

Mesh Searching in PubMed & NCBI

PubMed contains over 29 million citations for biomedical literature from MEDLINE, life science journals, and online books.

MeSH stands for Medical Subject Headings. MeSH terms are assigned by an Indexer employed by the National Library of Medicine and not the author. These terms are used to describe the content of the article in addition to the abstract and can used to enhance your search in PubMed.

Accessing the Database

- 1. Go to the Hardin Library homepage at http://www.lib.uiowa.edu/hardin/
- 2. Click on the link that says "PubMed." It is located under the heading "Popular Resources." (NOTE: While PubMed is freely available, it is best to access it from the Hardin Library website so that you will have access to full text articles that you are only entitled to as an affiliate of the University of Iowa).
- 3. If you are off-campus, you will be prompted for your Hawk ID and password.

Finding the MeSH terms from an Article & Using them to Perform a New Search

1. After doing a search, go to the Abstract format (see "Finding Full Text Articles" section in the Basic Searching in PubMed handout).

2. Click on the + icon at the bottom of the citation (not every citation will have the MeSH terms available, this is because the citation is added into the PubMed database first and then the abstract and MeSH terms are added later)

3. Click on the MeSH term you want to search.

4. Click "PubMed" to do a completely new search using that MeSH term.





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5. Add filters and combine searches as necessary (see the "Combing Search Results (Search History) and the "Limiting Search Results" sections in the Basic Searching in PubMed handout).

Note: MeSH terms with an * at the end, mean they are major MeSH topics. So, if you see Hypertension* listed, it means that the article is primarily about Hypertension. Any term after a / is a subheading. So, if you see Hypertension/prevention & control, it means that the article contains information about the prevention & control of Hypertension.

Searching the MeSH Database (More structured search meant to yield higher quality citations)

- 1. Break your search into concepts. For instance, a search on the effects of aspirin on hypertension has two concepts. "Aspirin" is one and "hypertension" is the other.
- 2. Change the drop box to "MeSH," then enter one concept in to the search box at a time.



3. You will be given a list of MeSH terms. Use the descriptions beneath the terms to determine which is most appropriate and then check the box to the left of your chosen

Sea	arch results									
Iter	ns: 1 to 20 of 50	Selected: 1				<< First	< Prev	Page 1 of	3 Next >	Last >>
7	Hypertension Persistently high hypertension is PRESSURE is co	systemic arteria currently define onsistently 90 m	I BLOOD PRES d as when SYST m Hg or more.	SURE. Based	l on multiple reading SURE is consistently	s (BLOOD PRE greater than 14	SSURE 0 mm H	E DETERMIN Hg or when [NATION), DIASTOLIC	
□ 2.	Familial Primary	Pulmonary Hyp thic hypertensi	pertension on in the PULM	ONARY CIRC	ULATION which is I	not secondarv to	other	disease.		

(Note: if you want to use subheadings, click the link for the MeSH term, check the subheadings you want to use, and then follow steps 4-6).

Display Settings: 🕑 Full		Send to: 🗸
Hypertension Persistently high systemic arterial BLOOD currently defined as when SYSTOLIC PR or more.	D PRESSURE. Based on multiple readings (B ESSURE is consistently greater than 140 mm	LOOD PRESSURE DETERMINATION), hypertension is Hg or when DIASTOLIC PRESSURE is consistently 90 mm Hg
PubMed search builder options Subheadings:		
adverse effects blood cerebrospinal fluid chemically induced chemistry classification complications congenital cytology diagnosis	epidemiology etiology genetics history immunology legislation and jurisprudence metabolism microbiology mortality	 physiopathology prevention and control psychology radioraphy radionuclide imaging radiotherapy rehabilitation statistics and numerical data surgery therapy
diet therapy drug effects drug therapy economics embryology enzymology	oursing parasitology pathology pharmacology physiology	transmission ultrasonography urine veterinary virology



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4. Now, near the top right of the screen, click the "Add to Search Box" button.



5. If you have another term to search, clear the top search box and repeat steps 3 and 4.

		Pubmed Search Builder	
Se	arch results	("Hypertension" [Mesh])	
Ite	ms: 1 to 20 of 39 Selected: 1 <<< Rist < Prev Page 1 of 2 Next > Last >>	AND ASPITIN [MeSh]	
V	Aspirin		
1.	The prototypical analgesic used in the treatment of mild to moderate pain. It has anti-inflammatory and antipyretic properties and acts as an inhibitor of unloavy analyse which results in the inhibition of the biosynthesis of prostandanding. Asside also inhibit platelet	Add to search builder AND V	
	agregation and is used in the prevention of arterial and venous thrombosis. (From Martindale, The Extra Pharmacopoeia, 30th ed, p5)	Search PubMed	Tutorial
	Teal Introduced, 1905	Tou	Tutonal

6. Once you have entered all of you terms, select "Search PubMed.



7. Combine searches and then limit your search as necessary (See "Combining Searches" and "Limiting Results" sections in the Basic Searching in PubMed handout).

NCBI – Saving Searches & Creating PubMed Alerts

To permanently save your search and get PubMed Alerts on new citations:

1. Sign up for a NCBI account (link is always on the upper right corner)

2. Click "Create alert" option below the PubMed Search box. This will either prompt you to log in to NCBI, or automatically take you there if you're already logged in. You can rename your search if you like.

3. Click the "Save" button.

4. Making your search settings: Make your selection on when you want to get alerts. **ALWAYS CHANGE THE FORMAT TO ABSTRACT AND INCREASE YOUR NUMBER OF ITEMS TO MAXIMUM NUMBER.** This allows you to get all available links to articles and makes sure don't miss out on all of the new citations have been added to PubMed.





5. Click the "Save" Button when you are finished.

Save Search successful.	
Your PubMed search	
Search: aspirin and hypertension	
Filters: 5 years	
Name of Search: aspirin and hypertension	
E-mail: chris-childs@uiowa.edu	
Would you like e-mail updates of new search results?	
No thanks.	
Yes, once a month.	
Which day? the first Saturday	
Yes, once a week.	
Which day? Tuesday 💌	
Yes, every day.	
Formats:	
Report format: Abstract 💌 🚽	
Number of items:	
Send at most: 200 items 🔽 🗆 Send even when there are	en't any new results
Any text you want to be added at the top of your e-mail (opti	ional):
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Save Cancel Delete	

To permanently save individual citations:

- 1. Click on the checkbox next to each citation you want to save.
- 2. Click on the "Send to" drop down menu and select the "Collections" option.
- 3. Click the "Add to Collections" button.

	Jenu to. 🕐 Filter your R	esuits
	Choose Destination	
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	Collections	1
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<u>)r</u>	Citation manager	
ι	Add 3 items.	
	Add to Collections	

4. Select "Create a New Collection", give your collection a name and click the "Save" button.

3 items from PubMed	
What would you like to do?	
Create new collection	
Append to an existing collection	
o reporte to an oxidarily concernent	
Enter a name for your collection:	Aspirin AND Hypertensio
Save	
Or cancel and return to your selection	ns.

If you want to put more citations in this particular collection, follow the same steps, but when you get into your NCBI account, select "Append to an existing collection", select your collection and click the "Save" button.

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Or cancel and return to your selections

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You can open up any search or collection that you save in your NCBI account by clicking the link to the title of the search or collection. You can also make changes to your saved search settings or make any of your collection public (by giving them a URL that you can share) by clicking on the cog icon next any of your saved searches or collections.

Saved Searches					
Search Name	Search Name		at's New	Last Searched	
PubMed Searches					
aspirin and hypertension	0	-	0 toda	у	
			Manage Sav	ed Searches »	
Collections					
Collection Name		Items	Settings/Sharing	Туре	
Favorites	<u>edit</u>	0	Private	Standard	
My Bibliography	edit	3	Private	Standard	
Other Citations	edit	0	Private	Standard	
Aspirin AND Hypertension	edit	1	Private	PubMed	
			Manag	e Collections »	

