# Developing a Research Strategy with PubMed

Learn Resource Center



Rocky Mountain University of Health Professions

# Learning Objectives

- Set up your MyNCBI account and learn how this will help you
- Understand MeSH Terms and be able to apply them in a search strategy.



### What Does a MyNCBI Account Do?

Virtually all databases allow the creation of a personal account within our institutional account. A personal account let's you save searches, set up alerts, and create bibliographies. This is true of EBSCO, Embase, Ovid, and Google Scholar.



# Setting up a MyNCBI Account

### To set up a MyNCBI account in PubMed, click on Login.

Pub Med.gov		
Search PubMed		Search

If you already have an account, it says, "Welcome back!" You can use the Google option with a personal Google account. The Microsoft option will not let you use your rm.edu or a business address. Follow the instructions to set up your account. Be aware that RMU doesn't have any control over NCBI. We can't reset passwords. Contact their "Help Desk" with your questions.





### **Access Your Account**

# PubMed now shows the account name, which, in my case, is rmuohp. Click on your account name. Click on "Dashboard."



Log out

# Tour of My NCBI

You can customize your site (upper right-hand corner), create bibliographies, view "Recent Activities," access any "Saved Searches," and set up links to take you to the full text in RMU's subscriptions.

#### My NCBI



Customize this page | NCBI Site Preferences | Video Overview | Help

# Set up Preferences

			Customize this page   NCBI Site Preferences   Video Overview   Help	1
Search NCBI databases		Saved Searches		]
Search : PubMed	Search	PubMed Searches	Search Name What's New Last Searched	

# 1. In the top right, click "NCBI Site Preferences."

NIH National Lib	rary of Medicine	👤 rmuohp
My NCBI » Preferences		Preferences help
<b>Note:</b> Your account password, hyperlinked username at the to	email address, and linked accounts are managed in the <u>Account Settin</u> op right of NCBI web pages.	ngs page. You can also access this page by clicking on your
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Outside Tool	Rocky Mountain University of Health Professions	"Outside Lool."
Author information	Off	
<u>Result Display Settings</u>	Summary	

# Set up Filters

3. Click "R" at the top of the page to jump to the Rs. Scroll down to find Rocky Mountain University.

4. Click the box to the left.That's it. You are done.There is no "submit" or"save" button.

Return to PubMed.





# Outside Tools Links You to RMU Full-Text

### The Outside Tool links your account with our full-text holdings.



Click "Full Text Option" to reach the full text or a link to request that article through Interlibrary Loan.

### Using PubMed, Mesh Terms

In the last PowerPoint, we searched PubMed using Automatic Term Mapping (ATM). This time, we will look at using MeSH terms as a different search option in PubMed.

PubMed is a free search engine for Medline, a government database created by the National Library of Medicine (NLM). It includes articles on clinical medicine, nursing, allied health, pharmacology, and basic science. One advantage of using PubMed is the use of MeSH terms.



# MeSH Terms

### So, what is MeSH?

MeSH (Medical Subject Headings) is the (U.S.) National Library of Medicine's controlled vocabulary thesaurus and is used for indexing articles for MEDLINE. It is a set of terms naming descriptors in a hierarchical structure that enables you to search at various levels of specificity.

## To simplify

There are many words to describe the same concept. For example, Brain Cancer can be called:

Brain Cancer	Brain Cancers
Brain Tumor	Brain Tumors
Brain Neoplasm	Brain Neoplasms
Intracranial Neoplasm	Intracranial Neoplasms
Malignant Brain Tumor	Malignant Brain Tumors
Benign Brain Tumor	Benign Brain Tumors
Primary Brain Tumor	Primary Brain Tumors

Rather than incorporate all these terms into your search, you can use the MeSH term assigned to this concept and get them all.

#### Next, how to do that.



# Searching for MeSH Terms

MeSH terms are one of many tools you can use in PubMed. MeSH terms can be mixed with other search terms. Here is how it works.

From the main screen, click on MeSH Database. Once it loads, type your term(s) in the search box.





### PubMed Search Builder

We will use our search from the previous PowerPoint: Medical Marijuana as a Treatment for Anxiety or Depression. There is only one term in the MeSH database for medical Marijuana. You can select a more specific term under this heading, like "therapeutic

use," but it is not required. You can see the other entry terms for this heading. Put the general term in the "PubMed Search Builder" on the terms can be added in the same manner.



### PubMed Search Builder

Searching the MeSH database of "treatment." Here, there are 54 options. Scrolling down, click the box by #12, "Treatment Outcome." Scroll back up and add to the Search Builder.

#### PubMed Search Builder

("Medical Marijuana"[Mesh]) AND "Treatment Outcome"[Mesh]

#### Treatment Failure

11. A measure of the quality of health care by assessment of unsuccessful results of management and procedures used in combating disease, in individual cases or series. Year introduced: 1993

#### Treatment Outcome

<sup>2</sup>. Evaluation undertaken to assess the results or consequences of management and procedures used in combating disease in order to etermine the efficacy, effectiveness, safety, and practicability of these interventions in individual cases or series. In introduced: 1992

#### Sub ance Abuse Treatment Centers

 Health\_acilities providing therapy and/or rehabilitation for substance-dependent individuals. Methadone distribution centers are included.

Year introduced: 1994

#### Treatment Refusal

14. Patient or client refusal of or resistance to medical, psychological, or psychiatric treatment. (APA, Thesaurus of Psychological Index Terms, 8th ed.) Year introduced: 1991

#### Residential Treatment

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15. A specialized residential treatment program for behavior disorders including substance abuse. It may include therapeutically planned group living and learning situations including teaching of adaptive skills to help patient functioning in the community. (From Kahn, A. P. and Fawcett, J. Encyclopedia of Mental Health, 1993, p320.) Year introduced: 1966(1964)

#### Emergency Treatment

16. First aid or other immediate intervention for accidents or medical conditions requiring immediate care and treatment before definitive medical and surgical management can be procured. Year introduced: 1998



Search PubMed

# PubMed Search Builder

The last term is "anxiety disorder." Only four options appear for this MeSH search. Select the term by clicking the box and then "Add to search builder." PubMed defaults to "AND," but it can be changed by clicking the dropdown arrow. To run the search, click "Search PubMed."



### PubMed Search Builder Results

And our results? Zero! How many did we get with EBSCO? Thousands! Do not despair and assume MeSH terms don't work. PubMed is a smaller database than EBSCO and MeSH terms are more precise.

I could delete this search and pretend it never happened. However, this illustrates a point: research is messy.

Rerunning this search without the "treatment" term brings five good articles.

(("Med	dical Marijuana"[Mesh]) AND ("Treatment Outcome"[Mesh])) /	AND ("Anxi $\epsilon imes$	Search
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		Sorted by	r: Best match 🛱
No result	s were found.		
ub Med.gov	("Medical Marijuana"[Mesh]) AND ("Anxiety Disorders"[Mesh]) Advanced Create alert	× s	Search User Guide
	Save Email Send to	Sorted by: Best	match 💠
All (5) acky Mountain University of lealth Professions (0)	5 results Is cannabis treatment for anxiety, mood, and related disorder Turna J, Patterson B, Van Ameringen M. Depress Anxiety. 2017 Nov;34(11):1006-1017. doi: 10.1002/d	ers ready for prime ti a 22664. Epub 2017 Jun :	me? 21.
ESULTS BY YEAR	PMID: 28636769 Access Options Review.		- 1
2017 2020	Self-medication of mood and anxiety disorders with marijua medical marijuana laws, Sarvet AL, Wall MM, Keyes KM, Offson M, Cerdá M, Hasin DS	ina: Higher in states s.	with

# **Research: Summary**

#### Takeaways:

- Set up your MyNCBI account to get links to full-text
- Break your research question into basic concepts
- MeSH terms are a useful tool
- Don't despair when your search returns zero results
- Contact your librarians for help



Next Steps

#### **More PowerPoints**

- The Tinker Toy Research Method
- Finding Full Text/Requesting Articles Through Interlibrary Loan
- More Research Tools
  - Embase
  - ProQuest



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