

EQUAL ACCESS INITIATIVE:

HIV/AIDS Information Resources from the National Library of Medicine

For recipients of
National Minority AIDS Council
2006-2007 Equal Access Initiative Computer Grants

United States Conference on AIDS
November 7-8, 2007

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Purpose

- ▶ To familiarize participants with reliable online health information from the National Library of Medicine and other reputable HIV/AIDS-related resources
- ▶ To empower participants with the skills and knowledge to better serve their clients, colleagues, and communities through the use of online HIV/AIDS-related resources

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Objectives

After completing this class, participants will be able to

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

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The National Library of Medicine



- ▶ The world's largest biomedical library
- ▶ Part of the National Institutes of Health

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United States
National Library of Medicine
National Institutes of Health

The World's Largest
Medical Library

Contact NLM | Site Map | FAQs

Search NLM Web Site

List of NLM Databases and Resources

Especially for:

- The Public
- Health Care Professionals
- Researchers
- Librarians
- Publishers

Current Health News

High Blood Pressure Runs in Families (03/25/08)
Patients Do Better at Hospitals with Clinical Trials (03/25/08)
Act Fast during Heart Attacks (03/25/08)
More Health News

NLM News and Press Releases

Friends of NLM Michael E. DeBakey Award Nominations Due (03/17/08)
NLM and OHSU Announce New NIH Web Site Source for Women's Health Research Information (03/10/08)
New Exhibition at NLM: "Most Horrible and Shocking Murders" (03/06/08)
NLM announces the release of the NLM Drug Information Portal (02/12/08)
More NLM News

On Exhibit at NLM

Against the Odds
Against the Odds
Making a Difference in
Global Health
Exhibit opening April 17, 2008

Director's Comments

Listen to what's new in
consumer health on
MedlinePlus

Copyright, Privacy, Accessibility
U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894
National Institutes of Health, Health & Human Services
Freedom of Information Act

Last updated: 25 March 2008
First published: 10 October 1997
Permanence: Inova
Permanence: Dynamic Content

USA.gov

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

For the Public

MedlinePlus®
Health information for patients, family and friends

Use MedlinePlus to find:

- Topics on conditions, diseases and wellness
- Hospitals and physicians
- Drug information

New! NIH MedlinePlus Magazine

Search MedlinePlus health information:

También en español

Current Health News

High Blood Pressure Runs in Families (03/25/08)
Patients Do Better at Hospitals with Clinical Trials (03/25/08)
Act Fast during Heart Attacks (03/25/08)
More Health News

Online Exhibitions

VISIBLE PROOFS OF FORENSIC MEDICINE
Discover the history and science of forensic medicine

Visible Human Project
Anatomical cross-section images of the human body

Reliable Health Information from NLM

NLM Guide to Finding Health Information
NLM Tutorial: Evaluating Internet Health Information
ClinicalTrials.gov
Information for patients about clinical research studies
NIH Senior Health
Health information for older adults
Tox Town
An interactive guide to commonly encountered toxic chemicals, your health, and the environment
Household Products Database
Health & Safety Information on Household Products
Genetics Home Reference
Genetic conditions and

NLM Resources



NLM resources covered in this class:

- ▶ AIDSinfo®
- ▶ ClinicalTrials.gov®
- ▶ MEDLINE®/PubMed®
- ▶ MedlinePlus®
- ▶ NLM Gateway
- ▶ DIRLINE

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NLM Database Assistance

- ▶ Training Manuals
 - PubMed, NLM Gateway, ClinicalTrials.gov
 - http://www.nlm.nih.gov/pubs/web_based.html
- ▶ PubMed Help/FAQ and Tutorial
 - <http://pubmed.gov> (see links on sidebar)
- ▶ NLM Fact Sheets
 - <http://www.nlm.nih.gov/pubs/factsheets/factsheets.html>

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The National Network of Libraries of Medicine

The screenshot shows the NNLM website homepage. At the top, there is a navigation bar with links for "About Us", "Contact Us", "Feedback", "Site Map", and "Help". Below this is a search bar with a "Google Search" button. A main menu includes "Member Services", "Provide Outreach", "Resource Sharing & Document Delivery", "Health Information on the Web", "Funding", and "Training & Educational Opportunities". The central content area is titled "Resources for Members of the National Network of Libraries of Medicine (NNLM)" and features a map of the United States divided into seven regions: Pacific Basin, Greater Midwest Region, Mid-Contental Region, Middle Atlantic Region, New England Region, Pacific Northwest Region, Pacific Southwest Region, South Central Region, and Southeastern Atlantic Region. To the right, there are sections for "Quick Links" and "News & Announcements".

Resources for Members of the National Network of Libraries of Medicine (NNLM)

Advancing the progress of medicine and improving the public health through access to health information. Join the network or find local resources by clicking on the links below or call us at 1-800-338-7657.

Quick Links:

- Health Information on the Web
- PubMed
- MedlinePlus®
- Local
- Order Articles with Looseleaf Doc
- DOCLINE
- Members Directory
- National Training Center and Clearinghouse (NTCC)
- Outreach Evaluation Resource Center (OERC)
- PHPartners.org
- TribalConnections

News & Announcements:

- NNLM's Blogs
- Regional Events Calendars
- Problems with the website? Use the Feedback link (at the top of any page) or call us at 800-338-7657.

<http://nnlm.gov>

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What is the Internet? The World Wide Web?

- ▶ The Internet and the World Wide Web (Web) are not the same thing
 - The Internet is a worldwide network of computer networks that can all “talk” to each other using languages called “protocols”
 - The Web is only one portion of the Internet – the best known part
- ▶ The Web is viewed with a graphical interface software called a “browser,” such as
 - Microsoft’s Internet Explorer
 - Mozilla Firefox

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The screenshot shows the homepage of the National Library of Medicine (NLM). The header includes the NLM logo and the text "United States National Library of Medicine National Institutes of Health" and "The World's Largest Medical Library". The main content area is divided into several sections: "Especially for:" with links for "The Public", "Health Care Professionals", "Researchers", "Librarians", and "Publishers"; "Current Health News" with articles like "High Blood Pressure Runs in Families" and "Patients Do Better at Hospitals with Clinical Trials"; "NLM News and Press Releases" with items like "Friends of NLM Michael E. DeBakey Award Nominations Due"; and "List of NLM Databases and Resources" featuring "PubMed", "MedlinePlus", "DailyMed", and "ClinicalTrials.gov". A search bar is located in the top right. The footer contains copyright information, a USA.gov logo, and the URL <http://www.nlm.nih.gov> - a World Wide Web site.

Uniform Resource Locator

- ▶ A URL is made up of
 - The “protocol” name (language) **http://**
 - The “server” name **nlm.nih.**
 - The “domain” name **gov**
 - And sometimes also
 - A directory name and/or **portals**
 - A file name **public.html**

<http://www.nlm.nih.gov/portals/public.html>
<http://www.nlm.nih.gov/hinfo.html>

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Using the Navigation Toolbar



- ▶ Go **Back** to the previous page or **Forward** to where you just were
- ▶ Click **Stop** to stop loading a page
- ▶ Click **Refresh** to reload a page
- ▶ Go **Home** to your starting page

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Using the Navigation Toolbar



- ▶ Click **Print** to print the page you are on, but be careful!
 - One Web page can be many pages when printed
 - Use Print Preview (under the File pull-down menu) to see how many pages will be printed
 - If the Web page you are viewing has frames, be sure to click your cursor in the frame that you want to print
- ▶ Click **Mail** to send the page to someone

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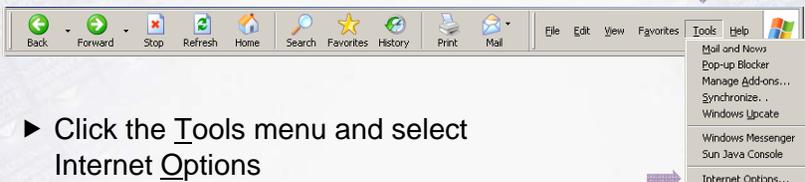
Bookmarking Favorite Pages



- ▶ Go to the page you want to bookmark
- ▶ Click **Favorites** and select Add to Favorites...
- ▶ Organize your bookmarks for easier use
 - Click Favorites and select Organize Favorites...
 - Click Create Folder
 - Type a name for the new folder
 - Drag and drop saved bookmarks to any folder
- ▶ To delete a bookmark you don't want any more
 - Click Favorites, right-click the bookmark you want to delete, and select Delete

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Changing Your Home Page



- ▶ Click the Tools menu and select Internet Options
- ▶ In the Internet Options dialog box, type the URL of your chosen page (e.g. <http://www.nlm.nih.gov>),
- ▶ Or... Go to the page you want to use as your home page, click Tools/Internet Options, then click the Use Current button below the address box



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Exploring a Web Site

- ▶ Look for links of topics of interest to click. Links can be
 - A word, a phrase, or a sentence
 - A picture or graphic image
 - You'll know it's a link when the mouse arrow pointer turns into a pointing finger 
- ▶ Look for Frequently Asked Questions (FAQs)
- ▶ Look for an electronic forum

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Search Directories

- ▶ Organized by subject
- ▶ Categorized and indexed (“hand-picked”) by people
- ▶ For broad, general topic searches
- ▶ Examples
 - Google Directory at <http://www.google.com/dirhp>
 - Yahoo Directory at <http://www.yahoo.com> > [Directory](#)
 - Open Directory Project at <http://dmoz.org>
 - LookSmart Directory at <http://looksmart.com/x02>

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Search Engines

- ▶ Index documents and match text to key words requested by the user
- ▶ Two types
 - Searches a large portion of pages on the Web
 - Searches within topics, regions, or sites
- ▶ Some search engines are also Web portals, including Google, Yahoo!, and Ask.



<http://www.ask.com>

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Your Search Strategy

- ▶ PLAN!
 - What are you looking for?
 - Is the Web the best place to find the information?
- ▶ ACT!
 - Know which search tool(s) to use
- ▶ REVIEW!
 - Did the information you find answer your question?
 - Do you need to redefine, narrow, or expand your topic?

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How to Construct a Search

- ▶ Formulate the search question
 - What information is available about treatment options for children with HIV?
- ▶ Identify the important concepts within the question
 - Children, HIV, treatment
- ▶ Identify the search terms to describe those concepts
 - Children, HIV, treatment

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How to Construct a Search

- ▶ Consider synonyms and variations of those terms
 - Children, childhood
 - Childhood, juvenile, youth, child, adolescent
- ▶ Prepare your search logic (Boolean logic)
 - (children OR childhood) AND hiv AND treatment

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Boolean Logic

- ▶ Boolean commands: AND OR NOT
 - HIV AND AIDS (finds all search terms)
 - Treatment OR Therapy (finds either term or both)
 - Tuberculosis NOT Pneumonia (eliminates specified terms)
- ▶ Nested parentheses
 - Common cold AND (vitamin c OR zinc)

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Narrow a Search

- ▶ To narrow a search on apples, you could
 - Add more words
 - apples macintosh
 - Search as a phrase
 - “apple pie recipe”
 - Exclude words
 - apples – macintosh
 - apples NOT macintosh

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Broaden a Search

- ▶ To broaden a search on “macintosh apples” – Fiji
 - Use a broader term
 - apples
 - Use fewer words
 - Do not search as a phrase
 - Do not exclude words

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Printing Web Pages

- ▶ Different types of files on the Internet
- ▶ Most common file types
 - HTML files – indicated by extension “.html” or “.htm”
 - Adobe Acrobat files – indicated by extension “.pdf”
- ▶ On your Web navigation tool bar, click the print icon – or click the File pull-down menu and select Print

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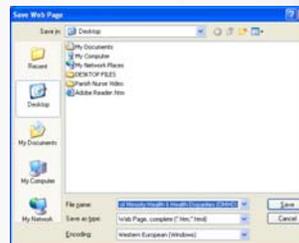
Printing HTML Pages

- ▶ HTML pages may not print as seen on screen
- ▶ Use Print Preview (on the File pull-down menu) to see how the page will print and how many pages will be printed
- ▶ If the Web page you are viewing has frames, be sure to click your cursor in the frame that you want to print

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Saving Web Pages

- ▶ On the navigation tool bar, click the File pull-down menu and select Save As
- ▶ A window will pop up to allow you to select the folder in which you want to save the document
- ▶ Select a folder and click the **Save** button



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About Adobe PDF Pages

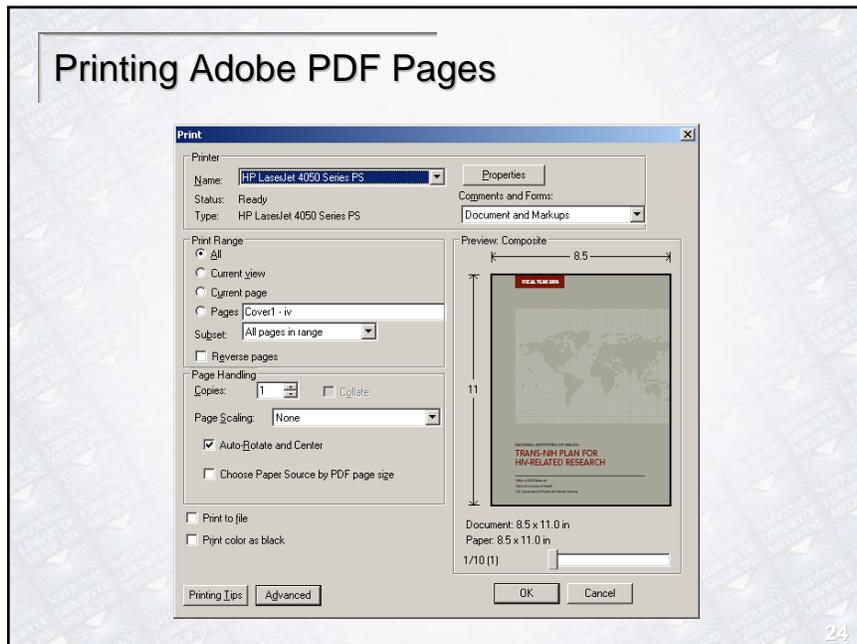
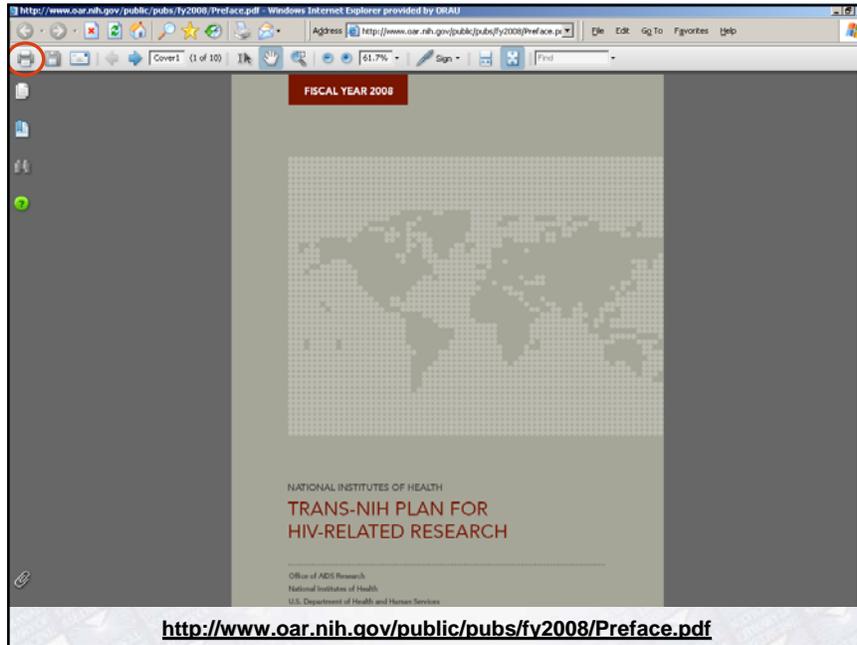
- ▶ Adobe PDF (PDF) is a universal file format
 - Standard for worldwide electronic document distribution
 - Created by Adobe Systems, Inc.
- ▶ PDF files will print as they appear on screen
- ▶ PDF displays document information intact
 - Page numbering
 - Illustrations
- ▶ Free program to read PDF files is called Adobe Reader

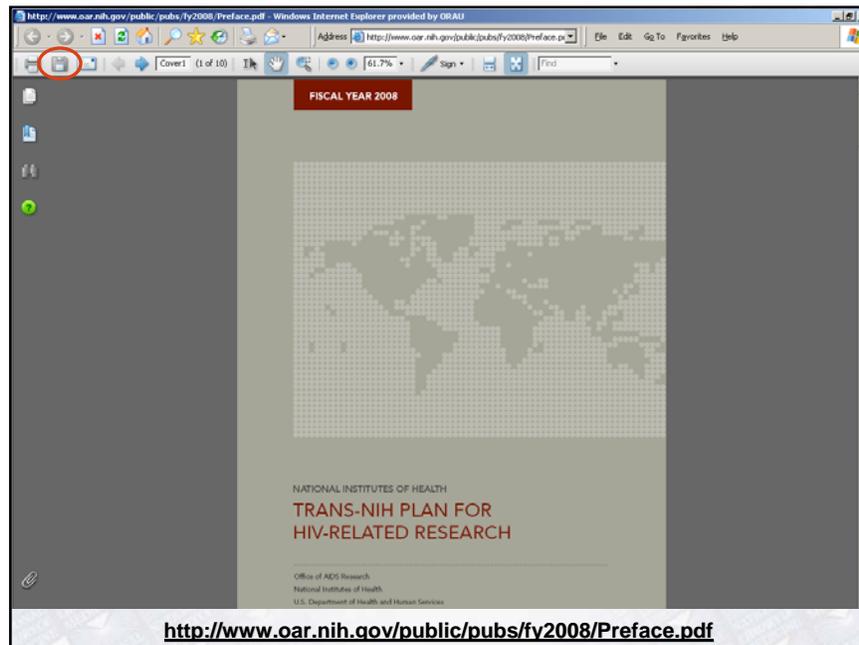
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Adobe Reader

The screenshot shows the Adobe Reader download page. At the top, there is a navigation bar with links for SOLUTIONS, PRODUCTS, SUPPORT, COMMUNITIES, COMPANY, DOWNLOADS, and STORE. Below this, the page title is "Adobe Reader". The main content area features a large red Adobe logo and the text "Adobe Reader 8.1 Latest version for your OS Windows XP - English". There are links for "System requirements" and "License Agreement". A "Continue" button is prominently displayed. Below the button, there is a section for "New Adobe Reader 8" with bullet points: "Work smarter - a clean new look, custom toolbars and an RSS reader", "Work faster - 2D acceleration (requires video card support, Win only)", and "Work together - new online conferencing with Acrobat Connect". There is also a section for "Distribute Adobe Reader" and "About Adobe Reader". On the right side, there is a table listing software options: "Adobe Reader 8.1" (22.3MB) and "Adobe Photoshop® Album Starter Edition" (8.4MB). A "File size: 30.7MB" is also indicated.

<http://www.adobe.com/products/acrobat/readstep2.html>





Caution



- ▶ Computer viruses are transmitted through e-mail and can be harmful to your computer!
 - Do not open a suspicious e-mail message
 - Immediately delete it and then empty your Deleted Items folder

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Finding Quality Health Information on the Internet



Where to Start and
How to Evaluate the Information you Find

Why the Internet?

- ▶ Abundance of FREE information
 - Medical journals/databases
 - Clinical trials
 - Treatment information
 - Prescription drugs
- ▶ 24-hour-per-day availability
- ▶ Current awareness
- ▶ Connecting with others with similar medical problems
- ▶ Anonymity/privacy

Evaluating Internet Resources

- ▶ Be careful: Information on the Internet may be unreliable
- ▶ Be savvy: Evaluate the information you find



3

Savvy Health Surfing

- ▶ Authority
- ▶ Accuracy
- ▶ Coverage
- ▶ Currency
- ▶ Objectivity
- ▶ Design Features



4

Cases of Inaccurate Web Information

- ▶ Johns Hopkins University's and C. Everett Koop's Web sites were slow to add information on new hepatitis treatments
- ▶ Reports of anthrax exposure have resulted in fraudulent Web sites selling products to protect against biological threats

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Cases of Inaccurate Web Information

- ▶ Home HIV tests
 - Many home HIV test kits sold over the Internet supply inaccurate results according to the Federal Trade Commission
 - Correct information: Only one home test is reliable, as per the Food and Drug Administration (FDA)
 - Home Access Express HIV-I Test System

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Caution

- ▶ Avoid Web sites that:
- ▶ Advertise a "new cure" for a serious disorder or a quick cure-all for a wide range of ailments
- ▶ Use impressive-sounding terminology to disguise a lack of good science or those that claim the government, the medical profession, or research scientists have conspired to suppress a product
- ▶ Include undocumented case histories claiming "amazing" results

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Evaluating Internet Resources

- ▶ Use your best judgment and these criteria to evaluate information on the Internet
- ▶ Consult your health care professional before making any treatment decisions

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AIDSinfo
A Service of the U.S. Department of Health and Human Services
Offering information on HIV/AIDS Treatment, Prevention, and Research

Live Help | Subscribe to Listserv | Español | Site Tools

Search: [] Go

E-mail | 1-800-HIV-0440 (1-800-445-0440)

Guidelines | Drugs | Clinical Trials | Vaccines | Health Topics | More AIDSinfo

GUIDELINES Updated
Guidelines for the treatment of HIV/AIDS, reviewed and updated by experts in the field.
• Treatment / Prevention
• About the HIV Treatment Guidelines
• Download / Order
• FDA Tools

DRUGS
Fact sheets on HIV/AIDS-related drugs:
• Search the Drug Database
• FDA-Approved Drugs
• Investigational Drugs

CLINICAL TRIALS
Find research studies on drugs, vaccines, and other new or existing treatments for HIV/AIDS:
• Search for Clinical Trials
• New HIV/AIDS Trials

Highlights
• Updated Pediatric Treatment Guidelines Released - February 20, 2008
• Nominations Are Being Accepted for New Scientific and Community Members for the HHS Working Group on Antiretroviral Therapy in HIV-Infected Children
• HHS National Black HIV/AIDS Awareness Day Web Page - February 7, 2008
• More News...

Features
• Ask-Outside-ROS Feed
• AIDSinfo Fact Sheets
• Live Help

VACCINES
Information on preventable and therapeutic HIV vaccine research:
• Preventive HIV Vaccines
• Therapeutic HIV Vaccines
• Search for Vaccine Trials

HEALTH TOPICS
Find resources on HIV/AIDS-related topics:
• Resources
• Fact Sheets
• Microbicides: Drug Info and resources

MORE AIDSINFO
More useful AIDSinfo features:
• Translation Tool
• Live Help
• Order Publications
• FDA Tools
• HIV/AIDS Glossary
• Tour the Site

Home | About Us | Contact Us | Glossary | Site Map | Privacy Policy | FOIA | Accessibility | Sponsors

<http://aidsinfo.nih.gov>

AIDSinfo

- ▶ A U.S. Department of Health and Human Services (DHHS) project sponsored by the following U.S. Federal government agencies:
 - National Institutes of Health/National Library of Medicine
 - Centers for Medicaid and Medicare Services
 - Health Resources and Services Administration
 - Centers for Disease Control and Prevention

AIDSinfo

- ▶ The latest federally approved information on HIV/AIDS
 - Clinical research
 - Treatment and prevention
 - Medical practice guidelines
- ▶ Audience
 - HIV/AIDS patients, their families and friends, health care providers and researchers

3

The screenshot shows the AIDSinfo website header and main content area. The header includes the National Library of Medicine logo and a search bar. The main content area is divided into several sections: NLM Resources, Especially for, HIV/AIDS Web Links, More to Explore, and Featured Site. A red circle highlights the AIDSinfo logo and its description: "AIDSinfo: Offering information on HIV/AIDS treatment, prevention, and research".

United States National Library of Medicine National Institutes of Health

Search NLM Web Site

NLM Home | Contact NLM | Site Map | FAQs

HIV/AIDS Information

SIS Specialized Information Services

SIS Home | About Us | Site Map & Search | Contact Us

SIS Home >

NLM Resources	Especially for
<ul style="list-style-type: none">▶ Treatment and Drug Information▶ Clinical Trials▶ Journal Articles, Books, Audiovisuals▶ Consumer Health Information	<ul style="list-style-type: none">▶ The Public▶ Researchers/Scientists▶ Health Professionals▶ Students/Educators

AIDSinfo AIDSinfo: Offering information on HIV/AIDS treatment, prevention, and research

HIV/AIDS Web Links	
<ul style="list-style-type: none">▶ Diagnosis and Testing▶ Nutrition and Exercise▶ Prevention▶ Related Medical Conditions▶ Research and Research Tools▶ Resources	<ul style="list-style-type: none">▶ Special Populations▶ Statistics, Surveillance, and Epidemiology▶ Substance Abuse▶ Vaccine Development▶ Español/Spanish

More to Explore

- About
- News
- Publications
- Contracts and Projects
- Drug Information Portal
- Health Services Research & Public Health Information Programs

Featured Site

Clinical Trials of HIV/AIDS Vaccines

Last updated: 08 February 2008
First published: 14 April 2005
Metadata | Permanence level: Permanent: Dynamic Content

Copyright Privacy Accessibility
U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894
National Institutes of Health, Health & Human Services

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

The screenshot shows the ClinicalTrials.gov website. At the top left is the logo "ClinicalTrials.gov" with the tagline "A service of the U.S. National Institutes of Health". To the right are navigation links for "Home", "Search", "Study Topics", and "Glossary", along with a search input field and a "Search" button. The main content area is divided into two columns. The left column contains three main sections, each with a blue arrow icon: "Search for Clinical Trials" (with a subtext about 53,306 trials in 154 countries), "Investigator Instructions" (with a subtext about registering trials), and "Background Information" (with a subtext about using the site). The right column contains two sections: "Resources" with links for "Understanding Clinical Trials", "What's New", and "Glossary"; and "Study Topics" with links for "List by Condition", "List by Drug Intervention", "List by Sponsor", and "List by Location". At the bottom of the page, there are small links for "U.S. National Library of Medicine", "Contact Help Desk", "U.S. National Institutes of Health", "U.S. Department of Health & Human Services", "USA.gov", "Copyright", "Privacy", "Accessibility", and "Freedom of Information Act". Below these links are logos for the National Library of Medicine and the National Institutes of Health, followed by the URL "http://clinicaltrials.gov".

ClinicalTrials.gov

- ▶ Developed by the U.S. National Institutes of Health (NIH), through its National Library of Medicine (NLM) in collaboration with NIH Institutes and the Food and Drug Administration (FDA)
- ▶ Easy access to information on clinical trials for a wide range of serious or life-threatening diseases and conditions
- ▶ Language intended to be suitable for general public
- ▶ Studies included conducted in 50 states and more than 154 countries

2

Benefits

- ▶ Locate an open clinical trial for a specific ailment
- ▶ Find contact information for the study
- ▶ Determine what treatments for a specific ailment are currently being studied
- ▶ Confidential
 - No registration or personal identification is required

3

Basic Search

- ▶ Type your search term(s) into the query box



The screenshot shows the ClinicalTrials.gov website interface. At the top, there is a navigation bar with links for Home, Search, Study Topics, and Glossary. Below this is a search bar with a 'Search' button. The main content area features a 'Basic Search' tab, along with 'Advanced Search', 'Studies by Topic', and 'Studies on Map'. A text box prompts the user to 'Enter a word or phrase, such as the name of a medical condition or intervention.' An example search term 'Heart Attack AND Los Angeles' is provided. Below the text box is another 'Search' button and links for 'Advanced Search' and 'Help'.

4

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

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for Go Clear

Limits Preview/Index History Clipboard Details

About Entrez Text Version

Entrez PubMed Overview Help | FAQ Tutorials New/Noteworthy E-Utilities

PubMed Services Journals Database MeSH Database Single Citation Matcher Batch Citation Matcher Clinical Queries Special Queries LinkOut MyNCBI

Related Resources Order Documents NLM Mobile NLM Catalog NLM Gateway TOXNET Consumer Health Clinical Alerts ClinicalTrials.gov PubMed Central

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

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

Set up an automated PubMed update in fewer than five minutes.

1. Create a [MyNCBI account](#).
2. Save your search.
3. Your PubMed updates can be e-mailed directly to you.

Read the [MyNCBI Help](#) material to explore other options, such as automated updates of other databases, setting search filters, and highlighting search terms.

PubMed is a service of the [U.S. National Library of Medicine](#) that includes over 17 million citations from MEDLINE and other life science journals for biomedical articles back to the 1950s. PubMed includes links to full text articles and other related resources.

<http://pubmed.gov>

MEDLINE/PubMed

- ▶ PubMed is a search tool for accessing literature citations from NLM's premiere bibliographic database, MEDLINE, and other databases
- ▶ Special Features
 - Updated daily
 - Clinical query filter
 - Special queries directory
 - Related articles
 - Links to other NLM-related resources
 - Links to full-text journals at Web sites of participating publishers

2

PubMed Searching

- ▶ Key words
 - Automatically matched to MeSH, journal titles, phrase list, and author index
 - Not case sensitive
- ▶ Phrases (“heart attack”)
 - Phrases in quotes will not be matched to MeSH, journal titles, phrase list, and author index
- ▶ Author’s name format for searching (smith ja)
- ▶ Full name may be used for citations from 2002 forward

3

PubMed Searching

- ▶ Boolean commands: **AND**, **OR**, and **NOT**
 - hiv **AND** aids finds all search terms
 - treatment **OR** therapy finds either term or both
 - chicken pox **NOT** shingles eliminates specified terms
- ▶ Stop words
 - Frequently used words such as: for, this, no
- ▶ Truncation
 - Finds all words beginning with a given root word or text string
 - Place an asterisk (*) at the end of the term (e.g., infect*)

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The screenshot displays the PubMed search interface. At the top, the NCBI logo and PubMed name are visible, along with the URL www.pubmed.gov. The search bar contains the text "Tuberculosis NOT Pneumonia". Below the search bar, there are several filtering options:

- Search by Author:** Includes an "Add Author" field and a "CLEAR" button.
- Search by Journal:** Includes an "Add Journal" field and a "CLEAR" button.
- Full Text, Free Full Text, and Abstracts:** Includes checkboxes for "Links to full text", "Links to free full text", and "Abstracts".
- Dates:** Includes dropdown menus for "Published in the Last:" and "Added to PubMed in the Last:", both set to "Any date".
- Humans or Animals:** Includes checkboxes for "Humans" and "Animals".
- Gender:** Includes checkboxes for "Male" and "Female".
- Languages:** Includes checkboxes for "English", "French", "German", "Italian", and "Japanese".
- Subsets:** Includes checkboxes for "Journal Groups", "Core clinical journals", "Dental journals", and "Nursing journals".

A note at the bottom of the interface states: "NOTE: Most citations in PubMed prior to 1975 do not include abstracts."

The screenshot shows the MedlinePlus website homepage. At the top, there is a purple header with the MedlinePlus logo and the tagline "Trusted Health Information for You". To the right of the logo, it says "A service of the U.S. NATIONAL LIBRARY OF MEDICINE and the NATIONAL INSTITUTES OF HEALTH". Below the header is a search bar and navigation links: "About MedlinePlus", "Site Map", "FAQs", "Contact Us", and a language selector for "español".

The main content area is divided into several sections:

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

Other sections include:

- Current Health News:** Links to articles like "High Blood Pressure Runs in Families", "Patients Do Better at Hospitals with Clinical Trials", and "Act Fast during Heart Attacks".
- Featured Site:** Promotes a live webcast of prostate cancer surgery on March 26 at 12:00 PM EDT.
- In the Spotlight:** Announces March as National Multiple Sclerosis Awareness Month.
- Interactive Tutorials:** Over 165 slideshows with sound and pictures.
- ClinicalTrials.gov:** Studies for new drugs and treatments.
- NIH SeniorHealth:** Health information for older adults.
- Surgery Videos:** Videos of surgical procedures.

At the bottom, there are links for "What's New", "Director's Comments", "NIH MedlinePlus Magazine", and "E-mail Updates and RSS". The footer contains copyright information and the URL <http://medlineplus.gov>.

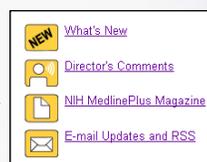
The slide features the MedlinePlus logo in the top right corner. The main content is a list of five bullet points:

- ▶ User-friendly source
- ▶ Health information for patients and the public
- ▶ Credible sources
- ▶ Easy-to-read language
- ▶ Links to MEDLINE/PubMed searches

A small number "2" is visible in the bottom right corner of the slide.

The NIH MedlinePlus Magazine

- ▶ You can
 - Receive a free subscription
 - Download past issues
 - Order 25 or more copies for only \$1 each
- ▶ Click [NIH MedlinePlus Magazine](#) in the bottom right corner of the MedlinePlus home page



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The MedlinePlus Listserv

- ▶ An e-mail announcement list with links to new topics and sites containing consumer health information
- ▶ Click [E-mail Updates and RSS](#) in the bottom right corner of the MedlinePlus home page



4

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

Your Entrance to Resources from the National Library of Medicine

Home Term Finder Limits/Settings About Help FAQ

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

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

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

Search Results - Categories

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

Your Entrance to Resources from the National Library of Medicine

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

Results Summary: 150834 records found [\[Bookmark this Search \]](#)

Bibliographic Resources	Consumer Health Resources	Other Information Resources
72443 MEDLINE/PubMed - journal citations, abstracts	32 MedlinePlus - Health Topics	192 HSBProj - Health Services Research Projects
6881 NLM Catalog - books, AVs, serials	97 MedlinePlus - Drug Information	47 OMIM - Online Mendelian Inheritance in Man
1872 Bookshelf - full text biomedical books	47 MedlinePlus - Medical Encyclopedia	51 HSDB - Hazardous Substances Data Bank
5105 TOXLINE Subset - toxicology citations	20 MedlinePlus - Current Health News	0 IRIS - Integrated Risk Information System
119 DART - Developmental and Reproductive Toxicology	34 MedlinePlus - Other Resources	0 ITER - International Toxicity Estimates for Risk
59948 Meeting Abstracts	3435 ClinicalTrials.gov	0 GENE-TOX - Genetic Toxicology (Mutagenicity)
	366 DIRLINE - Directory of Health Organizations	0 CCRIS - Chemical Carcinogenesis Research Information System
	14 Genetics Home Reference	131 Profiles in Science
	0 Household Products Database	

2

NLM Gateway

- ▶ “One-stop shopping”
 - One interface to search many NLM bibliographic, consumer and specialty resources
- ▶ Potential NLM Gateway users
 - People who are not familiar with NLM’s resources
 - People who want search multiple databases at once
 - People who want to search resources that are available only in the NLM Gateway

3

The screenshot shows the DIRLINE website interface. At the top, there is a blue header with the NLM logo and text: "United States National Library of Medicine National Institutes of Health". To the right is a search bar labeled "Search NLM Web Site" with a "Go" button. Below the header is a navigation menu with links: "NLM Home | Contact NLM | Site Map | FAQs". The main content area has a dark blue banner for "Directory of Health Organizations SIS Specialized Information Services". Below this is a sub-header "DIRLINE PDA Access" and "SIS Home | About Us | Site Map & Search | Contact Us". A "SIS Home >" link is also present. The main search area is titled "Search DIRLINE" and includes a search input field, "Search" and "Clear" buttons, and a placeholder "(e.g. aging chronic diseases, scleroderma)". Search options include radio buttons for "all of the words" (selected), "any of the words", and "exact phrase". Fields to search are listed with checkboxes: "Organization name or acronym" and "MeSH Headings/keywords". Under "Select records containing:", there are checkboxes for "Only organizations with toll-free numbers" and "Only organizations with services for the hearing impaired". "Search" and "Browse the Index" buttons are at the bottom of the search area. On the right side, there are sections for "Health Hotlines" (with a telephone icon and text "Toll-free numbers for over 300 organizations"), "Other NLM Resources" (listing MedlinePlus®, PubMed, NLM Gateway, and LocatorPlus), and "Support Pages" (listing Help, Fact Sheet, Disclaimer, and A to Z List of Health Organizations). At the bottom left, it says "Last updated: 15 July 2005" and "First published: 29 May 2005". At the bottom center, the URL <http://dirline.nlm.nih.gov> is displayed.

DIRLINE

- ▶ Contains over 8,000 records
 - Includes national health/biomedical information resources and groups with other special interests
- ▶ Information includes
 - Names
 - Addresses
 - Telephone numbers
 - Interests
 - Activities
 - Services

2

Using DIRLINE

- ▶ You may search using
 - Subject words or MeSH headings
 - Name, acronym, or location of an organization
- ▶ You may select
 - Only organizations with toll-free numbers
 - Only organizations with services for the hearing impaired
- ▶ You may Browse the Index for text words or key words/MeSH headings
- ▶ You may BROWSE THE A-Z List of Health Organizations

3

Organization Name

- ▶ Enter one or more significant words from the name of an organization

Example

Entering the search terms: **minority aids council**

... and clicking the box beside
"Organization name or acronym,"

... retrieves the record for: **National Minority AIDS Council**

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