

# HIV/AIDS INFORMATION RESOURCES

from the  
National Library of Medicine®

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## 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.



Find out more: <https://www.nlm.nih.gov>

**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**

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## 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.

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**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*.

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**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.

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**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.

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**PubMed**®— access to references for articles published in journals in the fields of medicine and the life sciences.

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**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**

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## 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.

**NIH** National Library of Medicine

PRODUCTS AND SERVICES ▾ RESOURCES FOR YOU ▾ EXPLORE NLM ▾ GRANTS AND FUNDING ▾

**Accelerating Biomedical Discovery and Data-Powered Health**

Search NLM

**Coronavirus Disease 2019 (COVID-19)**

Get rapid access to the NLM's GenBank sequence data at the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) data hub.

**In the News**

- The National Library of Medicine is Expanding Access to Coronavirus Literature through PubMed Central® (03/25/2020)
- COVID-19 Open Research Dataset (CORD-19) OSTP Release (03/16/2020)

**Additional NLM Resources:**

- Clinical studies related to the coronavirus disease (ClinicalTrials.gov)
- Find Latest Journal Article Citations (PubMed)
- Search the text mining collections (PubMed Central)

**PubMed**  
Citations for biomedical literature

**MedlinePlus**  
Reliable, up-to-date health information for you

**Open-i**  
An experimental multimedia search engine

**MeSH**  
Medical Subject Headings

**ClinicalTrials.gov**  
A database of clinical studies, worldwide

**BLAST**  
Basic Local Alignment Search Tool

**News and Highlights**

**Director's Blog**  
The New World Ahead

**In Focus**  
New Investigators on the NLM Block!

**NLM Announcements**  
Patricia Flatley Brennan Inducted into Medical and Biological Engineering Elite

**NCBI Insights**  
Recalculation of prokaryotic reference and representative genome assemblies

**Circulating Now**  
Screening the Nurse: Film, Fear, and Narrative from the 1940s to the 1970s

**Technical Bulletin**  
NLM Technical Bulletin, Mar-Apr 2020, NLM Webinar: Getting the Most Out of DOCLINE

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



## 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>
- Evaluating Internet Health Information: A Tutorial from the National Library of Medicine — <https://www.nlm.nih.gov/medlineplus/webeval/webeval.html>
- MedlinePlus—Evaluating Health Information — <https://www.nlm.nih.gov/medlineplus/evaluatinghealthinformation.html>

## **Section 3: AIDSsource**

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## AIDSsource

AIDSsource 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.

AIDSsource offers access to a comprehensive collection of HIV/AIDS-related resources reviewed and selected by expert information specialists and librarians. AIDSsource was developed by NLM to ensure that those seeking information about HIV/AIDS have a source of quality reviewed, current content. The mission of AIDSsource 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 AIDSsource website are organized by both topic of interest and audience.

A comprehensive Spanish version is also available (see <https://aids.nlm.nih.gov/espanol/>).

**AIDSsource**  
ONE SOURCE FOR HIV/AIDS INFORMATION

NIH U.S. National Library of Medicine **En Español**

> Home > About Us > Contact Us

**Browse HIV/AIDS Topics** Select Audience

### HIV/AIDS Information Resources from NLM: E-learning Training Course

The National Library of Medicine (NLM) offers free CME, CHES and MLA credits for the HIV/AIDS online training course. This self-paced course provides a comprehensive overview, interactive tour and guided practice to help you become familiar with searching for HIV/AIDS information from NLM and other trusted and reliable sources.  
[Read more >](#)

- Basic HIV/AIDS Information
- Community Engagement
- Funding Opportunities
- HIV Navigation Resources
- HIV Prevention
- HIV Treatment
- HIV-Related Conditions
- HIV/AIDS Policies and Organizational Programs
- Living with HIV/AIDS
- Medical Practice Guidelines
- Mobile Resources
- Multimedia
- Multiple Languages
- News Resources

<https://aids.nlm.nih.gov>

<https://aids.nlm.nih.gov/espanol>

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



## Organization and Topics

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

- ▶ **Basic HIV/AIDS Information** — fact sheets, general information, and organizations
- ▶ **Community Engagement** — features NLMs 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

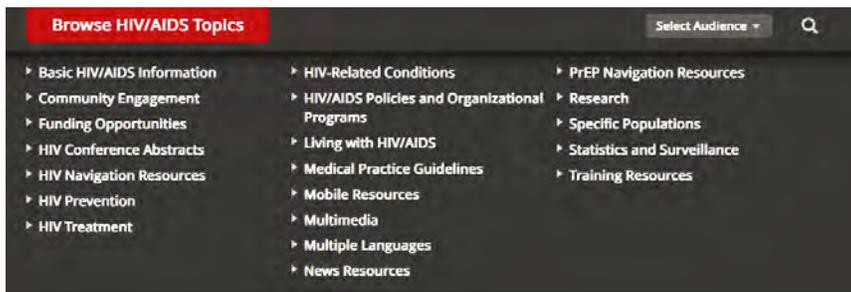


## Browsing Topics by Category

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

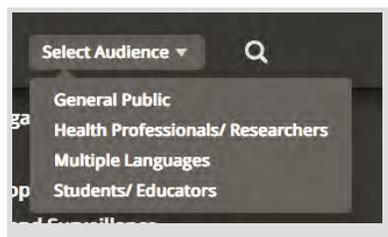


You can also click “Browse HIV/AIDS Topics” for quick access to specific topics.



## Browsing Topics by Audience

To view AIDSsource 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 AIDSsource

To search AIDSsource, 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.





## AIDSsource Spanish

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

## Stay Connected

### Mobile-Friendly

AIDSsource 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 AIDSsource contains links to apps and mobile websites.

### Twitter

AIDSsource 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 AIDSsource on Twitter, search for the AIDSsource hashtag ([#AIDSsource](https://twitter.com/hashtag/aidsource)) or visit <https://twitter.com/hashtag/aidsource>.



### Facebook

AIDSsource 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 health professionals and researchers working on HIV/AIDS-related research.**

Suggested Solution:

- Click the **Select Audience** drop-down at the top right of the page
- Click **Health Professionals/Researchers**
- 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.



**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

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## **Section 4: AIDSinfo®**

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**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>).

U.S. Department of Health and Human Services Contact Us | En Español

**AIDSinfo** OFFERING INFORMATION ON HIV/AIDS TREATMENT, PREVENTION, AND RESEARCH

Home Guidelines Understanding HIV/AIDS Drugs Clinical Trials Research

## Interim Guidance for COVID-19 and Persons with HIV is now available

[Click here](#)

photo: NIAID-RML

**Guidelines**

Federally approved HIV/AIDS medical practice guidelines

→ [View and Download the Guidelines](#)

**Understanding HIV/AIDS**

Links to HIV/AIDS-related resources

→ [Fact Sheets](#)

→ [Infographics](#)

**Drugs**

Information on FDA-approved HIV/AIDS and opportunistic infection drugs and investigational HIV/AIDS drugs

**Clinical Trials**

Search tool to find HIV/AIDS-related clinical trials

→ [HIV/AIDS-Related Clinical Trials](#)

→ [HIV Preventive Vaccines Clinical](#)

<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)

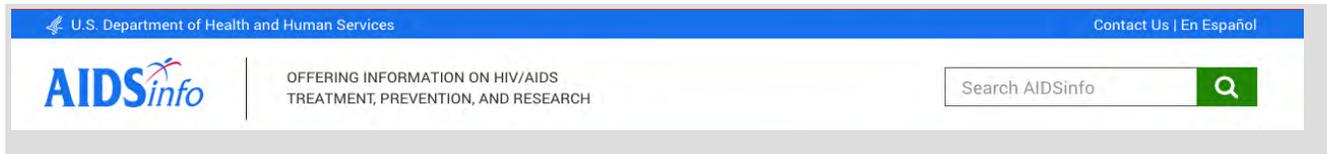
### Additional features offered in AIDSinfo include the following:

- ▶ **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

Subscribe to the AIDSinfo weekly e-newsletter, At-a-Glance, to receive notice of website updates, HIV/AIDS news, and HIV/AIDS medical practice 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>



## **i** Additional Resources

For further information, we recommend these additional resources:

- ▶ AIDSinfo Brochure — [https://aidsinfo.nih.gov/contentfiles/ai\\_brochure.pdf](https://aidsinfo.nih.gov/contentfiles/ai_brochure.pdf)
- ▶ AIDSinfo Glossary — [https://aidsinfo.nih.gov/contentfiles/GlossaryHIVrelatedTerms\\_English.pdf](https://aidsinfo.nih.gov/contentfiles/GlossaryHIVrelatedTerms_English.pdf)
- ▶ Glosario del VIH/SIDA — [https://aidsinfo.nih.gov/ContentFiles/SpanishGlossary\\_sp.pdf](https://aidsinfo.nih.gov/ContentFiles/SpanishGlossary_sp.pdf)
- ▶ infoSIDA — <https://infosida.nih.gov>
- ▶ AIDSinfo HIV/AIDS Feeds — <https://aidsinfo.nih.gov/rss>



## 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>
- Click **Guidelines**

The screenshot shows two main sections on the AIDSinfo website. The 'Guidelines' section, highlighted with a red border, features a photo of healthcare professionals and lists 'Federally approved HIV/AIDS medical practice guidelines' with links to 'View and Download the Guidelines', 'Adult ARV Guidelines', 'Pediatric ARV Guidelines', 'Perinatal Guidelines', 'Adult OI Guidelines', 'Pediatric OI Guidelines', and 'Interim Guidance for COVID-19 and Persons with HIV'. The 'Understanding HIV/AIDS' section, also highlighted with a red border, features a 3D illustration of HIV particles and lists links to 'Fact Sheets', 'Infographics', 'Glossary', and 'HIV/AIDS Awareness Days'.

- Click **Full Version** under **Adult and Adolescent ARV**

The screenshot shows a grid of guideline categories. The 'Adult and Adolescent ARV' category is highlighted with a red border. Below it, there are links for 'Brief Version' and 'Full Version'. Other categories include 'Perinatal', 'Pediatric Opportunistic Infection', 'COVID-19 and Persons with HIV (Interim Guidance)', and 'Caring for Persons with HIV in Disaster Areas', each with links for 'Brief Version' or 'Full Version'.

- Click **Initiation of Antiretroviral Therapy** in the left navigation menu

### What's New in the Guidelines?

- Panel Roster
- Financial Disclosure
- Introduction
- Baseline Evaluation
- Laboratory Testing
- Treatment Goals
- Initiation of Antiretroviral Therapy**
- Antiretroviral Therapy to Prevent Sexual Transmission of HIV (Treatment as Prevention)



- Review the section and click the **Home** tab to return to the AIDSinfo homepage

## Guidelines for the Use of Antiretroviral Agents in Adults and Adolescents with HIV

Home > Guidelines > Adult and Adolescent ARV > Initiation of Antiretroviral Therapy

The information in the brief version is excerpted directly from the full-text guidelines. The brief version is a compilation of the tables and boxed recommendations.

- What's New in the Guidelines?
- Panel Roster
- Financial Disclosure
- Introduction
- Baseline Evaluation
- + Laboratory Testing
- Treatment Goals
- Initiation of Antiretroviral Therapy**
- Antiretroviral Therapy to Prevent Sexual Transmission of HIV (Treatment as Prevention)
- What to Start

Brief Version
Full Version

### Initiation of Antiretroviral Therapy

Last Updated: December 18, 2013; Last Reviewed: December 18, 2019

Panel's Recommendations for Initiating Antiretroviral Therapy in Treatment-Naive Patients

Panel's Recommendations

- Antiretroviral therapy (ART) is recommended for all persons with HIV to reduce morbidity and mortality **(A)** and to prevent the transmission of HIV to others **(A)**.
- The Panel on Antiretroviral Guidelines for Adults and Adolescents recommends initiating ART immediately (or as soon as possible) after HIV diagnosis in order to increase the uptake of ART and linkage to care, decrease the time to viral suppression for individual patients, and improve the rate of virologic suppression among persons with HIV **(AII)**.
- When initiating ART, it is important to educate patients regarding the benefits of ART and to deploy strategies to optimize care engagement and treatment adherence **(AIII)**.

*Rating of Recommendations:* A = Strong; B = Moderate; C = Optional  
*Rating of Evidence:* I = Data from randomized controlled trials; II = Data from well-designed nonrandomized trials, or observational cohort studies with long-term clinical outcomes; III = Expert opinion



## Search Exercises

### Guidelines

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

Suggested Solution:

- |        |  |
|--------|--|
| Click  | <b>Guidelines</b> at the top of the page                                       |
| Click  | <b>Full Version</b> under <u>Caring for Persons with HIV in Disaster Areas</u> |
| Click  | <b>Full Guideline</b> under <u>Download Guidelines</u>                         |
| 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  | <b>Guidelines</b> at the top of the page  |
| Type   | <b>baseline evaluation</b> in the <u>Search</u> box under Guidelines Search                               |
| Click  | the Search button (  ) |
| Select | <b>Adult and Adolescent ARV</b> under <u>Refine Search</u>  |
| Click  | <b>Baseline Evaluation   Adult and Adolescent ARV</b>   |
| Review | the guidelines  |

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

Suggested Solution:

- |        |   |
|--------|---|
| Click  | <b>Guidelines</b> at the top of the page  |
| Click  | <b>Full Version</b> under <u>Prevention with Persons with HIV</u>                         |
| Review | the guidelines and then use the browser's <b>Back</b> button to return to <i>AIDSinfo</i> |



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

Suggested Solution:

- |        |  |
|--------|--|
| Click  | <b>Guidelines</b> at the top of the page   |
| Click  | the <b>first topic</b> under <b>News</b> at the bottom left of page  |
| Review | the information and use the browser's <b>Back</b> button to return to <b>Guidelines</b>  |
| Click  | <b>Email Updates</b> at the bottom of the page and follow the on-screen instructions to subscribe to <b>AIDSinfo At-a-Glance</b> |

**Exercise 5: Perform a Guideline search of your choice.**

## Understanding HIV/AIDS

**Exercise 6: Browse the fact sheets.**

Suggested Solution:

- |        |  |
|--------|--|
| Click  | <b>Understanding HIV/AIDS</b> at the top of the page                                 |
| Click  | <b>View Fact Sheets</b>  |
| Review | the fact sheet(s) of your choice   |
| Click  | the browser's <b>Back</b> button to return to the <b>Understanding HIV/AIDS</b> 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  | <b>Understanding HIV/AIDS</b> at the top of the page                                 |
| Click  | <b>View Fact Sheets</b>  |
| Click  | <b>HIV and Older Adults</b> under <b>HIV and Specific Populations</b>                |
| Review | the information provided   |
| Close  | the browser's <b>Back</b> button to return to the <b>Understanding HIV/AIDS</b> page |

**Exercise 8: Using the glossary, locate the definition of undetectable viral load.**

Suggested Solution:

- |        |  |
|--------|--|
| Click  | <b>Understanding HIV/AIDS</b> at the top of the page   |
| Click  | <b>Glossary</b>  |
| Type   | <b>undetectable viral load</b> in the <b>Search the Glossary</b> search box                                    |
| Click  | the <b>Search</b> button (  ) |
| Click  | <b>Undetectable Viral Load</b>   |
| Review | the definition   |

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

Suggested Solution:

- |        |  |
|--------|--|
| Click  | <b>Understanding HIV/AIDS</b> at the top of the page                                 |
| Click  | <b>Infographics</b>  |
| Click  | <b>HIV Treatment</b>   |
| Click  | <b>What's a Blip?</b> infographic  |
| Review | the information on blip  |
| Close  | the browser's <b>Back</b> button to return to the <b>Understanding HIV/AIDS</b> page |

**Exercise 10: View National HIV/AIDS Awareness days.**

Suggested Solution:

- |        |  |
|--------|--|
| Click  | <b>Understanding HIV/AIDS</b> at the top of the page                                 |
| Click  | <b>Awareness Day Pages</b>   |
| Review | HIV/AIDS Awareness Day(s) of your choice   |
| Close  | the browser's <b>Back</b> button to return to the <b>Understanding HIV/AIDS</b> 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
- 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  | <b>Clinical Trials</b>                                      |
| Type   | <b>oral candidiasis</b> in the <u>Search by Keyword</u> box |
| Click  | the <b>Search</b> 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  | <b>Clinical Trials</b>   |
| Click  | <b>Show More</b>   |
| Type   | <b>prevention</b> in the <u>Search</u> box                                       |
| Type   | <b>dapivirine</b> in the <u>Interventions</u> search box                         |
| Select | <b>Studies with Female Participants</b> from the <u>Gender</u> drop-down menu    |
| Click  | the <b>Search</b> button   |
| Review | the clinical trial record(s)   |
| Select | <b>Studies seeking new volunteers</b> from the <u>All Studies</u> 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  | <b>Clinical Trials</b>   |
| Click  | <b>Show More</b>   |
| Type   | <b>cognitive behavioral therapy</b> in the <u>Interventions</u> search box |
| Select | <b>Phase 3</b> in the <u>Phase:</u> search field                           |



- Click the **Search** button
- Review the clinical trial record(s)

**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  | <b>Research</b> at the top of the page                                       |
| Click  | Go to <u><a href="#">OAR's Resources for Researchers</a></u>                 |
| Review | a list of federal resources for researchers who work in HIV or related areas |
| Close  | the <b>browser to return</b> to the <i>AIDSinfo</i> page                     |

Disclaimer

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## **Section 5: [ClinicalTrials.gov](https://clinicaltrials.gov)®**

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## 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.

The screenshot displays the ClinicalTrials.gov homepage. At the top, the NLM logo and "U.S. National Library of Medicine" are visible, along with the site name "ClinicalTrials.gov" and navigation links: "Find Studies", "About Studies", "Submit Studies", "Resources", and "About Site". A blue banner states: "ClinicalTrials.gov is a database of privately and publicly funded clinical studies conducted around the world." Below this, a section titled "Explore 337,371 research studies in all 50 states and in 211 countries." includes a button for "See listed clinical studies related to the coronavirus disease (COVID-19)". A disclaimer notes that listing a study does not mean it has been evaluated by the U.S. Federal Government. A "Find a study" search form is prominent, with fields for "Status" (radio buttons for "Recruiting and not yet recruiting studies" and "All studies"), "Condition or disease", "Other terms", and "Country". A "Search" button and a link to "Advanced Search" are provided. At the bottom, there are three columns: "Patients and Families" (search for actively recruiting studies), "Researchers" (search for developments in your field), and "Study Record Managers" (learn about registering studies).

<https://clinicaltrials.gov>

## 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.

The screenshot shows the 'Find a study' search interface. At the top, it says 'Find a study (all fields optional)'. Below this, there are four main sections:

- Status**: A radio button selection with two options: 'Recruiting and not yet recruiting studies' (unselected) and 'All studies' (selected).
- Condition or disease**: A text input field with a placeholder '(For example: breast cancer)' and a clear 'X' button.
- Other terms**: A text input field with a placeholder '(For example: NCT number, drug name, investigator name)' and a clear 'X' button.
- Country**: A dropdown menu with a blue arrow icon and a clear 'X' button.

At the bottom left is a blue 'Search' button, and at the bottom center is a link for 'Advanced Search'.

**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.

U.S. National Library of Medicine  
**ClinicalTrials.gov**

[Find Studies](#) ▾ [About Studies](#) ▾ [Submit Studies](#) ▾ [Resources](#) ▾ [About Site](#) ▾

---

Home > Search Results

[Modify Search](#)
[Start Over](#)
+

---

13 Studies found for: **HIV | Thalidomide**

Also searched for **Acquired Immuno Deficiency Syndrome**. [See Search Details](#)

List

By Topic

On Map

Search Details

Hide Filters
Download 📄 Subscribe to RSS 📡

Showing: 1-10 of 13 studies
10 studies per page
Show/Hide Columns

**Filters**

[Apply](#) [Clear](#)

**Status**

Recruitment:

- Not yet recruiting
- Recruiting
- Enrolling by invitation
- Active, not recruiting
- Suspended
- Terminated
- Completed
- Withdrawn
- Unknown status

Expanded Access: +

**Eligibility Criteria**

Age:

years OR

Age Group:

- Child (birth-17)
- Adult (18-64)
- Older Adult (65+)

Sex:

- All
- Female
- Male

Accepts Healthy Volunteers

**Study Type** +

**Study Results** +

**Study Phase** +

**Funder Type** +

**Study Documents** +

Row	Saved	Status	Study Title	Conditions	Interventions	Locations
1	<input type="checkbox"/>	Completed	Compassionate Use Study of Two Dose Levels of <b>Thalidomide</b> in Adults With <b>HIV Wasting Syndrome</b>	<ul style="list-style-type: none"> <li>• HIV Infections</li> <li>• HIV Wasting Syndrome</li> </ul>	<ul style="list-style-type: none"> <li>• Drug: <b>Thalidomide</b></li> </ul>	<ul style="list-style-type: none"> <li>• Celgene Corp Warren, New Jersey, United States</li> </ul>
2	<input type="checkbox"/>	Completed	Further Evaluation of <b>Thalidomide's</b> Ability to Potentiate the Immune Response to <b>HIV-Infected Patients</b>	<ul style="list-style-type: none"> <li>• HIV Infections</li> </ul>	<ul style="list-style-type: none"> <li>• Drug: <b>Thalidomide</b></li> </ul>	<ul style="list-style-type: none"> <li>• Ochsner Clinic New Orleans, Louisiana, United States</li> </ul>
3	<input type="checkbox"/>	Completed	Using the Drug <b>Thalidomide</b> to Stimulate T Cells in <b>HIV-Infected People</b>	<ul style="list-style-type: none"> <li>• HIV Infections</li> </ul>	<ul style="list-style-type: none"> <li>• Drug: <b>Thalidomide</b></li> <li>• Drug: <b>Thalidomide</b> placebo</li> </ul>	<ul style="list-style-type: none"> <li>• University of Miami School of Medicine Miami, Florida, United States</li> </ul>
4	<input type="checkbox"/>	Completed	A Phase II, Parallel Group, Randomized, Placebo-Controlled Study of the Safety and Efficacy of <b>Thalidomide</b> in Reducing Weight Loss in Adults With <b>HIV Wasting Syndrome</b>	<ul style="list-style-type: none"> <li>• HIV Infections</li> <li>• HIV Wasting Syndrome</li> </ul>	<ul style="list-style-type: none"> <li>• Drug: <b>Thalidomide</b></li> </ul>	<ul style="list-style-type: none"> <li>• Marin County Specialty Clinic Greenbrae, California, United States</li> <li>• AIDS Community Research</li> </ul>
5	<input type="checkbox"/>	Completed	A Study of <b>Thalidomide</b> in <b>HIV-Infected Patients Who Are Receiving HAART</b>	<ul style="list-style-type: none"> <li>• HIV Infections</li> </ul>	<ul style="list-style-type: none"> <li>• Drug: <b>Thalidomide</b></li> </ul>	<ul style="list-style-type: none"> <li>• UCSD Med Ctr - Owen Clinic San Diego, California, United States</li> <li>• (and 10 more...)</li> </ul>
6	<input type="checkbox"/>	Completed	A Phase I, Placebo-Controlled, Dose-Escalation Study of the Safety, Tolerability, and Pharmacokinetics of <b>Thalidomide</b> in Subjects With <b>HIV-1 Infection</b>	<ul style="list-style-type: none"> <li>• HIV Infections</li> </ul>	<ul style="list-style-type: none"> <li>• Drug: <b>Thalidomide</b></li> </ul>	<ul style="list-style-type: none"> <li>• University of Colorado Hospital CRS Aurora, Colorado, United States</li> <li>• University of Minnesota, ACTU Minneapolis, Minnesota, United States</li> <li>• Memorial Sloan-Kettering Cancer Ctr. New York, New York, United States</li> <li>• (and 3 more...)</li> </ul>



## 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.

The screenshot shows the ClinicalTrials.gov website interface. At the top, there is a navigation bar with links for 'Find Studies', 'About Studies', 'Submit Studies', 'Resources', and 'About Site'. The main header includes the NIH logo and the text 'U.S. National Library of Medicine ClinicalTrials.gov'. Below this, there are breadcrumb links: 'Home > Search Results > Study Record Detail' and a 'Save this study' checkbox.

The study title is 'Using the Drug Thalidomide to Stimulate T Cells in HIV-Infected People'. It is identified as 'Trial record 3 of 13 for: HIV | Thalidomide'. Navigation links for 'Previous Study', 'Return to List', and 'Next Study' are provided.

A warning box states: 'The safety and scientific validity of this study is the responsibility of the study sponsor and investigators. Listing a study does not mean it has been evaluated by the U.S. Federal Government. Read our disclaimer for details.' To the right, the ClinicalTrials.gov Identifier is NCT00053430. A red box highlights recruitment status: 'Recruitment Status: Completed', 'First Posted: January 30, 2003', and 'Last Update Posted: August 7, 2009'.

The sponsor is the National Institute of Allergy and Infectious Diseases (NIAID). Information is provided by NIAID.

Navigation tabs include 'Study Details', 'Tabular View', 'No Results Posted', 'Disclaimer', and 'How to Read a Study Record'.

**Study Description**

**Brief Summary:** 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.

Condition or disease	Intervention/treatment	Phase
HIV Infections	Drug: Thalidomide Drug: Thalidomide placebo	Phase 2

**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, costimulatory T cell interactions are impaired. The immune modulatory drug thalidomide was recently found to costimulate T cells. Pharmacologic T cell costimulation may compensate for the T cell deficiencies in people with HIV disease and improve immune function. This study will test whether thalidomide treatment enhances HIV and cytomegalovirus (CMV)-specific immunity in patients with HIV and CMV, and will evaluate the effect of thalidomide on HIV replication. 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.

**Study Design**

- Study Type: Interventional (Clinical Trial)
- Actual Enrollment: 40 participants
- Allocation: Randomized
- Intervention Model: Parallel Assignment
- Masking: Double (Participant, Care Provider)
- Primary Purpose: Treatment
- Official Title: Pharmacologic T Cell Costimulation in HIV Disease
- Study Start Date: April 2001
- Actual Primary Completion Date: August 2005
- Actual Study Completion Date: February 2006



## Additional Resources

For further information, we recommend these additional resources:

- ▶ Prescription for Success: Consumer Health on the Web —  
<https://nmlm.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 —  
[https://www.nlm.nih.gov/databases/alerts/clinical\\_alerts.html](https://www.nlm.nih.gov/databases/alerts/clinical_alerts.html)

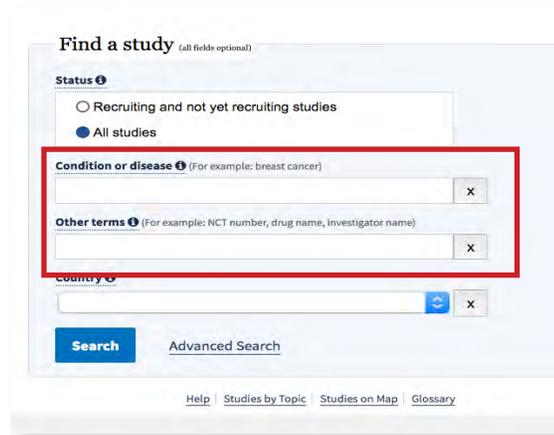


## ClinicalTrials.gov® Search Exercises

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

Suggested Solution:

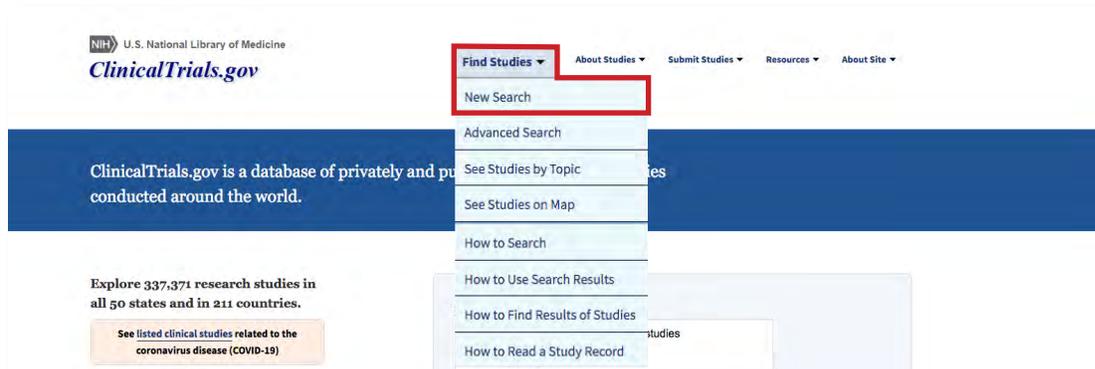
- Go to <https://clinicaltrials.gov>
- Type HIV in the **Condition/Disease: Search** box
- Type thalidomide in the **Other Terms: Search** box
- Click Search



- Review record(s) of your choice

Row	Saved	Status	Study Title	Conditions	Interventions	Locations
1	<input type="checkbox"/>	Completed	Compassionate Use Study of Two Dose Levels of <b>Thalidomide</b> in Adults With HIV Wasting Syndrome	<ul style="list-style-type: none"> <li>• HIV Infections</li> <li>• HIV Wasting Syndrome</li> </ul>	<ul style="list-style-type: none"> <li>• Drug: <b>Thalidomide</b></li> </ul>	<ul style="list-style-type: none"> <li>• Celgene Corp Warren, New Jersey, United States</li> </ul>
2	<input type="checkbox"/>	Completed	Further Evaluation of <b>Thalidomide's</b> Ability to Potentiate the Immune Response to HIV-Infected Patients	<ul style="list-style-type: none"> <li>• HIV Infections</li> </ul>	<ul style="list-style-type: none"> <li>• Drug: <b>Thalidomide</b></li> </ul>	<ul style="list-style-type: none"> <li>• Ochsner Clinic New Orleans, Louisiana, United States</li> </ul>
3	<input type="checkbox"/>	Completed	Using the Drug <b>Thalidomide</b> to Stimulate T Cells in HIV-Infected People	<ul style="list-style-type: none"> <li>• HIV Infections</li> </ul>	<ul style="list-style-type: none"> <li>• Drug: <b>Thalidomide</b></li> <li>• Drug: <b>Thalidomide</b></li> </ul>	<ul style="list-style-type: none"> <li>• University of Miami School of Medicine</li> </ul>

- 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 <b>country or region</b> 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	<b>Find Studies</b>
Click	<b>Advanced Search</b>
Type	<b>hepatitis c</b> in the <u>Condition/Disease</u> box
Type	<b>ribavirin</b> in the <u>Intervention/Treatment</u> box
Click	<b>Search</b>
Review	record(s) of your choice
Select	the <b>Recruiting</b> checkbox under <u>Status : Recruitment</u> in the filters section to the left of the page
Click	<b>Apply</b>
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	<b>Find Studies</b>
Click	<b>See Studies by Topic</b>
Click	By <b>Category</b> under <u>Dietary Supplements</u> in the table of contents
Click	<b>Herbal and Botanical</b>
Type	<b>Saw Palmetto</b> in the <u>Find in table</u> box
Click	<b>Saw Palmetto</b>
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  | <b>About Studies</b>   |
| Click  | <b>Learn About Studies</b>   |
| Click  | <b>Considerations for Participation</b> under <u><b>Contents</b></u>                                 |
| Review | the information  |
| Click  | <b>Glossary of Common Site Terms</b> on the left side the page under the <u><b>About Studies</b></u> |
| Scroll | to <b>Observational Study</b>  |
| Review | the definition of <b>observational study</b>   |

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

Suggested Solution:

- |        |  |
|--------|--|
| Click  | <b>Glossary of Common Site Terms</b> under the <u><b>About Studies</b></u> |
| Scroll | to the phrase <b>Human subjects protection review board</b>                |
| Review | the definition of a <b>human subjects protection review board</b>          |
| Scroll | to the word <b>Protocol</b>  |
| Review | the definition of a <b>protocol</b>  |

## **Section 6: MedlinePlus®**

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## 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.

The screenshot shows the MedlinePlus search results page for the query "diabetes". The page features the MedlinePlus logo and navigation links. A search box contains the word "diabetes" with a "GO" button. Below the search box are navigation links for "Health Topics", "Drugs & Supplements", "Videos & Tools", and "Español". The main content area displays "Search Results" and a "Refine by Type" sidebar. The sidebar lists various content types with their respective counts, such as "All Results (5,530)", "Health Topics (228)", "Medical Encyclopedia (713)", "External Health Links (2,603)", "Medical Tests (65)", "Drugs and Supplements (542)", "National Institutes of Health (1,043)", "MedlinePlus Magazine (83)", "Healthy Recipes", and "Multiple Languages (38)". Below the sidebar, there are two "Refine by Format" sections: "All Results (5,530)" with sub-options for "PDF (159)", "Images (31)", and "Videos (25)". The main content area displays a detailed article snippet for "Diabetes" with a blue header, a small image of a person using a glucose meter, and a "Read more" link. Below the article snippet, it shows "Results 1 – 10 of 4,368 for diabetes" and a list of results starting with "1. Diabetes (National Library of Medicine)".

## 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.

The screenshot shows the top portion of the MedlinePlus website in Spanish. It features the MedlinePlus logo and navigation links. A search box contains the word "diabetes" with a "GO" button. Below the search box are navigation links for "Health Topics", "Drugs & Supplements", "Videos & Tools", and "Español".



## 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.

The screenshot shows the MedlinePlus website interface. At the top, there is a search bar and navigation links. The main navigation menu is highlighted with a red box, showing 'Health Topics', 'Drugs & Supplements', and 'Videos & Tools'. Below this, the 'Health Topics' section is displayed, featuring a list of topics categorized by 'Body Location/Systems', 'Disorders and Conditions', 'Demographic Groups', and 'Diagnosis and Therapy'. The 'Body Location/Systems' category includes items like Blood, Heart and Circulation; Bones, Joints and Muscles; Brain and Nerves; Digestive System; Ear, Nose and Throat; Endocrine System; Eyes and Vision; Immune System; Kidneys and Urinary System; Lungs and Breathing; Mouth and Teeth; Skin, Hair and Nails; Female Reproductive System; and Male Reproductive System. The 'Disorders and Conditions' category includes Cancers, Diabetes Mellitus, Genetics/Birth Defects, Infections, Injuries and Wounds, Mental Health and Behavior, Metabolic Problems, Poisoning, Toxicology, Environmental Health, Pregnancy and Reproduction, and Substance Abuse Problems. The 'Demographic Groups' category includes Children and Teenagers, Men, Older Adults, Population Groups, and Women. The 'Diagnosis and Therapy' category includes Complementary and Alternative Therapies, Diagnostic Tests, Drug Therapy, Surgery and Rehabilitation, Symptoms, and Transplantation and Donation.

## 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>
- ▶ Evaluating Internet Health Information: A Tutorial from the National Library of Medicine — <https://medlineplus.gov/webeval>
- ▶ Guide to Healthy Web Surfing — <https://medlineplus.gov/healthywebsurfing.html>
- ▶ Information for Librarians and Trainers — <https://medlineplus.gov/training>

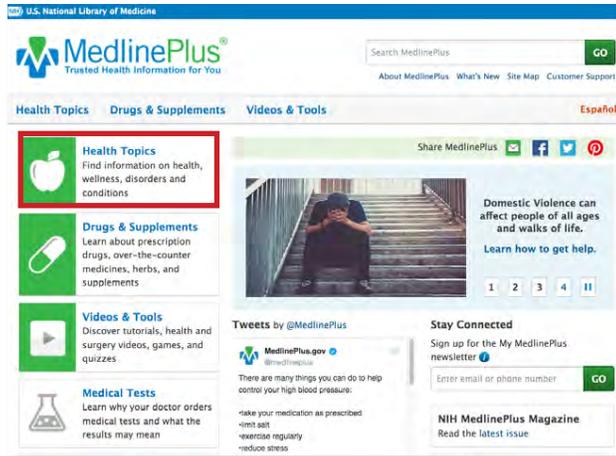


## MedlinePlus® Search Exercises

**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 **Start Here** under **On this page**





- Click **HIV/AIDS NIH** (National Institute of Allergy and Infectious Diseases) under **Start Here**

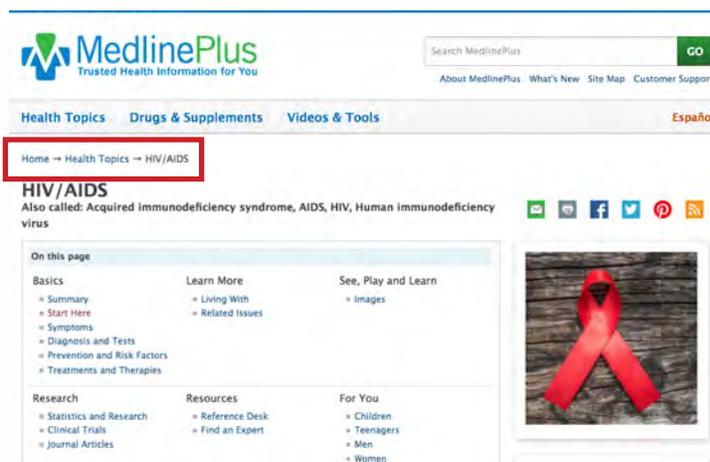
### Start Here

- **HIV / AIDS NIH** (National Institute of Allergy and Infectious Diseases)
- **HIV and AIDS: Know the Facts NIH** (National Institutes of Health) Also in Spanish
- **HIV Basics** (Centers for Disease Control and Prevention)
- **HIV/AIDS** (Mayo Foundation for Medical Education and Research)
- **What Are HIV and AIDS?** (AIDS.gov)

- 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:

Type	caregiver stress in the <a href="#">Search MedlinePlus</a> search box
Click	<b>Go</b>
Click	a topic(s) of your choice
Review	the information retrieved and close the pop-up window

#### 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:

Click	<b>Health Topics</b>
Click	<b>D</b> under <a href="#">Find topics A-Z</a>
Click	<b>Dental Health</b> from the alphabetical list of topics
Review	the information
Click	<b>Patient Handouts</b> under <a href="#">For You</a>

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

Suggested Solution:

Click	<b>Health Topics</b>
Click	<b>A</b> under <a href="#">Find topics A-Z</a>
Click	<b>AIDS see HIV/AIDS</b> from the alphabetical list
Click	<b>Older Adults</b> under <a href="#">For You</a>
Click	<b>HIV, AIDS, and Older People</b> under <a href="#">Older Adults</a>
Close	NIH National Institute on Aging window and return to the <a href="#">MedlinePlus HIV/AIDS page</a>



**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	<b>Health Topics</b>
Click	<b>F</b> under <b><u>Find topics A-Z</u></b>
Click	<b>Flu Shot</b> from the alphabetical list
Click	<b>Specifics</b> under <b><u>Learn More</u></b>
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	<b>Health Topics</b>
Click	<b>A</b> under <b><u>Find topics A-Z</u></b>
Click	<b>Alternative Medicine</b> see <b>Complementary and Integrative Medicine</b> from the alphabetical list
Click	<b>Are You Considering a Complementary Health Approach?</b> under <b><u>Start Here</u></b>
Review	the information retrieved
Close	the tab or pop-up window
Review	the additional information on the <b>MedlinePlus Complementary and Integrative Medicine</b> 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:

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

### 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	<b>Drugs &amp; Supplements</b>
Click	<b>All herbs and supplements</b>
Click	<b>Astragalus NIH (National Center for Complementary and Integrative Health)</b> in the alphabetical list
Scroll	to <b>What do we Know about Safety</b>
Review	the information retrieved
Close	the NCCIH window and return to the MedlinePlus <b>Herbs and Supplements</b> page
Repeat	the steps for: Cat's Claw, Goldenseal, and Tea Tree Oil.

**Exercise 11: Locate the HIV/AIDS Medicines page.**

Suggested Solution:

- |        |   |
|--------|---|
| Click  | <b>Drugs &amp; Supplements</b>                        |
| Click  | <b>HIV/AIDS Medicines</b> under <u>Related Topics</u> |
| 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 | <b>Videos &amp; Tools</b>  |
| Click | <b>Health Videos</b>   |
| Click | <b>Immune response</b> from the alphabetical listing and follow the on-screen instructions                 |
| Click | <b>Immune System and Disorders</b> to the right of the page under <u>Related MedlinePlus Health Topics</u> |
| Click | <b>Health Check Tools</b> under <u>See, Play and Learn</u>   |
| Click | <b>Immune System Quiz</b> (Nemours Foundation)   |
| Close | the pop-up window and return to the MedlinePlus <b>Immune System and Disorders</b> page                    |

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

Suggested Solution:

- |       |   |
|-------|---|
| Click | <b>Videos &amp; Tools</b>   |
| Type  | <b>Drugs and HIV</b> in the <u>Search all Videos &amp; Tutorials</u> search box         |
| Click | <b>Go</b>   |
| Click | the video <b>Drugs Facts</b> NIH (National Institute on Drug Abuse)                     |
| Click | any of the videos of your choice on the right side of the page under <b>View Videos</b> |



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:

- 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**

Disclaimer

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## **Section 7: PubMed®**

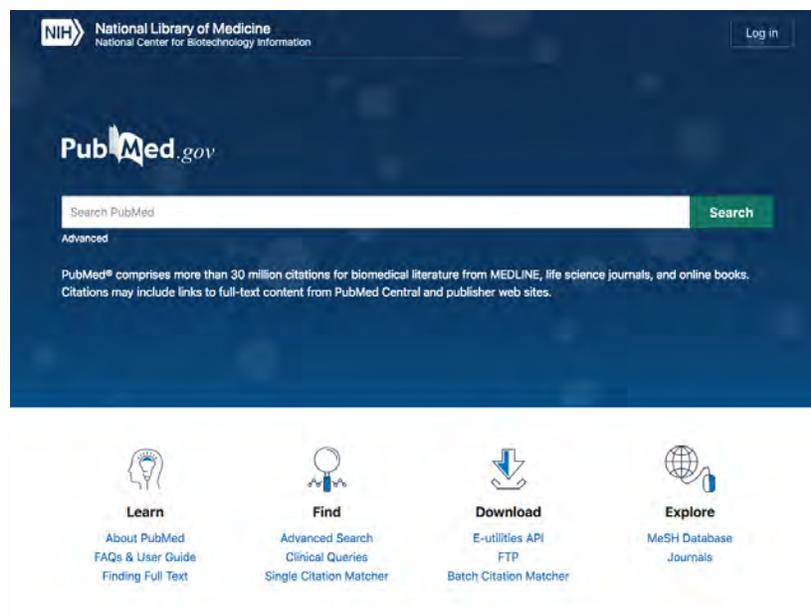
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## PubMed®

**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.



<https://pubmed.ncbi.nlm.nih.gov>

## 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

The screenshot shows the PubMed search interface. At the top, the NIH logo and 'National Library of Medicine' are visible. The search box contains 'hiv infection' and the 'Search' button is highlighted. Below the search box, there are options for 'Advanced', 'Create alert', and 'Create RSS'. The results section shows '325,412 results' and a 'RESULTS BY YEAR' bar chart. Two articles are listed:

- The natural history of HIV infection.** Sabin CA, Lundgren JD. *Curr Opin HIV AIDS*. 2013 Jul;8(4):311-7. doi: 10.1097/COH.0b013e328361fa66. PMID: 23888562 [Free PMC article](#). [Review](#).  
RECENT FINDINGS: The natural course of untreated HIV infection varies widely with some HIV-positive individuals able to maintain high CD4 cell counts and/or suppressed viral load in the absence of ART. ...SUMMARY: A better understanding of the relative influences of viral, host, and environmental factors on the natural course of HIV infection has the potential to identify novel targets for intervention to prevent and treat HIV-infected persons....
- HIV infection and coronary heart disease: mechanisms and management.** Hsue PY, Waters DD. *Nat Rev Cardiol*. 2019 Dec;16(12):745-758. doi: 10.1038/s41569-019-0219-9. Epub 2019 Jun 10. PMID: 31182833 [Free article](#). [Review](#).  
Antiretroviral therapy has largely transformed HIV infection into a chronic disease condition. As such, physicians and other providers caring for individuals living with HIV infection need to be aware of the potential cardiovascular complications of HIV infection and the nuances of how HIV infection increases the risk of cardiovascular diseases, including acute myocardial infarction, stroke, peripheral artery disease, heart failure and sudden cardiac death, as well as how to select available therapies to reduce this risk. ...We also discuss the mechanisms underlying HIV-associated atherosclerotic cardiovascular disease, such as the high rates of traditional cardiovascular risk factors in patients with HIV infection and HIV-related factors, including the use of antiretroviral therapy and chronic inflammation in the setting of effectively treated HIV infection.

## 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**.

The screenshot shows the 'MYNCBI FILTERS' sidebar. It includes a 'RESULTS BY YEAR' bar chart, 'TEXT AVAILABILITY' options (Abstract, Free full text, Full text), 'ARTICLE ATTRIBUTE' (Associated data), 'ARTICLE TYPE' (Books and Documents, Clinical Trial, Meta-Analysis, Randomized Controlled Trial, Review, Systematic Reviews), and 'PUBLICATION DATE' options (1 year, 5 years, 10 years). At the bottom, there are buttons for 'Additional filters' and 'Reset all filters'.



## 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.

NIH National Library of Medicine  
National Center for Biotechnology Information

PubMed.gov  
User Guide

PubMed Advanced Search Builder

Add terms to the query box

All Fields Enter a search term ADD Show Index

Query box

Enter / edit your search query here Search

History and Search Details Download Delete

Search	Actions	Details	Query	Results	Time
#1	...	>	Search: hiv infection	325,412	14:17:07

Showing 1 to 1 of 1 entries



## 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.

## Stay Connected

### 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](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.

<https://www.ncbi.nlm.nih.gov/feed/rss.cgi?ChanKey=PubMedNews>

## Additional Resources

For further information, we recommend these additional resources:

- ▶ PubMed Online Training — <https://www.nlm.nih.gov/bsd/disted/pubmed.html>
- ▶ PubMed User Guide — <https://pubmed.ncbi.nlm.nih.gov/help>
- ▶ 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:

MEDLINE®	MEDLINEPLUS®
Database	Directory
Journal citations	Selected links to web resources
Professional biomedical literature	Web resources with authoritative health information
Health professionals	Patients, families, and consumers
Clinical terminology	Easy-to-understand language
Searchable database	Browse and search
Value added: <ul style="list-style-type: none"> <li>• Can be searched for free</li> <li>• Selected full-text articles</li> <li>• Links to some full-text journal articles via publishers' web pages</li> <li>• Selected consumer health journals</li> <li>• Links to MedlinePlus</li> <li>• Topic-specific queries</li> <li>• Advanced search builder</li> </ul>	Value added: <ul style="list-style-type: none"> <li>• Drug information</li> <li>• Medical encyclopedia</li> <li>• Links to other web resources</li> <li>• Link to MEDLINE searches</li> <li>• Spanish version</li> <li>• Health videos</li> <li>• Multiple languages</li> </ul>



## PubMed® Search Exercises

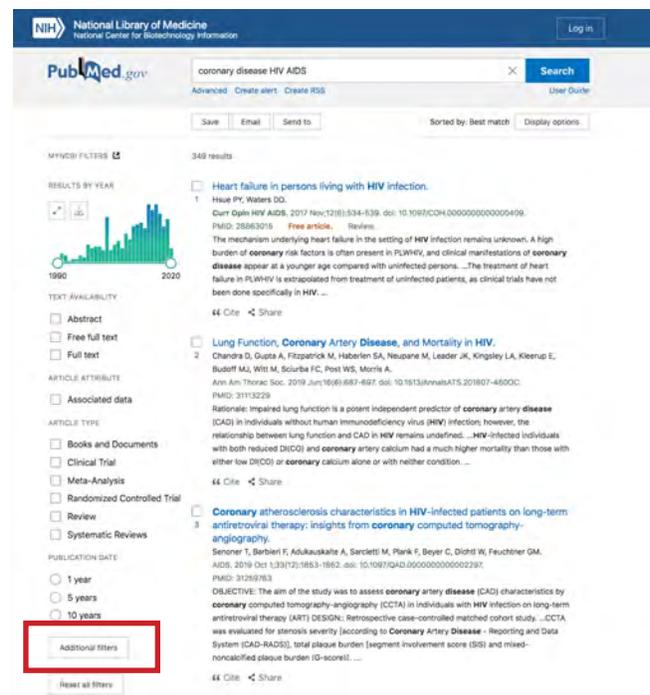
### Search Example: What information has been written about the correlation between coronary disease and HIV/AIDS?

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

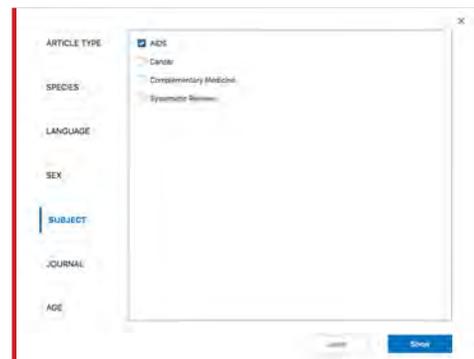


- Select **AIDS** checkbox
- Click **Show**

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.

NIH National Library of Medicine  
National Center for Biotechnology Information

PubMed.gov

coronary disease HIV AIDS

Advanced Create alert Create RSS

Search

User Guide

Save Email Send to

Sorted by: Best match Display options

MYNCBI FILTERS

RESULTS BY YEAR

1990 2020

TEXT AVAILABILITY

Abstract

Free full text

Full text

ARTICLE ATTRIBUTE

Associated data

ARTICLE TYPE

Books and Documents

Clinical Trial

Meta-Analysis

Randomized Controlled Trial

Review

Systematic Reviews

PUBLICATION DATE

1 year

5 years

10 years

SUBJECT

AIDS

Additional filters

340 results

Filters applied: AIDS. Clear all

Heart failure in persons living with HIV infection.

1 Hsue PY, Waters DD.  
Curr Opin HIV AIDS. 2017 Nov;12(6):534-539. doi: 10.1097/COH.0000000000000409.  
PMID: 28883076 Free article. Review

The mechanism underlying heart failure in the setting of HIV infection remains unknown. A high burden of coronary risk factors is often present in PLWHIV, and clinical manifestations of coronary disease appear at a younger age compared with uninfected persons. ...The treatment of heart failure in PLWHIV is extrapolated from treatment of uninfected patients, as clinical trials have not been done specifically in HIV. ...

44 Cite < Share

Lung Function, Coronary Artery Disease, and Mortality in HIV.

2 Chandra D, Gupta A, Fitzpatrick M, Haberlem SA, Neupane M, Leader JK, Kingsley LA, Kleerup E, Budoff MJ, Witt M, Sclurba FC, Post WS, Morris A.  
Ann Am Thorac Soc. 2019 Jun;16(6):687-697. doi: 10.1513/AnnalsATS.201807-460OC.  
PMID: 31133229

Rationale: impaired lung function is a potent independent predictor of coronary artery disease (CAD) in individuals without human immunodeficiency virus (HIV) infection; however, the relationship between lung function and CAD in HIV remains undefined. ...HIV-infected individuals with both reduced DLCO and coronary artery calcium had a much higher mortality than those with either low DLCO or coronary calcium alone or with neither condition. ...

44 Cite < Share

Coronary atherosclerosis characteristics in HIV-infected patients on long-term antiretroviral therapy: insights from coronary computed tomography-angiography

3 Senoner T, Barbieri F, Adjuikauke A, Sacchetti M, Plank F, Beyer C, Dichtl W, Feuchtnel GM.  
AIDS. 2019 Oct 1;33(12):1853-1862. doi: 10.1097/QAD.0000000000002287.  
PMID: 31259763

OBJECTIVE: The aim of the study was to assess coronary artery disease (CAD) characteristics by coronary computed tomography-angiography (CCTA) in individuals with HIV infection on long-term antiretroviral therapy (ART) DESIGN: Retrospective case-controlled matched cohort study. ...CCTA was evaluated for stenosis severity (according to Coronary Artery Disease - Reporting and Data System [CAD-RADS]), total plaque burden (segment involvement score [SIS] and mixed-noncalcified plaque burden [S-score]). ...

44 Cite < Share



## Search Exercises

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

Suggested Solution:

Type	<b>social media</b> in the <u>Search</u> box
Click	<b>Search</b>
Click	<b>Additional filters</b>
Select	<b>Subject</b> in the <u>additional filters</u> pop-up box
Select	<b>AIDS</b>
Click	<b>Show</b>
Select	<b>AIDS</b> under <u>Subjects</u>
Review	the citation(s) retrieved
Click	Click the <b>X</b> in the <b>search</b> 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	<b>flu vaccine</b> in the <u>Search</u> box
Click	<b>Search</b>
Review	the citation(s) retrieved
Click	Click the <b>X</b> in the <b>search</b> 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	<b>zika HIV</b> in the <u>Search</u> box
Click	<b>Search</b>
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 <u>Search</u> box
Click	<b>Search</b>
Click	<b>Additional filters</b>
Select	<b>Sex</b>
Select	<b>Female</b>
Click	<b>Show</b>
Click	<b>Female</b> under <u>Sex</u>
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 <u>Search</u> box
Click	<b>Search</b>
Click	<b>Sorted by: Best match</b> <u>under the search box to the right</u>
Select	<b>Most recent</b> from the <u>Sort by</u> 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:

Type	nevirapine mother child transmission in the <a href="#">Search</a> box
Click	<b>Search</b>
Click	<b>Additional filters</b>
Select	<b>Language</b>
Select	<b>English</b>
Click	<b>Show</b>
Select	<b>English</b> under <a href="#">Language</a>
Click	<b>5 years</b> under <a href="#">Publication Dates</a>
Review	the citation(s) retrieved

**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 <a href="#">Search</a> box
Click	<b>Search</b>
Click	<b>Additional filters</b>
Select	<b>Age</b>
Click	<b>Child: birth-18 years</b>
Click	<b>Show</b>
Click	<b>Child: birth-18 years</b> under <b>Age</b>
Review	the citation(s)



**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	<b>Advanced</b> under the search box
Type	<b>African American faith</b> in the <u>Search</u> box
Click	<b>Add</b>
Select	<b>Author</b> from the All Fields drop-down menu
Type	<b>wooster j</b> in the <u>Author</u> search box
Click	<b>And</b>
Click	<b>Search</b>
Review	the citation

**Exercise 9: Locate articles on the impact of cultural competency in HIV/AIDS care and prevention. Next, e-mail a record to yourself in text form.**

Suggested Solution:

Type	<b>cultural competency</b> in the <u>Search box</u>
Click	<b>Search</b>
Click	the <b>checkbox</b> to the left of a record of your choice
Select	the <b>Email button</b> below the <u>Search box</u>
Complete	the required fields
Click	<b>Send email</b>



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	<b>PubMed Central</b> at the bottom of the homepage under <b>Popular</b>
Type	<b>improved adherence haart</b> in the <b>Search</b> box
Click	<b>Search</b>
Review	the citation(s) and full-text article(s)
Click	<b>PubMed</b> at the bottom of the page under <b>Popular</b>

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

Suggested Solution:

Click	<b>Log in</b> at the top right of the PubMed page
Click	<b>Sign up</b> at the bottom of the page next to <b>New here?</b>
Click	<b>Create new NCBI Account</b>
Follow	the directions for setting up a username and password
Click	<b>Sign up</b>
Type	<b>structured antiretroviral therapy interruption</b> in the <b>Search</b> box
Click	<b>Search</b>
Click	<b>Create alert</b> at the top of the screen below the search box
Select	the e-mail update scheduling settings of your choice (optional)
Click	<b>Save</b> 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**

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## 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 Information and Data: A Training Manual — <https://phpartners.org/pdf/phmanual.pdf>
- ▶ National Information Center on Health Services Research & Health Care Technology (NICHSR) — <https://www.nlm.nih.gov/hsrph.html>

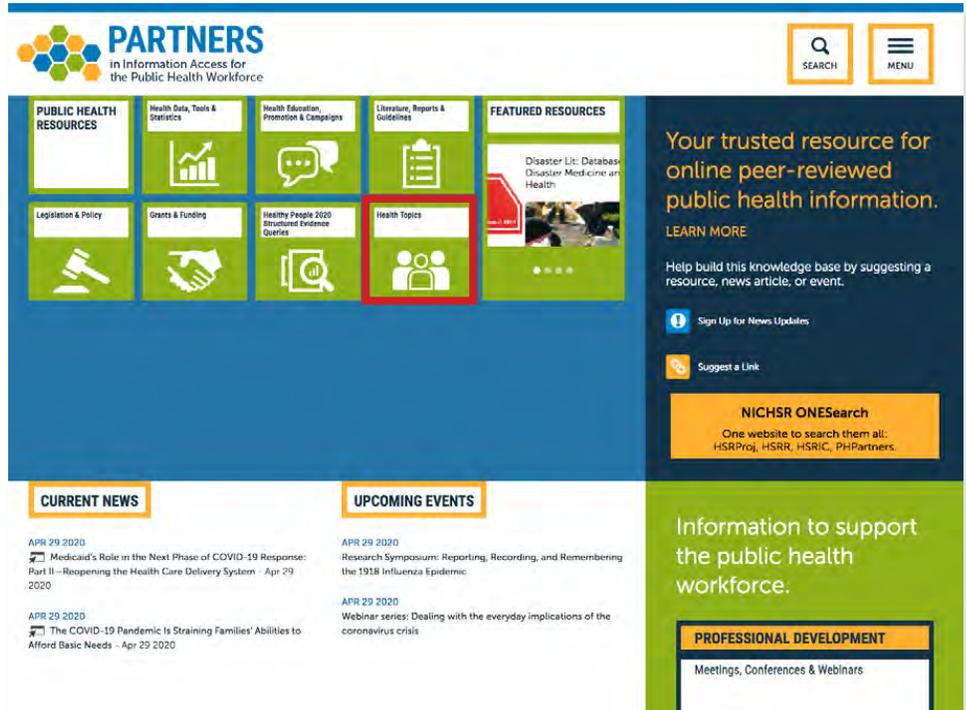


## Public Health Partners Search Exercises

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, ADAP 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 (National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention (NCHHSTP), CDC)

- Review the information.
- **Close the browser to return** to the Public Health Partners (PHP)

The screenshot shows the 'State Health Facts' website interface. The main heading is 'HIV/AIDS'. Below the heading, there is a search bar and a 'SUPPORT OUR WORK' button. The page is divided into two main sections: 'REFINE RESULTS' on the left and 'HIV/AIDS Indicators' on the right. The 'REFINE RESULTS' section includes a dropdown menu for 'HIV/AIDS' and a list of subcategories such as 'HIV Diagnoses', 'AIDS Diagnoses', 'Persons Living with HIV', 'Mortality', 'HIV/AIDS Funding', 'AIDS Drug Assistance Program (ADAP)', 'HIV and Medicaid', 'HIV Testing', 'HIV Prevention Programs & Related Policies', and 'Other HIV/AIDS-Related Policies'. The 'HIV/AIDS Indicators' section is organized into three main categories: 'HIV DIAGNOSES', 'AIDS DIAGNOSES', and 'PERSONS LIVING WITH HIV'. Each category has a list of sub-indicators with expandable arrows.

The screenshot shows the 'PARTNERS' website header and a navigation menu. The header includes the 'PARTNERS' logo and the tagline 'in Information Access for the Public Health Workforce'. The navigation menu is located on the right side of the page and includes the following items: Home, About, News, Professional Development, Meetings, Conferences & Webinars, Training & Education, Jobs & Careers, Fellowships & Internships, Certification & Credentialing, Competencies, Accreditation & Performance, New Worker Development Programs, Workforce Projects & Research, Graduate Education, Tools & Resources, Leadership Training, Healthy People 2020 SEQs, Public Health Resources, and Health Topics. A 'MENU' button is located at the top right of the navigation menu.

- 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:

Type	<b>healthy people 2020</b> in the <u>Search</u> box
Click	<b>Search</b>
Review	the resources retrieved that interest you
Click	<b>Menu</b> at the top of the PHP page
Click	<b>Home</b> to prepare for the next search



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:

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

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

Suggested Solution:

Click	<b>Health Topics</b> from the homepage
Click	<b>HIV/AIDS</b>
Click	<b>Discussion and E-mail Lists</b> in the list of topics under <u>HIV/AIDS</u>
Review	the resource(s) of your choice and follow the online instructions to subscribe (optional)
Click	<b>Menu</b> at the top of the PHP page
Click	<b>Home</b> to prepare for the next search

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

Suggested Solution:

- Click **Health Topics** from the homepage
- Click **Nutrition**
- 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
- Click **Menu** at the top of the PHP page
- Click **Home** to prepare for the next search

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

Suggested Solution:

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

**Exercise 6: Find resources for state health data.**

Suggested Solution:

- Select **Health Data, Tools and Statistics** from the homepage
- Click **State Health Data**
- Review the resource(s) of your choice
- Click **Menu** at the top of the PHP page
- Click **Home** to prepare for the next search

## **Section 9: Additional Resources**

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## 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

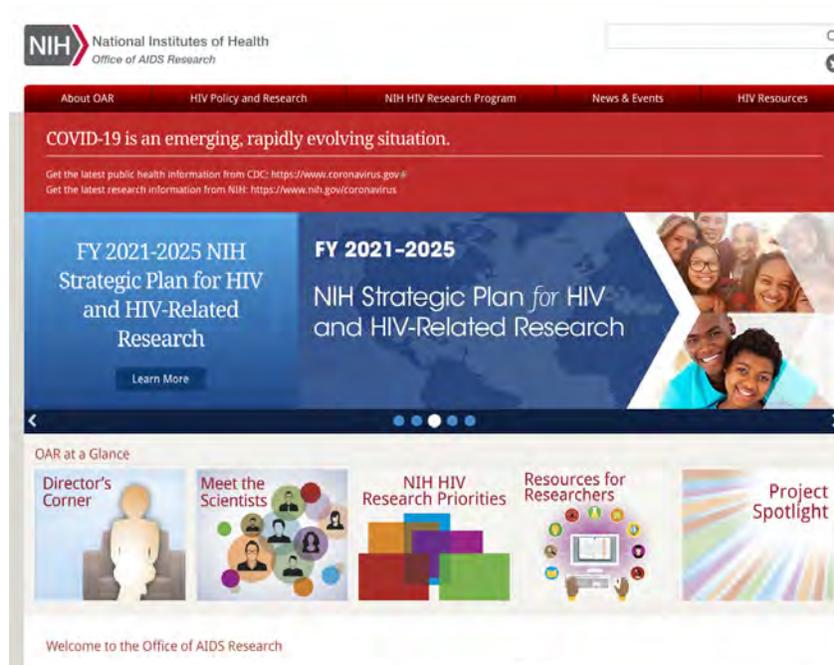
### Tools and Resources

- ▶ 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

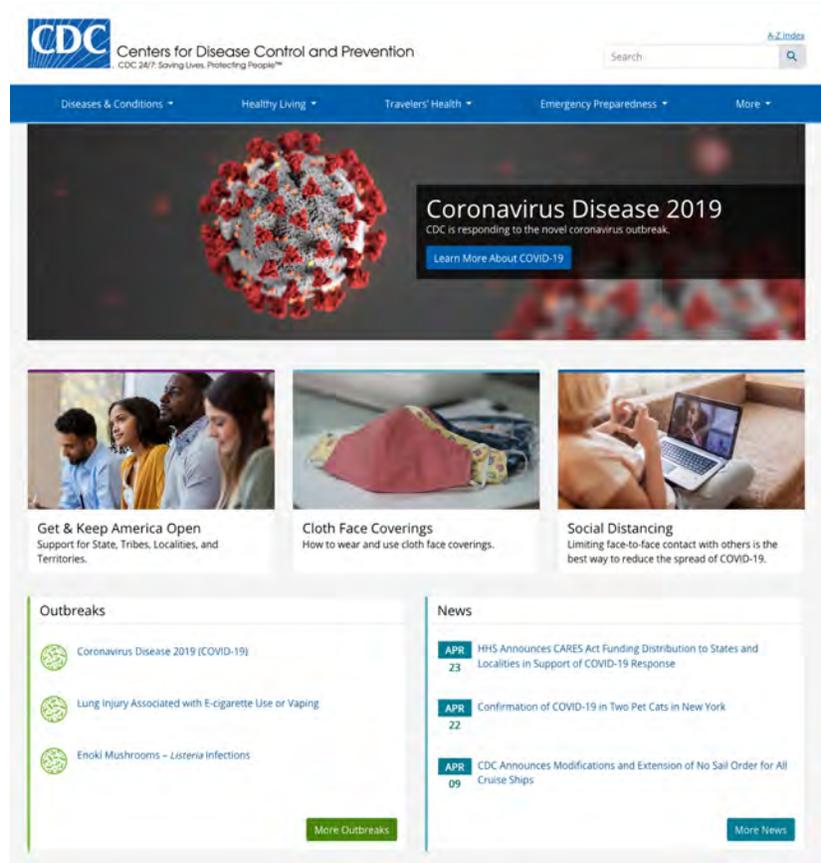
### HIV/AIDS Information (links)

- ▶ 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.



<https://www.cdc.gov>

### Recommended Sections

- ▶ Minority Health — <https://www.cdc.gov/minorityhealth>
- ▶ Health Equity: A Selected Bibliography — <https://www.cdc.gov/chronicdisease/healthequity>
- ▶ Resource Library — <https://www.cdc.gov/hiv/library/index.html>



## 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.

**Ending the HIV Epidemic**  
A PLAN FOR AMERICA

**GOAL:**  
75% reduction in new HIV infections by 2025 and at least 90% reduction by 2030.

[www.hiv.gov](http://www.hiv.gov)

**POPULAR HIV BASICS**

- Symptoms of HIV**  
Read about the possible symptoms of HIV. The only way to know for sure if you have HIV is to get tested.
- What Are HIV and AIDS?**  
Learn about HIV, its stages, and how the virus can be controlled with treatment.
- U.S. Statistics**  
Learn the facts about how many people have HIV in the U.S., who is at the highest risk, and more.
- How Is HIV Transmitted?**  
Myths persist about HIV. Get the facts about how the virus is spread from person to person.
- A Timeline of HIV and AIDS**  
A lot has changed about HIV/AIDS in the last 30+ years. Learn about the history of HIV/AIDS in the U.S.

**Coronavirus (COVID-19) and People with HIV: Resources and Information**

See our list of federal resources on [COVID-19 and people with HIV](#).

View CDC's FAQs: [What to know about HIV and COVID-19](#).

Additional information is available at [CDC.gov/coronavirus](https://www.cdc.gov/coronavirus) and [USA.gov/coronavirus](https://www.usa.gov/coronavirus).

HIV.gov is supported by the Minority HIV/AIDS Fund.

<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>
- ▶ AIDSinfo® — <https://aidsinfo.nih.gov>
- ▶ 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/globalink>
- ▶ 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>
- ▶ GMHC on the Web Gay Men’s Health Crisis — <http://www.gmhc.org>
- ▶ Healthfinder.gov — <https://health.gov/myhealthfinder>
- ▶ 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>
- ▶ HIV/AIDS Surveillance (US Census Bureau) — <https://www.census.gov/programs-surveys/international-programs/about/hiv.html>
- ▶ HIV/AIDS Vaccines — <https://www.niaid.nih.gov/diseases-conditions/hiv-vaccine-development>
- ▶ 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](https://www.hopkinsguides.com/hopkins/index/Johns_Hopkins_HIV_Guide/All_Topics/A)
- ▶ Joint United Nations Programme on HIV/AIDS — <https://www.unaids.org>
- ▶ MedlinePlus AIDS — <https://medlineplus.gov/hiv aids.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) — <https://www.niaid.nih.gov>
- ▶ National Institutes of Health (NIH) Office of AIDS Research (OAR) — <https://www.oar.nih.gov>
- ▶ National Library of Medicine HIV/AIDS Portal / AIDSsource — <https://aids.nlm.nih.gov>
- ▶ National Minority AIDS Council — <http://nmac.org>
- ▶ National Prevention Information Network — <https://npin.cdc.gov/>
- ▶ NIAID Division of Acquired Immunodeficiency Syndrome — <https://www.niaid.nih.gov/about/daids>
- ▶ Partners in Information Access for the Public Health Workforce--HIV  
[https://phpartners.org/ph\\_public/topic/hiv aids](https://phpartners.org/ph_public/topic/hiv aids)
- ▶ Positive.org — <http://www.positive.org/Home>
- ▶ PubMed® — <https://pubmed.ncbi.nlm.nih.gov>
- ▶ PubMed Online Training — <https://learn.nlm.nih.gov/documentation/training-packets/T0042010P>
- ▶ 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>
- ▶ US Department of Health and Human Services — <https://www.hhs.gov>
- ▶ US Food and Drug Administration, HIV and AIDS  
<https://www.fda.gov/drugs/information-drug-class/human-immunodeficiency-virus-hiv>
- ▶ 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/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

<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.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**

**<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](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**

**<https://phgkb.cdc.gov/FHH/html/index.html>**

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®**

**<https://www.nlm.nih.gov>**

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

### **National Library of Medicine Free Biomedical Literature Resources**

**<https://www.nlm.nih.gov/docline/freehealthlit.html>**

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®**

**<https://pubmed.ncbi.nlm.nih.gov>**

One of NLMs 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](mailto:custserv@nlm.nih.gov)

### Online Resources

Resource	URL
National Library of Medicine Training Center	<a href="https://nlm.gov/nto">https://nlm.gov/nto</a>
NLM HIV/AIDS Training Resources	<a href="https://aids.nlm.nih.gov/topic/1235/training-resources">https://aids.nlm.nih.gov/topic/1235/training-resources</a>
NLM Support Center	<a href="https://support.nlm.nih.gov">https://support.nlm.nih.gov</a>

### See Help and FAQ links on each database homepage

The National Network of Libraries of Medicine

Phone: 301.496.4777 | URL: <https://nlm.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)

Alaska, Idaho, Montana, Oregon, and Washington. The Pacific Northwest Region is based in Seattle, WA, at the University of Washington.

#### 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.

