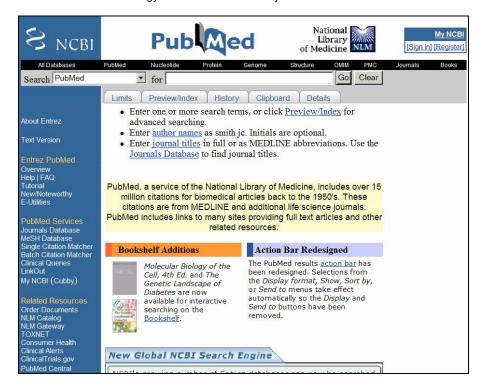


# PubMed: A Quick Guide

#### PubMed: (connect from Lane Library's webpage, http://lane.stanford.edu/

- Produced by NCBI (National Center for Biotechnology Information), PubMed provides free access to MEDLINE, NLM's
  database of more than 15 million bibliographic citations and abstracts in the fields of medicine, nursing, dentistry,
  veterinary medicine, health care systems, and preclinical sciences.
- Includes access to additional selected life sciences journals not in MEDLINE.
- Links to the full-text of articles in electronic journals subscribed to by Lane Library. Icons provide info on Lane Library's print holdings as well as an easy-to-use interlibrary-loan request form.
- Links to the molecular biology databases maintained by NCBI.



PubMed offers multiple searching options, each with its own special features.

## "Search Box" -- Fast, But Not Always The Most Precise Method

Type terms into PubMed's main search box and click the "Go" button. PubMed's "Automatic Term Mapping" feature then translates the query using a variety of translation aids: a medical subject headings (MeSH) table; a journal list; a phrase list; and an author index. If PubMed is unable to map the terms, it will run a search on ALL fields (Title, Abstract, Author, etc.)

**Topic Search:** Enter a word or phrase into the box indicated by the arrow below and click "Go." The following is a topic search of "malaria prevention" and "cost effectiveness."



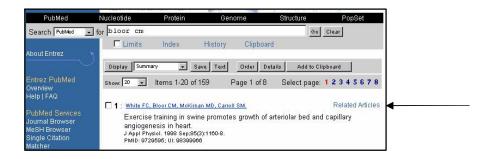
If specific Boolean operators ("AND," "OR," "NOT") are not used, PubMed will automatically use "AND." When using the basic query box, start with specific search queries, e.g., "malaria prevention AND "cost effectiveness" instead of general queries, e.g., "malaria." Otherwise, you may need to sift through hundreds, perhaps thousands of largely irrelevant citations.

Author Search: Format your Author as shown below for "bloor cm" as author. Use initial(s) after a surname.



## " Related Articles" -- Fast, High Relevance, Not Necessarily Comprehensive

PubMed also provides searchers with the option of expanding a search using a particularly relevant article as a starting point. After retrieving a relevant article, click on "Related Articles," (to the right of the citation author names) to activate PubMed's searching algorithm. This sophisticated algorithm combines words from the title, abstract, and subject headings as part of the retrieval process. Citations are listed in order of relevance -- most relevant first. Any "Limits" previously applied (e.g., English, review articles, etc.) are lost.

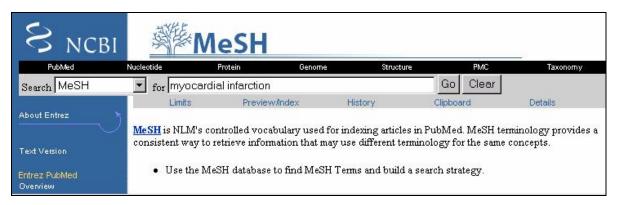


## " MESH" -- High Retrieval, High Relevance

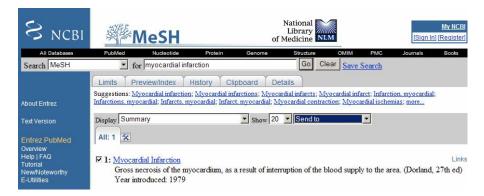
To use the MeSH Database: 1) Click "MeSH Database" (at the left margin, under "PubMed Services"); 2) Enter the search term and click "Go;" 3) Click the "Send to" button to begin building your search statement, 4) enter other terms as needed proceeding through steps 2 and 3; 5) Click "PubMed Search" to perform the search.

Example: Search aspirin and myocardial infarction.

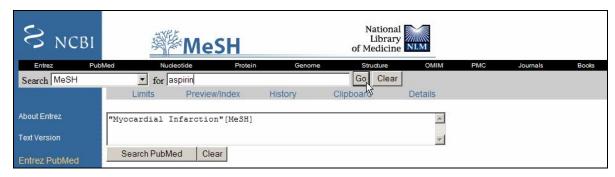
Start by typing, myocardial infarction, click "Go."



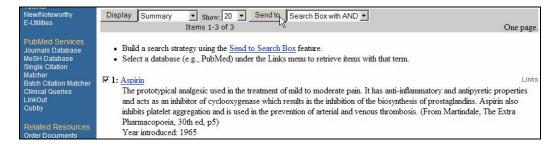
Myocardial Infarction is displayed as a selectable MeSH term. Click the "Send to" pull down menu and pick "Send to Search box with AND."



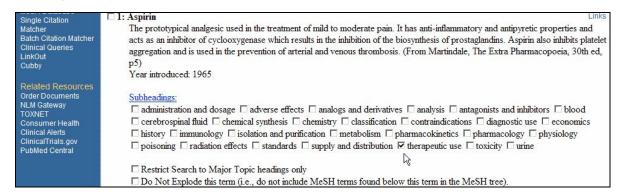
Notice that myocardial infarction has been placed into a small search window. You can repeat these steps with other topics, e.g., aspirin. Type, aspirin and click "Go."



Before adding aspirin to your search, click on the term "aspirin" to get information on its subheadings and its place within the MeSH hierarchy.



This window provides you with a list of "Subheadings," which you can use to narrow your search to specific aspects of a MeSH term (e.g., "aspirin" and "therapeutic use"). Further down the screen (not visible in this screen shot) is a hierarchical listing of broader and narrower MeSH terms, including "pharmacological action." Once you've picked your MeSH/subheading combination, click on the "Send to" pull down menu.



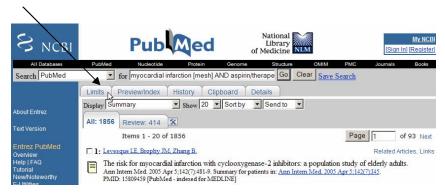
You can now run the search by clicking on the "Search PubMed" button.



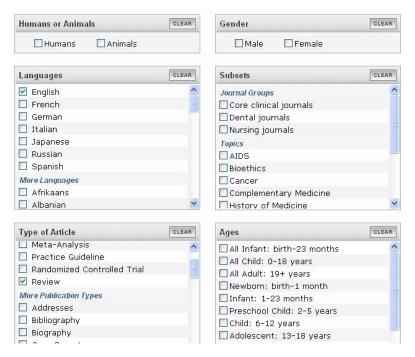
### "Limits" -- Restricting Your Search to More Relevant Citations

"Limits" allows you to restrict your search with a range of search parameters, e.g., review article, publication date, age group, human or animal study, etc.

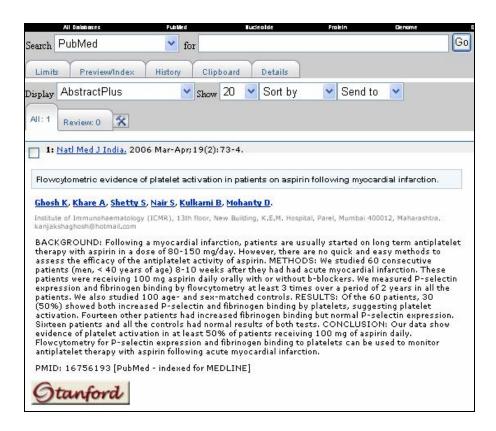
To access the "Limits" screen, click the Limits tab.



Choose from the various options: e.g., Clicking on "Go" performs the search. The "Limits" you set will remain active until new limits are set, or the Limits check-box is unchecked.

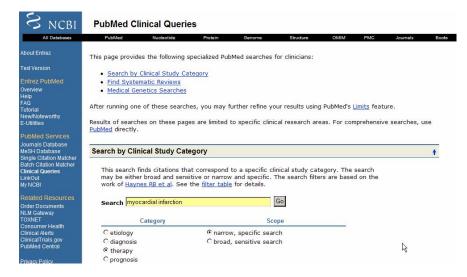


Use the "Abstract" display format to view your citations with abstracts - note the Stanford link.



#### "Clinical Queries" -- Fast, Not Comprehensive

The "Clinical Queries" screen is most effective when used to look for articles focusing on general medicine and the "therapy," "diagnosis," "etiology," or "prognosis" of a particular condition, or if you're trying to limit your search to systematic reviews. A new Medical Genetics filter is also now available. The "Clinical Queries" screen can be accessed from the left side of the PubMed searching interface. An in-depth description of how the "filters" work is available from the "Clinical Queries" screen.



#### Links to full-text and beyond...

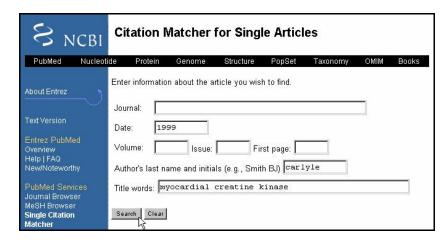
Use the Stanford icon link to Lane Library's ejournal and print holdings, document delivery through DocXpress, and a ranking of the journal by its impact factor.



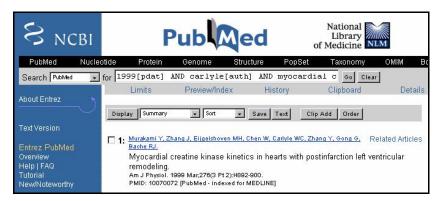
## **Single Citation Matcher**

PubMed offers a convenient screen for locating single citations called, not surprisingly, "Single Citation Matcher." Enter whatever information you have for the citation, then click on the "Search" button.

For example, to locate an article by *Carlyle* with the words *myocardial creatine kinase* in the title, and published in 1999, enter the data you have into the citation matcher search screen...



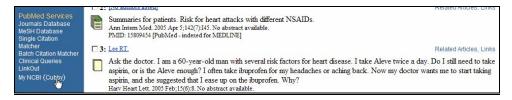
Here's the citation!



#### Saving Searches with My NCBI

One of the more attractive features of PubMed is its stored search utility, called "My NCBI" (formerly known as Cubby) Searchers can run searches, download citations, and then store the search strategy. New citations matching the stored search criteria can be automatically emailed to the searcher.

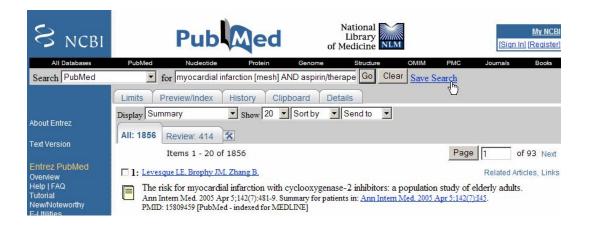
First, click the My NCBI link on the left vertical blue margin.



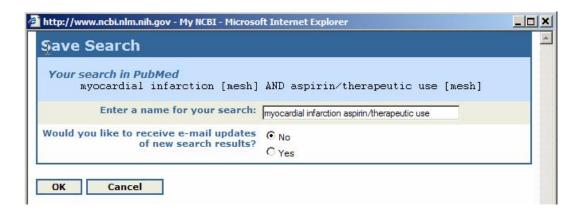
If you haven't registered with My NCBI before, click on the "register for an account" link and register (the service is free).



Run the search you want to save, then click on the "Save Search" link, and login to My NCBI if you haven't already.



Indicate whether or not you want to receive email updates. Otherwise, you can always login at your convenience and request an update of citations added since you last logged in to My NCBI.



Clicking on the My NCBI link shows you your saved searches.



#### Displaying, Printing and Downloading from PubMed

#### Emailing:

- To email your citations, click the "Send to" pull down menu and choose "E-mail."
- On the subsequent screen, indicate the appropriate format for your citations (e.g., Abstracts), enter your email address, and click "Mail."

## Displaying:

- Multiple display options are available for PubMed citations from the Display pull-down menu
- For example, "Abstract" displays citations with abstracts; "MEDLINE" displays citations with "tags" (citations saved in the MEDLINE display format can be imported into a bibliographic management program such as EndNote)
- Select specific citations by clicking in the check-box to the left of the citation number. To display ALL citation in a particular display format, simply leave the boxes blank and click "Display."

## Printing:

- Change the "Show" pull-down menu to a number greater than the citations in your search set, e.g., 200 for a set of 180 citations (this allows ALL your citations to be displayed on one page, otherwise you'd have to print page by page)
- Click "Display" and your citations will display on one (possibly very long) page.
- Use the Print button in your browser to print the citations. To print the citations without extraneous menu or header and banner graphics, click the "Send to" pull down menu. Choose "Text." Use you browser's print button to print the citations.

## Downloading:

- Use "Send to" "Clipboard" to store your citations temporarily (duplicates get deleted)
- Once you've finished searching, click on "Clipboard" and choose a display format; e.g., "Citation"
- 3. Click "Send to" and choose "File" to save your citations as a file.

CS Rev 7/2006 (orig 3/2001)