Search Strategy

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Goals & Objectives

- •Improve students' ability to construct strong search strategies in PubMed:
 - Basic terminology is explained
 - Appropriate usage examples are presented
 - Questions are supplied for practice

Introduction

 The old saying "Garbage in, garbage out" holds true for developing strong searching skills.

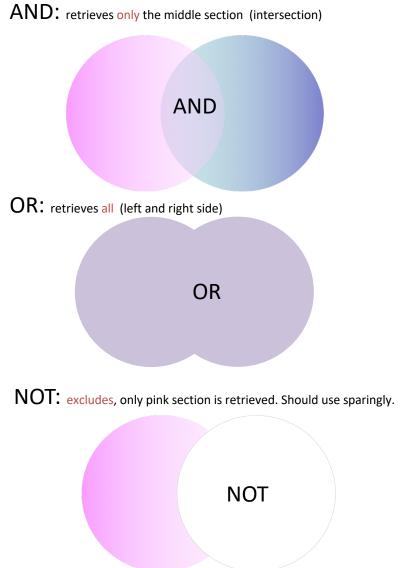
 If you "Ask" the right question, you will "Acquire" the information you are seeking.

Database Used — PubMed

- Examples are based on the PubMed database
 - PubMed is:
 - is Free
 - is available to anyone 24/7 on the Internet
 - has 26+ million records from over 5,500 publications
 - is updated daily
 - covers fields of:
 - medicine, nursing, dentistry, veterinary medicine, pharmacology, health care system, and allied health
 - is international in scope

Boolean Operators—Glossary

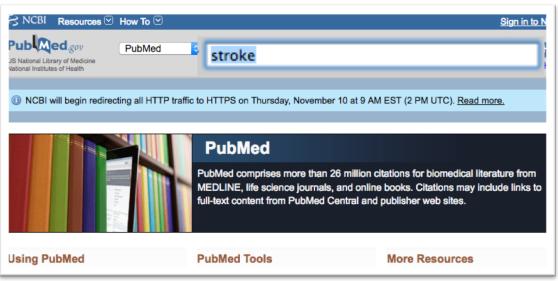
- Boolean Operators logic system used to combine search terms
 - AND
 - OR
 - NOT



Less is More!

If you focus on your topic,
even though you have fewer numbers,
your results will be more relevant!

Keywords



- Stroke (Keyword)retrieves 224,000+ records
- Keyword searching locates the term anywhere in the electronic record, even when the article's focus is on another topic.
- "Swimming strokes" will also appear in the results of this search on "stroke."

Keyword searching *also* locates very recent Clinical Trial Review articles that have not yet been indexed or tagged with *Subject Headings*.

And the type Clinical Trial Review Customize.

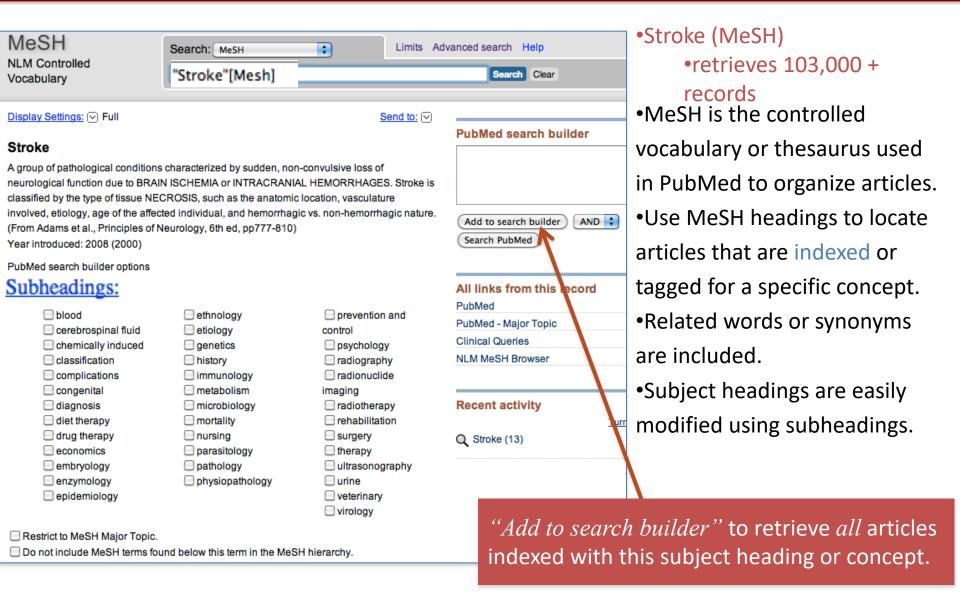
Text available Abstract Free full text Full text Full text.

NOTE: Results numbers were valid on the day the PPT was created. The database is updated daily so the numbers may change.

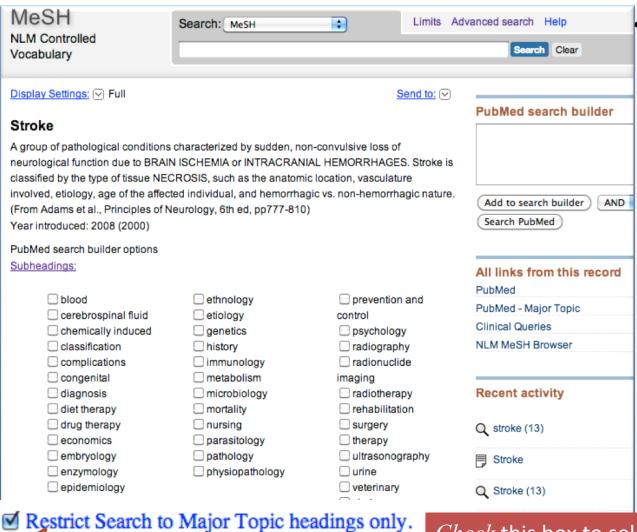
Article types Send to: ▼ Results: 1 to 20 of 224441 << First < Prev Page 1 of 11223 Next > Last >> Customize ... Measurement of Carotid Plaque Burden. Text availability Abstract Spence JD. Free full text JAMA Neurol. 2015 Feb 16. doi: 10.1001/jamaneurol.2014.3002. [Epub ahead of print] No abstract Full text PMID: 25686472 [PubMet - as supplied by publisher] PubMed Related citations Commons Reader comments Trending articles Application in Acute Kidney Injury. Publication Wu CH, Song JS, Chang KH, Jan JJ, Chen CT, Chou MC, Yeh KC, Wong YC, Tseng dates CT, Wu SH, Yeh CF, Huang CY, Wang MH, Sadani AA, Chang CP, Cheng CY, Tsou LK, Shia KS. 10 years J Med Chem. 2015 Feb 16. [Epub ahead of print] Custom range.. PMID: 25686267 [PubMed - as supplied by publisher] TEXAS T. Species Related citations HEALTH SCIENCES CENTER

Libraries of the Health Sciences

Medical Subject Headings (MeSH)



Major Headings



- Stroke (Majr)
 - •Retrieves 79.000+ records
 - Limiting the subject heading to "Major Topic" locates only those articles where the focus of the article is on this main concept.
 - NOTF: Fewer articles are located than when searching with MeSH; however, these articles are focused and more relevant to your search.

Do not include MeSH terms found below this term in the w

Check this box to select "Major Topic" when limiting articles to "Major Topic" ONLY.



Example of MeSH Relationship

A Anatomy

- A1 Body Regions
- A2 Musculoskeletal System
- A3 Digestive System
- A4 Respiratory System
- A5 Urogenital System
- A6 Endocrine System
- A7 Cardiovascular System
- A8 Nervous System
- A9 Sense Organs
- A10 Tissues
- A11 Cells
- A12 Fluids and Secretions
- **A13 Animal Structures**
- A14 Stomatognathic System
- A15 Hemic and

Immune Systems

A16 Embryonic Structures

A17 Integumentary System

All MeSH Categories Anatomy Category

Body Regions

Abdomen

Abdominal Cavity +

Abdominal Wall

Groin

Inguinal Canal

Umbilicus

Back

<u>Lumbosacral Region</u> Sacrococcygeal Region

Breast

Mammary Glands, Human

Nipples 1

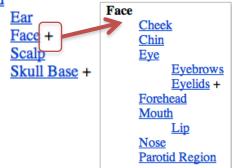
Extremities

Amputation Stumps

Lower Extremity +

Upper Extremity +

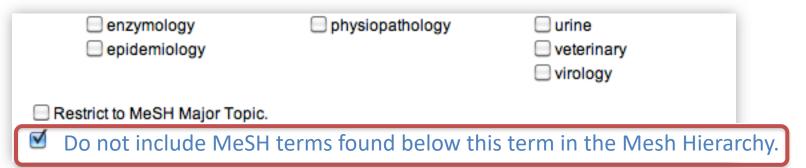
Head

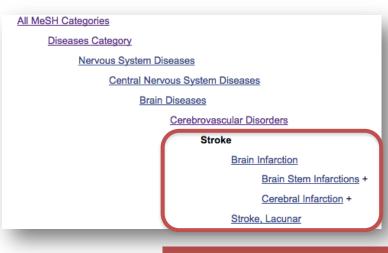


- MeSH is organized into thematic hierarchical categories.
- Themes are broken down into more specific concepts...
 i.e. subject headings.
- Articles are indexed (tagged) for the most specific concept.
- "+" signifies that there are more specific terms available e.g. Face + .
- MeSH vocabulary is updated annually.
- Most articles are tagged with 10–15 subject headings.



"Do not include indented MeSH terms"





i.e., Brain Infarction etc. is not included in this search because of our selection above.

- All subject headings indented and below the chosen subject heading "Stroke" will automatically be included in the search strategy *unless* the "Do not include..." option is selected.
- Automatic inclusion of these terms broadens the search as related subject headings are added automatically.

MeSH Subheadings

Stroke

A group of pathological conditions characterized by sudden, non-convulsive loss of neurological function due to BRAIN ISCHEMIA or INTRACRANIAL HEMORRHAGES. Stroke is classified by the type of tissue NECROSIS, such as the anatomic location, vasculature involved, etiology, age of the affected individual, and hemorrhagic vs. non-hemorrhagic nature. (From Adams et al., Principles of Neurology, 6th ed, pp777-810)

Year introduced: 2008 (2000)

blood

PubMed search huilder ontions

Subheadings:

- cerebrospinal fluid chemically induced classification complications congenital
- diagnosis diet therapy
- drug therapy
- economics embryology

- ethnology etiology genetics
- history
- metabolism
- microbiology
- nursing n
- parasitology pathology
- immunology mortality
 - surgery

prevention and

psychology

radiography

radionuclide

radiotherapy

rehabilitation

control

imaging

therapy ultrasonography

PubMed search builder

"Stroke/therapy"[Mesh]

Add to search builder Search PubMed

AND

All links from this record

PubMed

PubMed - Major Topic

Clinical Queries

NLM MeSH Browser

Recent activity

Q stroke (13)

Stroke

Stroke (MeSH) with subheading: "therapy" •Retrieves 43,830+ records

Stroke (Majr) with subheading: "therapy" •Retrieves 25,600+ records

Subheadings NARROW the subject heading.

e.g., diagnosis of stroke or genetics of stroke or therapy of stroke



Select as many descriptors as you need.



PubMed search builder

"Stroke/therapy"[Majr]

Add to search builder Search PubMed



MeSH Subheadings

Abnormalities Administration & dosage Adverse effects Agonists Analogs & derivatives Analysis Anatomy & histology Antagonists & inhibitors Biosynthesis Blood **Blood supply** Cerebrospinal fluid Chemical synthesis Chemically induced Chemistry Classification Complications Congenital Contraindications Cytology

Deficiency
Diagnosis
Diagnostic use
Diet therapy
Drug effects
Drug therapy

Economics
Education
Embryology
Epidemiology
Ethics
Ethnology
Etiology

Growth & development

Genetics

NOTE: Some subject/subheading combinations are not available e.g., STROKE/therapeutic use

History
Immunology
Injuries
Innervation
Instrumentation
Isolation

Legislation

Manpower Metabolism Methods Microbiology Mortality

Nursing

Organization

Parasitology
Pathegenicity
Pathology
Pharmacokinetics
Pharmacology
Physiology

Physiopathology
Poisoning
Prevention & control

Psychology

Radiation effects Radiography Radionuclide imaging Radiotherapy

Rehabilitation

Secondary Secretion

Standards

Statistics & numerical data Supply & distribution

Surgery

Therapeutic use

Therapy
Toxicity
Transmission
Transplantation

Ultrasonography Ultrastructure

Urine Utilization

Veterinary Virology

- Subheadings NARROW the subject heading.
- Usually they are combined with the subject heading

• e.g., Stroke/therapy ("stroke" is the subject heading & "therapy" the subheading.)

diagnosis
diet therapy
drug therapy

economics

embryology

Subheadings:

microbiology

nursing

parasitology

pathology

__ radiotherapy

rehabilitation

□ surgery
 ▼ therapy

ultrasonography



Advanced Search



PubMed ‡
Advanced

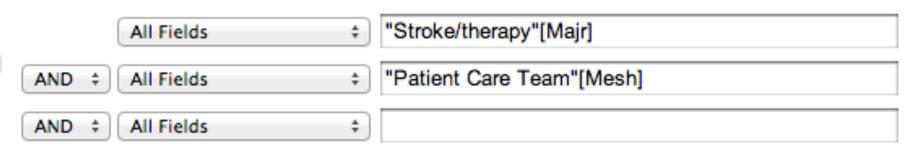
Download history Cle

103388



<u>#4</u>

Add



Search or Add to history

Search	Add to builder	Query	Items found	
<u>#10</u>	<u>Add</u>	Search ("Patient Care Team"[Mesh]) AND "Stroke/therapy"[Majr]	<u>476</u>	
<u>#9</u>	<u>Add</u>	Search "Patient Care Team"[Mesh]	59509	
<u>#7</u>	<u>Add</u>	Search "Stroke/therapy"[Majr]	30634	
<u>#6</u>	<u>Add</u>	Search "Stroke/therapy"[Mesh]	43839	
<u>#5</u>	<u>Add</u>	Search "Stroke"[Majr]	79065	

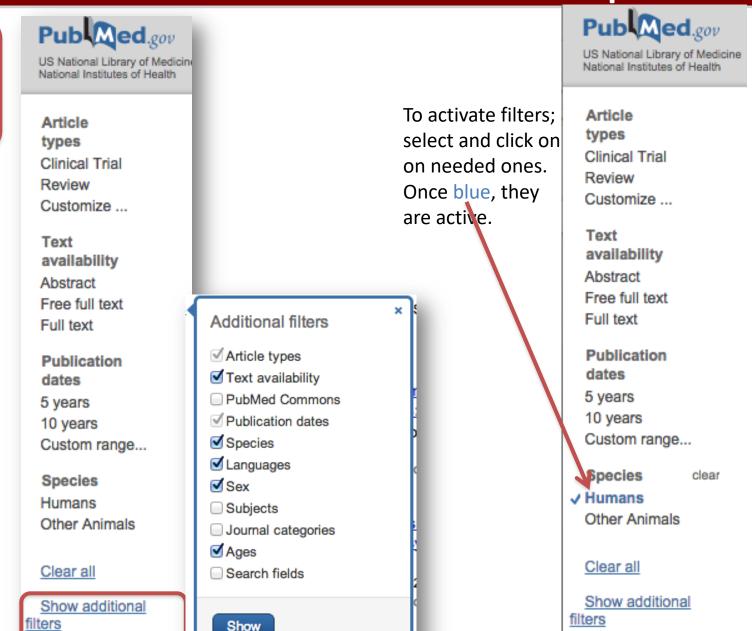
The Advanced Search page shows your search strategies and search results. These search statement numbers (e.g. #4 or #6) can be combined with each other, [AND], or with new search terms [#X] using Boolean logic operators "AND", "OR", "NOT".

NOTE: The result numbers in your search sets may be different since the database is updated DAILY!

Search "Stroke"[Mesh]

Filters – used to narrow down topic

Filters are located on the left-side of the results page.



Filters – used to narrow down topic



US National Library of Medicine National Institutes of Health

Article types

Clinical Trial

Review

Customize ...

Text availability

Abstract

Abstract

Free full text Full text

Publication

dates

5 years 10 years

Custom range...

Species

clear

√ Humans

Other Animals

Languages

English

Customize ...

Ages

Child: birth-18 years

Infant: birth-23 months

Adult: 19+ years

Adult: 19-44 years Aged: 65+ years

Customize ...

Clear all

Show additional filters

Commonly used modifiers are located within the "Filters" options.

The Boolean operator "OR" is the default operator within groups.

e.g., meta-analysis or practice guideline from the "Articles Types" grouping retrieves articles of either publication type.

The Boolean Operator "AND" is the default operator between groupings.

e.g., English from the "Languages" grouping combined with "Adult: 19+ years" retrieve articles that are in English and deal with adults over 19 years of age. All concepts must be present for retrieval.

See Boolean Slide



WHEN DO I USE...

- **Use MeSH** when unfamiliar with the topic and don't know how much has been written on the subject. It will give you the broadest search for your term as a **concept**.
- **Use Major:** If you find too much on the subject then go back to the MeSH database and start filtering (narrowing down) by choosing to only get those articles that are focused on your topic (Majr).
- **Attach subheadings** to either MeSH or Major: when you are interested in a particular facet of your concept.

Most importantly, you will use pieces of the database to construct what you hope will give you the answer to your question.

IT DEPENDS ON THE QUESTION!!!

- Sometimes your topic may be so small and already narrow that you only need to use MeSH.
 - Today 11/8/16 a search for Zika Virus Infections results in 372 articles
 - So will only need minimal work to narrow down.
 - Today 11/8/16 there are 952,781 articles on Heart Disease
 - You will definitely want to narrow this down.
- How? Maybe you are interested in population, then locate a 2nd MeSH term
 - e.g. African Americans and combine.
 - ("Heart Diseases"[Mesh]) AND "African Americans"[Mesh]

IT DEPENDS ON THE QUESTION!

- The indexers index/tag to the most specific level of subject heading.
 - Heart diseases is very broad so narrow the strategy to a more specific term: myocardial infarction [MeSH]
 - You are interested in prevention:
 - there is a subheading for prevention and control that can be used with myocardial infarction
 - ("Myocardial Infarction/prevention and control"[Mesh]) = 9,310 articles (2/8/16)Still too many!
 - So you may relook at your question and realize that what you really want are articles on the prevention of Myocardial Infarction in the African American population.
 - (2 MeSH headings and one of the MeSh headings has a subheading attached)
 - ("Myocardial Infarction/prevention and control"[Mesh]) AND "African Americans"[Mesh] = 13





REMEMBER: Combining two concepts (2 MeSH terms) also narrows your topic.

ACE inhibitors in African Americans with hypertension associated with worse outcomes as compared to other antihypertensives.

Lund LH¹.

Author information

Comment on

Outcomes with Angiotensin-converting Enzyme Inhibitors vs Other Antihypertensive Agents in Hypertensive Blacks. [Am J Med. 2015]

PMID: 26608476 DOI: 10.1136/ebmed-2015-110258

[PubMed - indexed for MEDLINE]







Publication Types, MeSH Terms, Substances

Publication Types

Comment

MeSH Terms

African Americans*

Angiotensin-Converting Enzyme Inhibitors/therapeutic use*

Antihypertensive Agents/therapeutic use*

Female

Humans

Hypertension/drug therapy*

Male

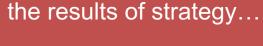
Myocardial Infarction/prevention & control*

Stroke/prevention & control*

Substances

Angiotensin-Converting Enzyme Inhibitors

Antihypertensive Agents



("Myocardial Infarction"[Mesh]) AND







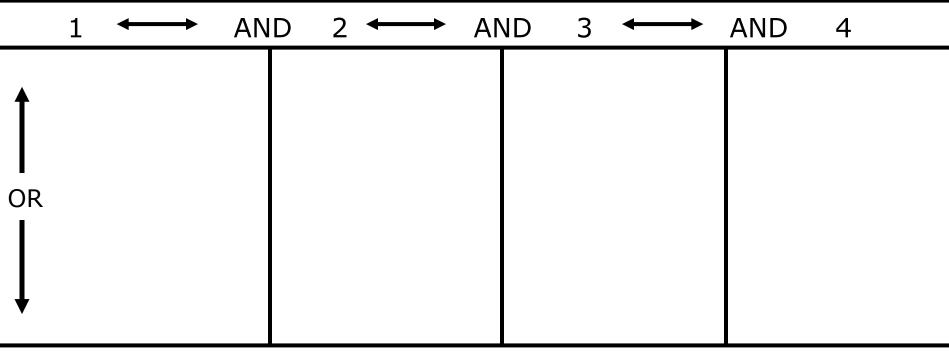
This article was one of

THE FOLLOWING SLIDES AND EXAMPLES WILL HELP YOU TO PRACTICE USING THESE CONCEPTS

Search Question:

This form can help organize your thought process.

Databases:



Do you need...?limiters such as:age groupssubheadingslanguagepublication typesdateshuman or animaljournal subsets

PubMed: How to Search Step-by-Step



① NCBI will begin redirecting all HTTP traffic to HTTPS on Thursday, November 10 at 9 AM EST (2 PM UTC). Read more.



PubMed

PubMed comprises more than 26 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

Using PubMed	PubMed Tools	More Resources
PubMed Quick Start Guide	PubMed Mobile	MeSH Database
Full Text Articles	Single Citation Matcher	Journal in NCBI Databases
PubMed FAQs	Batch Citation Matcher	Select
PubMed Tutorials	Clinical Queries	E-Utilities (API)

From the PubMed homepage Click on MeSH Database...to search by concept.



Review Point

 Using the major Boolean operators "And," "Or," and "Not," a search strategy can be refined to effectively locate articles on specific topics.

- True or false: The Boolean operator "And" means that an article MUST be indexed for "Both" terms
- (e.g., HELLP Syndrome "And" Pregnancy...both concepts will be in all the articles)

Review Point

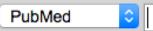
■ True

When using the Boolean operator "And," articles are indexed for both terms. Only the articles in the intersection will be retrieved.

See Boolean operators slide

PubMed: How to Search Step-by-Step





Search

Advanced

Help



MCBI will begin redirecting all HTTP traffic to HTTPS on Thursday, November 10 at 9 AM EST (2 PM UTC). Read more.



PubMed

PubMed comprises more than 26 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

Using PubMed

PubMed Quick Start Guide

Full Text Articles

PubMed FAQs

PubMed Tutorials

PubMed Tools

PubMed Mobile

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

More Resources

MeSH Database

Journa in NCBI Databases

Select

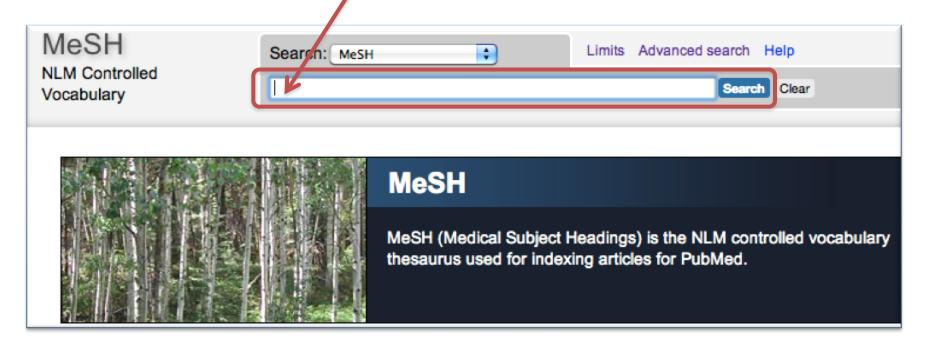
E-Utilities (API)

To search by subject heading from the PubMed homepage *Click* on MeSH Database...



Using MeSH

Step 1) On the MeSH page: Type needed term. Then Click "Search"



If your term does not show up...

Consider using synonyms and if they are MeSH headings they will display. Next, consider a broader term that may be helpful. If still having difficulties locating an appropriate MeSH term, consult your librarian.

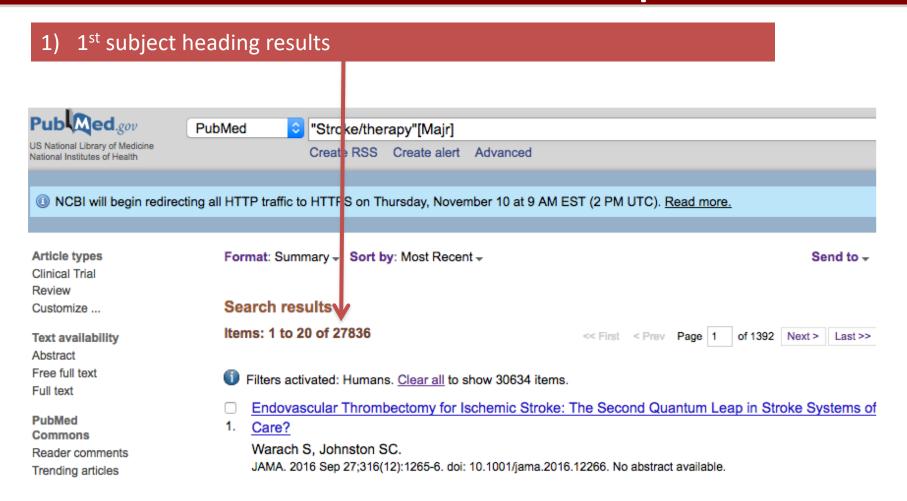
PubMed: How to Search Step-by-step

Step 1) From the MeSH page: Type needed term. Click "Search"

Step 2) *Select* subheading(s) (optional) based on your search needs. MeSH stroke Search MeSH Limits Advanced Step 3) Disply Settings:
✓ Full Send to: "Add to search builder" PubMed Search Builder Stroke Add to search builder AND ‡ erized by sudden, non-convulsive loss of neurological functi MORRHAGES. Stroke is classified by the type of tissue NE Step 4) Search PubMed such as the anatomic location, vasculature involved, etiology, age of the affected individual, and hemo vs. non-hemorrhagio nature. (From Adams et al., Principles of Neurology, 6th ed, pp777-810) Then: "Search PubMed" Year introduced: 2008 (2000) Add to search builder AND ‡ Search PubMed PubMed search builder options Subbadings: You Tube Tutorial analysis epidemiology physiopathology Related information anatomy and histology ethnology prevention and control PubMed etiology psychology PubMed - Major Topic Subheadings: genetics radiography Clinical Queries history radionuclide imaging CHEITHORNY INCOCCU classification immunology radiotherapy NLM MeSH Browser complications metabolism rehabilitation dbGaP Links congenital microbiology statistics and numerical MedGen cytology mortality data diagnosis nursing surgery therapy diet therapy organization and ultrasonography drug therapy administration Recent Activity urine economics parasitology Turn Off Clear embryology pathology veterinary Stroke physiology virology enzymology MeSH Restrict to MeSH Major Topic. Q stroke (15) Do not include MeSH terms found below this term in the MeSH hierarchy. MeSH

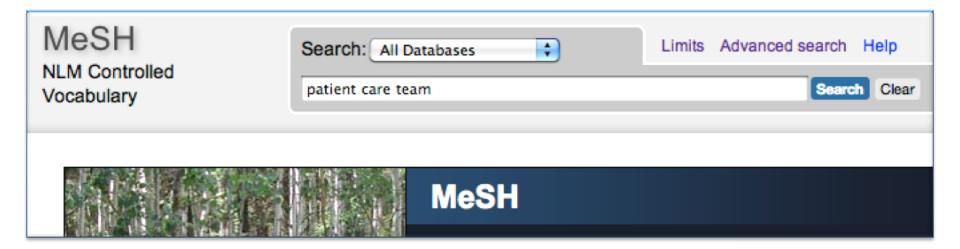
HEALTH SCIENCES CENTER.

PubMed: Results 1st Concept

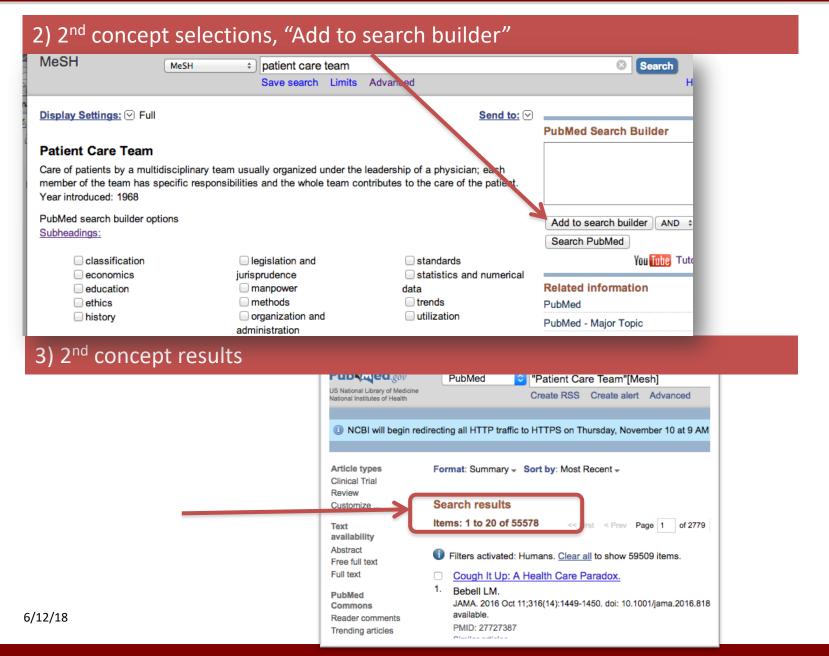


Using MeSH – 2nd Concept

1) Repeat steps/selections with 2nd concept



Using MeSH – 2nd concept

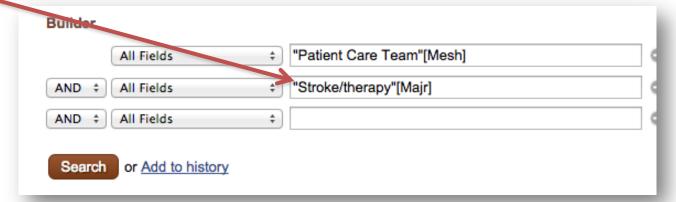


32

Using Advanced Search with "And"

Add to builder	Query	Items found
Add	Search "Patient Care Team"[Mesh]	55627
Add	Search "Patient Care Team"[Mesh] Filters: Humans	51827
Add	Search "Stroke/therapy"[Majr]	25694
Add	Search "Stroke/therapy"[Majr] Filters: Humans	23314

- Click on "Add" to enter into 'Search Builder
- 2) Repeat with 2nd term
- 3) Then *Click* on SEARCH



Results after using Boolean "And"

Notice the search has been done with MeSH Headings (573) and then refine more using Major Headings (194)

History

Download history Clear history

Search	Add to builder	Query	Items found	Time
<u>#11</u>	Add	Search ("Stroke/therapy"[Majr]) AND "Patient Care Team"[Majr]	<u>194</u>	11:11:07
<u>#10</u>	Add	Search ("Stroke/therapy"[Mesh]) AND "Patient Care Team"[Mesh]	<u>573</u>	11:10:55
<u>#9</u>	Add	Search "Patient Care Team"[Majr]	24805	11:10:19
<u>#8</u>	Add	Search "Patient Care Team"[Mesh]	59509	11:09:59
<u>#7</u>	Add	Search "Stroke/therapy"[Majr]	30634	11:09:23
<u>#6</u>	Add	Search "Stroke/therapy"[Mesh]	43839	11:09:00

In order to narrow the topic further, the filters on the next screen can be applied. So *Click* on the "Items found" that you want to manipulate and then select filters from the filters list (next screen).

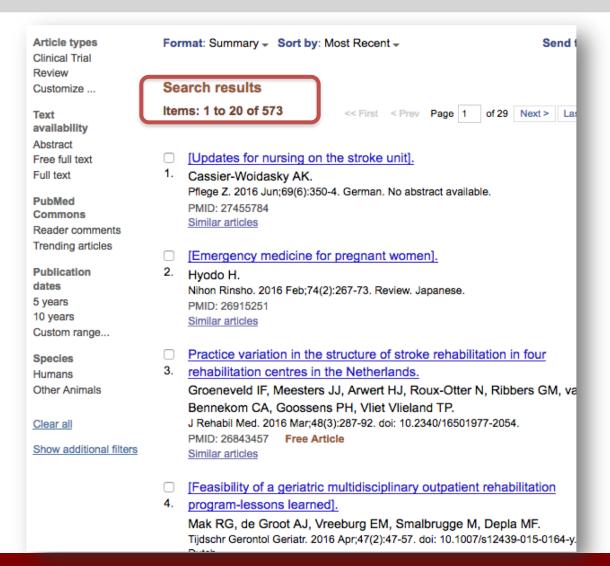
Results – Before filters



US National Library of Medicine National Institutes of Health PubMed 🗘

("Stroke/therapy"[Mesh]) AND "Patient Care Team"[Mesh]

Create RSS Create alert Advanced



Results after using "Filters

Article types Clinical Trial Controlled Trial Review Customize ... Text availability Abstract Free full text Full text PubMed Commons Reader comments Trending articles Publication dates 5 years 10 years Custom range... Species Humans Other Animals Languages ✓ English Customize ...

√ Randomized

Format: Summary - Sort by: Most Recent -

Send to -

Search results

Items: 3

Filters activated. Randomized Controlled Trial, published in the last 5 years, English, Middle Aged Aged: 45+ years. Clear all to show 573 items.

Baseline feature of a randomized trial assessing the effects of disease management programs for the prevention of recurrent ischemic stroke.

Fukuoka Y, Hosomi N, Hyakuta I, Omori I, Xo Y, Demura J, Kimura K, Matsumoto M, Moriyama M; DMP Stroke Trial Investigators..

J Stroke Cerebrovasc Dis. 2015 Mar;24(3):610-7. doi:

10.1016/j.jstrokecerebrovasdis.2014.10.007.

PMID: 25576351 Free Article

Similar articles

Effect on anxiety and depression of a multifactorial risk factor

intervention program after stroke and TIA: a randomized controlled trial.

Ihle-Hansen H, Thommessen B, Fagerland MW, Oksengård AR, Wyller TB, Engedal K, Fure B.

Aging Ment Health. 2014 Jul;18(5):540-6. doi: 10.1080/13607863.2013.824406.

PMID: 23957255

Similar articles

clear

Ages

Child: birth-18 years

Infant: birth-23 months

Adult: 19+ years

Adult: 19-44 years

✓ Middle Aged + Aged: 45+ years

Aged: 65+ years 6/12/18Customize ...

Implementation of evidence-based treatment protocols to manage fever, hyperglycaemia, and swallowing dysfunction in acute stroke (QASC): cluster randomised controlled trial.

Middleton S, McElduff P, Ward J, Grimshaw JM, Dale S, D'Este C, Drury P, Griffiths R, Cheung NW, Quinn C, Evans M, Cadilhac D, Levi C; QASC Trialists Group...

Lancet. 2011 Nov 12;378(9804):1699-706. doi: 10.1016/S0140-6736(11)61485-2.

PMID: 21996470 Similar articles

There are 3 articles focused on your specific research topic!

(These numbers may change over time.)

To view further information on article(s), click on small box(es) next to number(s).



To view "Abstract", select "Summary" and then select format of interest in pulldown menu.

When just interested in One article *Click* on the title to view abstract.

Abstract Format

Lancet. 2011 Nov 12;378(9804):1699-706. doi: 10.1016/S0140-6736(11)61485-2. Epub 2011 Oct 11.

Implementation of evidence-based treatment protocols to manage fever, hyperglycaemia, and swallowing dysfunction in acute stroke (QASC): a cluster randomised controlled trial.

Middleton S¹, McElduff P, Ward J, Grimshaw JM, Dale S, D'Este C, Drury P, Griffiths R, Cheung NW, Quinn C, Evans M, Cadilhac D, Levi C; QASC Trialists Group.

Author information

Abstract

BACKGROUND: We assessed patient outcomes 90 days after hospital admission for stroke following a multidisciplinary intervention targeting evidence-based management of fever, hyperglycaemia, and swallowing dysfunction in acute stroke units (ASUs).

METHODS: In the Quality in Acute Stroke Care (QASC) study, a single-blind cluster randomised controlled trial, we randomised ASUs (clusters) in New South Wales, Australia, with immediate access to CT and on-site high dependency units, to intervention or control group. Patients were eligible if they spoke English, were aged 18 years or older, had had an ischaemic stroke or intracerebral haemorrhage, and presented within 48 h of onset of symptoms. Intervention ASUs received treatment protocols to manage fever, hyperglycaemia, and swallowing dysfunction with multidisciplinary team building workshops to address implementation barriers. Control ASUs received only an abridged version of existing guidelines. We recruited pre-intervention and post-intervention patient cohorts to compare 90-day death or dependency (modified Rankin scale [mRS] ≥2), functional dependency (Barthel index), and SF-36 physical and mental component summary scores. Research assistants, the statistician, and patients were masked to trial groups. All analyses were done by intention to treat. This trial is registered at the Australia New Zealand Clinical Trial Registry (ANZCTR), number ACTRN12608000563369.

FINDINGS: 19 ASUs were randomly assigned to intervention (n=10) or control (n=9). Of 6564 assessed for eligibility, 1696 patients' data were obtained (687 pre-intervention; 1009 post-intervention). Results showed that, irrespective of stroke severity, intervention ASU patients were significantly less likely to be dead or dependent (mRS ≥2) at 90 days than control ASU patients (236 [42%] of 558 patients in the intervention group vs 259 [58%] of 449 in the control group, p=0·002; number needed to treat 6·4; adjusted absolute difference 15·7% [95% CI 5·8-25·4]). They also had a better SF-36 mean physical component summary score (45·6 [SD 10·2] in the intervention group vs 42·5 [10·5] in the control group, p=0·002; adjusted absolute difference 3·4 [95% CI 1·2-5·5]) but no improvement was recorded in mortality (21 [4%] of 558 in intervention group and 24 [5%] of 451 in the control group, p=0·36), SF-36 mean mental component summary score (49·5 [10·9] in the intervention group vs 49·4 [10·6] in the control group, p=0·69) or functional dependency (Barthel Index ≥60: 487 [92%] of 532 patients vs 380 [90%] of 423 patients; p=0·44).

INTERPRETATION: Implementation of multidisciplinary supported evidence-based protocols initiated by nurses for the management of fever, hyperglycaemia, and swallowing dysfunction delivers better patient outcomes after discharge from stroke units. Our findings show the possibility to augment stroke unit care.

FUNDING: National Health & Medical Research Council ID 353803, St Vincent's Clinic Foundation, the Curran Foundation, Australian Diabetes Society-Servier, the College of Nursing, and Australian Catholic University.

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Comment in

THE REAL HURS

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Review Organised in chrane Database Syst

Review Continuous v chrane Database Syst

Related citations in PubMed

Fever, hyperglycaemia swallowing [Implemer

Quality in Acute Stroke (QASC): proce [Int J S

Death, dependency ar status 90 day [Intern N

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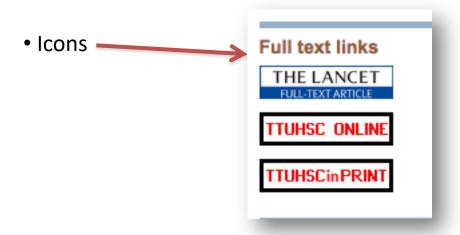
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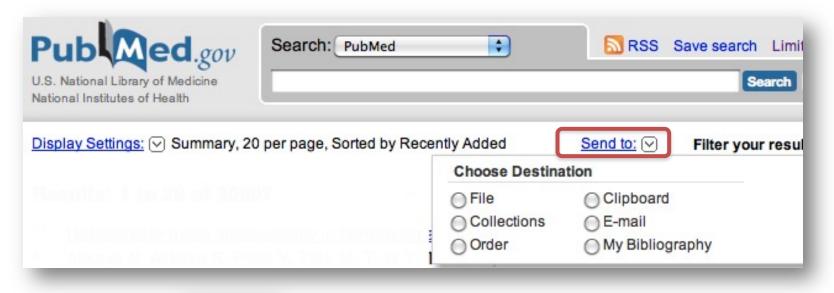


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Practice Question #1

 Research current trends and utilization of health care services in rural Texas.

- POSSIBLE ANSWER is on the next page.
- You may want to try searching for this topic before moving on.

Answer: Practice Question #1

Add to builder	Query	Items found
Add	Search ("Texas"[Mesh]) AND (("Rural Health Services/trends"[Mesh] OR "Rural Health Services/utilization"[Mesh]))	<u>5</u>
Add	Search ("Rural Health Services/trends"[Mesh] OR "Rural Health Services/utilization"[Mesh])	<u>1063</u>
Add	Search "Texas"[Mesh]	<u>23656</u>

This is a possible strategy to answer Practice question #1. (Read strategy from the bottom up.)

NOTE: As the database is updated daily the "Results" numbers may change. Therefore the document retrieval numbers have been removed.

This strategy located 5 articles on November 9, 2016

Locating the correct subject heading or MeSH term and then using appropriate subheadings creates a good strategy for this question.

Practice question #2

- Does use of finasteride prevent the risk of developing prostate cancer in the male population over 65 years of age?
- Limit to Randomized Controlled Trial, English and Human

- POSSIBLE ANSWER is on the next page.
- You may want to try searching for this topic before moving on.

Practice Question 2: Strategy 1

Keeping it simple and to the point works!

Add	Search (("Finasteride"[Mesh]) AND "Prostatic Neoplasms"[Mesh]) AND "Risk" [Mesh]	<u>97</u>
Add	Search "Risk"[Mesh]	958097
Add	Search "Prostatic Neoplasms"[Mesh]	104975
Add	Search "Finasteride"[Mesh]	<u>1941</u>

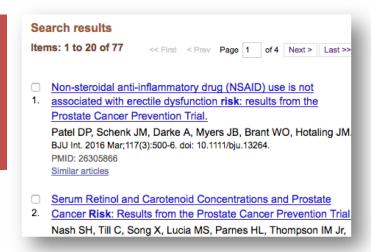
However, if your results are too many...try the next strategy on the following slide.

This is a possible strategy to answer Practice question #2.

(Read strategy from the bottom up.)
NOTE: As the database is updated daily the
"Results" numbers may change.

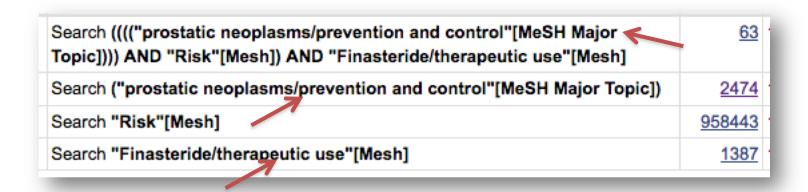
This strategy located 97 articles on November 9, 2016





Practice Question 2: Strategy 2

1. Subheadings and use of [Majr] concept narrows results.



This is a possible strategy to answer Practice question #2.

(Read strategy from the bottom up.)

NOTE: As the database is updated daily the "Results" numbers may change.

This strategy located 63 articles on November 10. 2016



Practice Question #3

- Can better communication among staff in the operating room prevent medical errors?
- POSSIBLE ANSWER is on the next page.
- You may want to try searching for this topic before moving on.

Answer: Practice Question #3

Search (("Interprofessional Relations"[Mesh]) AND "Surgical Procedures, Operative"[Mesh]) AND ("Medical Errors/prevention and control"[Mesh])	<u>58</u>
Search "Medical Errors/prevention and control"[Mesh]	<u>16587</u>
Search "Surgical Procedures, Operative"[Mesh]	2687400
Search "Interprofessional Relations"[Mesh]	60817

This is a possible strategy to answer Practice question #3.

(Read strategy from the bottom up.)

NOTE: As the database is updated daily the "Results" numbers may change.

Therefore the document retrieval numbers have been removed.

This strategy located 58 articles on November 10, 2016

Sometimes locating the obvious subject heading is not easy. Consider other synonyms that have similar meaning.

Summary...Final Points

- Using database tools appropriately increases relevancy and accuracy of results.
 - Boolean operators
 - Subject headings (MeSH)
 - Subheadings
 - Major headings
 - Filters

PubMed

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• Links to "Ask a Librarian" are located on the library homepage