

Basic Training 2025 for PhD students

PUBMED

Nagoya University Graduate School of Medicine
Medical Library

Contents

- Overview
- Basic search
- Advanced search
 - Advanced Search Builder
- How to use the functions
 - MeSH Database
 - NLM Catalog
 - Single Citation Matcher
 - Clinical Queries

Contents

- **Overview**
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What is "PubMed"?

- Free reference database on internet by National Library of Medicine in the United States
- Most of the included articles were written in English
- Contains Article information of biomedical literature
- Some articles have links to the full text

How to access it

- At the URL of Nagoya University (<https://pubmed.ncbi.nlm.nih.gov/?otool=ijpnagoulib>) , “NULink” in the library system is available.
- It is also available at the library Web site.

The screenshot shows the Nagoya University Medical Library website. The header includes the library logo and name in Japanese and English, along with links for School of Medicine, University Hospital, and Nagoya University. A navigation bar contains Home, Guide, Search for Materials, and Books/Journals News. The main content area features a search bar labeled 'NU OPAC' and a list of links. The link 'PubMed (URL for Nagoya Univ.)' is highlighted with an orange box. Other links include 'E-Journals & E-Books', 'MEDLINE(EBSCOhost) / Cochrane Collection(EBSCOhost)', and 'Ichushi-Web(JP)*On-campus only'. A calendar for May 2025 is also visible, and a photograph of the library building is on the right.

名古屋大学附属図書館医学部分館
Nagoya University Medical Library

School of Medicine University Hospital Nagoya University

Access Contact Us 日本語

Home Guide Search for Materials Books/Journals News

NU OPAC
Keywords

E-Journals & E-Books

PubMed (URL for Nagoya Univ.)

MEDLINE(EBSCOhost) /
Cochrane Collection(EBSCOhost)

Ichushi-Web(JP)*On-campus
only

2025年5月 May < Today >

SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Open 9:00-20:00

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PubMed top page

The image is a screenshot of the PubMed website's top page. It features a dark blue header with the NIH logo and the text "National Library of Medicine" and "National Center for Biotechnology Information". Below this is the "PubMed.gov" logo. A large search box is prominently displayed, with an orange callout pointing to it labeled "Search box". Below the search box is a green "Search" button. Underneath the search box, the word "Advanced" is visible. A paragraph of text follows, stating "PubMed® comprises more than 30 million citations for biomedical literature from MEDLINE, life science journals, and online books. Med Central and publisher web sites." An orange callout points to this text, labeled "History of search etc.". At the bottom of the page, there are four main sections: "Learn", "Find", "Download", and "Explore". Each section has an icon and a list of links. An orange callout points to the "Learn" section, labeled "Help".

NIH National Library of Medicine
National Center for Biotechnology Information

PubMed.gov

Search box

Search PubMed Search

Advanced

PubMed® comprises more than 30 million citations for biomedical literature from MEDLINE, life science journals, and online books. Med Central and publisher web sites.

History of search etc.

Learn

- About PubMed
- FAQs & User Guide
- Finding Full Text

Find

- Advanced Search
- Clinical Queries
- Single Citation Matcher

Download

- E-utilities API
- FTP
- Batch Citation Matcher

Explore

- MeSH Database
- Journals
- Legacy PubMed (available until at least 9/30/2020)

Help

Keywords

- Both upper-case and lower-case letters are accepted.
- Stop words (a, the, in, of, ...) are not necessary.
 - ✕ Lower-case "**and**" is treated as a stop word.
- **Keywords connected by a space are interpreted "**AND**"**
- **Phrase should be expressed in **Double quotation marks**.** Ex) "**lung cancer**"

Search articles by author and journal

- Search by author

Family name space initial of given name (It is possible to search Researcher ID **ORCID**.)

- Search by journal title

Full title: Journal of Clinical Oncology

Abbreviation: J Clin Oncol

ISSN: 0732-183X ← **The hyphen is necessary.**

Journal search : NLM Catalog

Boolean Operators • truncation

- Operators
AND OR NOT in upper-case letters
- Left-hand match
 - Put * (**asterisk**) at the end of a word.
 - Be aware of no automatic mapping.
 - "librar*" can search "library", "libraries", "librarian", etc. at the same time.
- No right-hand match nor mid match

Search filters

- Field tag is used to restrict field of search.
 - **[tab] after keyword**
 - The tag is **[au]** for author, **[ta]** for journal name, **[ti]** for title of article, **[la]** for language, etc
- Frequently applied search
 - Ex) In case of search for article title and abstract, **[tiab]** excludes journal name for search.
- Be aware of no automatic mapping.

MeSH (Medical Subject Headings)

- MeSH : National Library of Medicine (NLM) controlled vocabulary **thesaurus**
 - 10-15 MeSH terms per one article
 - Major Topic of article are shown with * (**asterics**) at the end of MeSH terms
- Subheadings
 - They are shown by "/" after MeSH terms.
 - **Analysis**、**Diagnosis**、**Therapy**、**Nursing** etc.
- Search by MeSH includes the lower level of terms as a default.

> Lung Neoplasms / diagnosis
> Lung Neoplasms / epidemiology*
> Lung Neoplasms / mortality*
> Lung Neoplasms / therapy

Automatic term mapping

- The input term is changed to appropriate MeSH term, phrase, journal name, or author name, then start searching.
- The details of changes are shown in the box of "**Advanced**".

The screenshot displays the 'History and Search Details' window. At the top, there are 'Download' and 'Delete' icons. Below is a table with columns: Search, Actions, Detail, Query, Results, and Time. The first row shows search #1 with a 'Details' button highlighted by an orange box and a callout that says 'Click "Details"'. The 'Query' column contains the search text: 'Search: lung cancer' followed by a complex MeSH query: '"lung neoplasms"[MeSH Terms] OR ("lung"[All Fields] AND "neoplasms"[All Fields]) OR "lung neoplasms"[All Fields] OR ("lung"[All Fields] AND "cancer"[All Fields]) OR "lung cancer"[All Fields]'. An orange callout labeled 'Field' points to the 'MeSH Terms' part of the query. The 'Results' column shows '371,802' and the 'Time' column shows '21:24:52'. Below the query, there is a 'Translations' section with the text: 'lung cancer: "lung neoplasms"[MeSH Terms] OR ("lung"[All Fields] AND "neoplasms"[All Fields]) OR "lung neoplasms"[All Fields] OR ("lung"[All Fields] AND "cancer"[All Fields]) OR "lung cancer"[All Fields]'.

Search	Actions	Detail	Query	Results	Time
#1	...	Click "Details"	Search: lung cancer "lung neoplasms"[MeSH Terms] OR ("lung"[All Fields] AND "neoplasms"[All Fields]) OR "lung neoplasms"[All Fields] OR ("lung"[All Fields] AND "cancer"[All Fields]) OR "lung cancer"[All Fields] Translations lung cancer: "lung neoplasms"[MeSH Terms] OR ("lung"[All Fields] AND "neoplasms"[All Fields]) OR "lung neoplasms"[All Fields] OR ("lung"[All Fields] AND "cancer"[All Fields]) OR "lung cancer"[All Fields]	371,802	21:24:52

Summary page

An official website of the United States government [Here's how you know](#)

NIH National Library of Medicine
National Center for Biotechnology Information

Log in

PubMed®

lung cancer

Advanced Create alert Create RSS

Order

Style

Save and send results

Save Email Send to

Sort by: Best match

Display options

MY CUSTOM FILTERS

RESULTS BY YEAR

1855 2025

PUBLICATION DATE

1 year
5 years
10 years

470,505 results

☐ **Lung Cancer 2020: Epidemiology, Etiology, and Prevention.**
1 Bade BC, Dela Cruz CS.
Cite Clin Chest Med. 2020 Mar;41(1):1-24. doi: 10.1016/j.ccm.2019.10.006. PMID: 32008623 Review.
Share Despite advances in our understanding of risk, development of effective prevention strategies remains the

☐ **Lung Cancer.**
2 Nasim F, Sabath BF, Eapen GA.
Cite Med Clin North Am. 2019 May;103(3):463-473. doi: 10.1016/j.mcna.2018.12.006. PMID: 30955514 Review.
Share

DISPLAY OPTIONS

Format Summary

Per page 10

Abstract snippets ☒ Show ☐ Hide

Click shows the detailed data and abstract

Author name, Journal, volume, page, article type, and language

Abstract

[Review](#) > [Med Clin North Am.](#) 2019 May;103(3):463-473. doi: 10.1016/j.mcna.2018.12.006.

Lung Cancer Journal, date of publication, volume, page

Faria Nasim¹, Bruce F Sabath¹, George A Eapen²

Affiliations + expand

PMID: 30955514 **PubMed number** 2018.12.006

Abstract

Lung cancer is the world's leading cause of cancer death. Screening for lung cancer by low-dose computed tomography improves mortality. Various modalities exist for diagnosis and staging. Treatment is determined by subtype and stage of cancer; there are several personalized therapies that did not exist just a few years ago. Caring for the patient with lung cancer is a complex task. This review provides a broad outline of this disease, helping clinicians identify such patients and familiarizing them with lung cancer care options, so they are better equipped to guide their patients along this challenging journey.

Keywords: Chemotherapy; Lung cancer; Screening; Smoking; Staging.

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Similar articles

[One hundred years of lung cancer.](#)
Spiro SG, Silvestri GA.
Am J Respir Crit Care Med. 2005 Sep 1;172(5):523-9. doi: 10.1164/rccm.200504-531OE. Epub 2005 Jun 16.
PMID: 15961694 [Review](#).

FULL TEXT LINKS

[ELSEVIER FULL-TEXT ARTICLE](#)

[NULink FIND FULL TEXT](#)

NULink (Reference guide)
Search for electric journals or hard copies in Nagoya University

[Favorites](#)

SHARE

[Twitter](#) [Facebook](#) [LinkedIn](#)

PAGE NAVIGATION

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Refinement of results

- Selection in the side bar
- Addition at “**Additional filters**”
- “Reset all filters” when cancelled
- Default
 - Results by year
 - Text availability
 - Article attribute
 - **Article type**
→ **RCT, systematic review, etc.**

MY CUSTOM FILTERS 

RESULTS BY YEAR



1855 2025

PUBLICATION DATE

☐ 1 year

☐ 5 years

☐ 10 years

☐ Custom Range

TEXT AVAILABILITY

☐ Abstract

☐ Free full text

☐ Full text

ARTICLE ATTRIBUTE

☐ Associated data

ARTICLE TYPE

☐ Books and Documents

Refinement of results

Items to be added at " See all article type filters"

- **Article type**

Guideline, Clinical Study, etc.

Items to be added at " Additional filters"

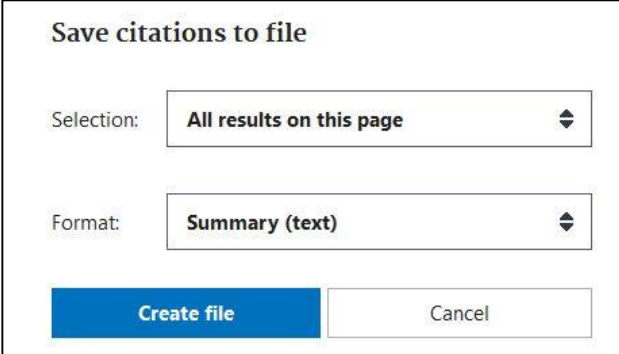
- Species : human / animal
- Language
- Sex
- Subject
- Journal : main/dental/nursing
- Age

Be aware that refinement may cause the leakage of necessary articles.

The screenshot displays a search filter interface. The top section, titled 'ARTICLE TYPE', contains a list of checkboxes for various publication types: Directory, Duplicate Publication, Editorial, Electronic Supplementary Materials, English Abstract, Equivalence Trial, Evaluation Study, Expression of Concern, Festchrift, Government Publication, Guideline, Historical Article, Interactive Tutorial, Research Support, U.S. Gov't, Non-P.H.S., Research Support, U.S. Gov't, P.H.S., Research Support, U.S. Gov't, Retracted Publication, Retraction of Publication, Review, and Scientific Integrity Review. The bottom section, titled 'Additional filters', includes three sub-sections: 'ARTICLE LANGUAGE' with checkboxes for English and Spanish, and a link 'See all article language filters'; 'SPECIES' with checkboxes for Humans and Other Animals; and 'SEX'.

Saving the results of search

- **Save** : download
 - Selection of results
 - Format for the saving



Save citations to file

Selection: All results on this page

Format: Summary (text)

Create file Cancel

Summary	The text
PubMed	To the file for sending to reference management soft
PMID	Only PubMed ID
Abstract	The text + Abstract
CSV	The text to a CSV file

Saving the results of search

- **“E-mail”** to the address specified
- **“Send to”** other software

Clipboard	Temporary saving in PubMed
My Bibliography	Saving in a reference list (NCBI account is necessary)
Collections	Saving in a folder (NCBI account is necessary)
Citation manager	Export to a reference management soft

How to use "Clipboard"

- Check the box before the title of article
→ **Send to** → **Clipboard**
- **Save at maximum 500 articles within 8 hours**
- Data in clipboard; Click **"Clipboard"** below the search box → Confirm the data
- When necessary, save in **"My NCBI"**
- To delete it, click "Remove from clipboard" or **"Remove all"**.

Practice 1

"Is allergy for egg contraindications of propofol?"

1. Search articles using the below keywords.
2. Restrict the articles published within 2019-2024.
3. Choose the first two articles, then copy to clipboard.
4. Output the contents in clipboard to a file using Citation manager.

Keywords	①propofol	②egg	③allergy
-----------------	------------------	-------------	-----------------

Hints

- Search using **Propofol AND "egg" AND allergy**.
- Restrict the period to 2019-2024.
- Click ☐ of the first two articles to put ✓.
- Select "Send to > Clipboard".
- Select "Go to the Clipboard page" in the popup, or select "Clipboard" in search box.
- Select "Send to > Citation manager".

Answer 1-1

PubMed **1** Propofol AND "egg" AND allergy × **Search** [User Guide](#)

[Advanced](#) [Create alert](#) [Create RSS](#)

[Save](#) [Email](#) **4** [Send to](#) Sort by: [Best match](#) [Display options](#)

MY NCBI FILTERS [✕](#)

RESULTS BY YEAR **2**

10 results **5** [Clipboard](#) [Clear selection](#) [Page 1 of 1](#)

☒ [My Bibliography](#)
☐ [Collections](#)
☐ [Citation manager](#)

3 ☒ [New perspectives on propofol allergy.](#)
2 Johnson JL, Hawthorne A, Bounds M, Weldon DJ.
Am J Health Syst Pharm. 2021 Dec 9;78(24):2195-2203. doi: 10.1093/ajhp/zxab298.
PMID: 34309659
SUMMARY: Literature regarding the history of **propofol allergy** warnings and clinical trial data were assessed to provide an alternative perspective on avoidance of **propofol** in patients with food **allergies**.

and reaction to propofol administration in a large pediatric
S, Lobo K, Cravero J.
;31(5):570-577. doi: 10.1111/pan.14147. Epub 2021 Feb 18.
PMID: 33529424
The secondary aim evaluated the relationship between food **allergy** history and **allergy** testing data.
METHODS: A retrospective chart review conducted between May 2012 and October 2018 identified pediatric patients listed allergic to **egg**, soy, and/or peanut, who ...

TEXT AVAILABILITY
☐ Abstract
☐ Free full text
☐ Full text

ARTICLE ATTRIBUTE

2019 2024

Answer 1-2

Propofol AND "egg" AND allergy

[Advanced](#) [Create alert](#) [Create](#) **6** [Clipboard \(2\)](#)



Move to page to Clipboard

Save

En **7**

Send to

Sorted by: Order added

Display options

My Bibliography

Collections

8 Citation manager

Create a file for external citation management software

Selection: All results

9 Create file

Cancel

Additional information

In this search, "**Clinical Practice Guideline for Emergency Department Procedural Sedation With Propofol: 2018 Update**" (Ann Emerg Med. 2019) wasn't searched.

- Use **Web of Science** for citation information search

The screenshot shows a search result in Web of Science. At the top, there are buttons for '0/31,073', 'マークリストに追加', and 'エクスポート'. On the right, there are filters for '関連度' and a page indicator '1 / 622'. The main entry is for a paper titled 'No evidence for contraindications to the use of propofol in adults allergic to egg, soy or peanut', listed as item 1. The authors are Asserhoj, LL; Mosbech, H; and Garvey, LH. The journal is the BRITISH JOURNAL OF ANAESTHESIA, published in Jan 2016. The abstract states that propofol is thought to be a potential cause of allergic reactions in patients allergic to egg, soy, or peanut, but current formulations contain an emulsion with egg lecithin and soybean oil. It concludes that there is no evidence linking the two types of allergic reactions. To the right of the entry, a box highlights the citation count '53' and the reference count '32'. At the bottom, there is a 'NULink' button and a link to the publisher's site for the full text.

0/31,073 マークリストに追加 エクスポート 関連度 1 / 622

1 No evidence for contraindications to the use of propofol in adults allergic to egg, soy or peanut 53
被引用数

Asserhoj, LL; Mosbech, H; Garvey, LH
Jan 2016 | BRITISH JOURNAL OF ANAESTHESIA 32
引用文献

Background: Propofol is thought to be a potential cause of allergic reactions in patients allergic to egg, soy or peanut, since current formulations contain an emulsion that includes egg lecithin and soybean oil. However, other than six case reports lacking in confirmatory evidence of an allergic reaction, there is no evidence linking the two types of ... 詳細を表示

NULink 出版社サイトによるフリー全文 関連レコード

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Advanced Search Builder

- Limit search fields
- Use search results and indexes
- Combine search histories
- Make more complicated formulas



Advanced Search Builder 1

Search restricting the field

- Input keywords, then select the field of interest. Click **"ADD"** to see automatic display of formula in search box.
- Click "Search" → Search → Results
- **"Add to history"** → add it to the search history

The screenshot displays the 'Advanced Search Builder' interface. At the top, a grey bar contains the text 'Add terms to the query box'. Below this, the main interface is divided into several sections. On the left, a dropdown menu labeled 'MeSH Terms' is highlighted with an orange box and the number '1'. To its right is a text input field containing 'Lung Neoplasms'. Further right, a blue button labeled 'AND' with a dropdown arrow is highlighted with an orange box and the number '2'. Below the 'Add terms to the query box' bar, there is a 'Query box' section. Inside it, the text 'Lung Neoplasms[MeSH Terms]' is displayed and underlined with an orange box. A callout box, also outlined in orange, points to this text and contains the same text 'Lung Neoplasms[MeSH Terms]'. To the right of the 'Query box' section, a blue button labeled 'Search' with a dropdown arrow is highlighted with an orange box and the number '3'. A 'Show Index' link is visible to the right of the 'AND' button. The page number '28' is located in the bottom right corner.

Advanced Search Builder 2

Search referring hit number and index

- Select the field, then input keywords.
- Click "**Show Index**" to show the list of keywords.
- Select a keyword from the list (CTRL+click for two or more keywords) , then click "Search", and "Add to History".

The screenshot displays the 'Advanced Search Builder 2' interface. On the left, there is a section titled 'Add terms to the query box' with a dropdown menu set to 'MeSH Terms' and a text input field containing 'lung neoplasms'. Below this is a 'Query box' with a placeholder text 'Enter / edit your search query here'. To the right of the input field, a list of search results is shown, each with a keyword and a hit count in parentheses: 'lung neoplasms (245,051)', 'lung neoplasms/analysis (7,423)', 'lung neoplasms/anatomy and histology (85,979)', and 'lung neoplasms/blood (6,492)'. The last item is highlighted. An orange callout box points to the 'Show Index' button and the list of results, with the text 'Automatic term mapping terms off.'.

Automatic term mapping terms off.

ADD

Show Index

Search

Advanced Search Builder 3

Refer the histories and reuse them

- **"Actions"** of History → **"Add query"**
→ Automatic display of formula in Query box

The screenshot illustrates the workflow for reusing a search history item in the Advanced Search Builder. It features two overlapping panels, each with a table titled "History and Search Details".

Top Panel:

- Table columns: Search, Actions, Details, Query.
- Row #1: The "Actions" column contains an ellipsis (three dots). An orange box labeled "1" highlights this ellipsis.
- Row #2: The "Details" column contains a right-pointing arrow. An orange box labeled "2" highlights this arrow.
- A dropdown menu is open from the ellipsis in row #1, showing options: "Add query", "Delete", and "Create alert". An orange box labeled "2" highlights the "Add query" option.
- An orange arrow points from the "Add query" option to the "Query box" above the table.
- The "Query box" contains the text: (Coryza) AND (antibacterial agent).

Bottom Panel:

- Table columns: Search, Actions, Details, Query.
- Row #1: The "Actions" column contains an ellipsis. An orange box labeled "3" highlights this ellipsis.
- A dropdown menu is open from the ellipsis in row #1, showing options: "Add with AND", "Add with OR", and "Add with NOT". An orange box labeled "3" highlights the "Add with AND" option.
- An orange arrow points from the "Add with AND" option to the "Query box" of the top panel.

Notes on search histories

- To clear the histories: "Delete"
- Automatic deletion 8 hours after
- If necessary, save the histories in **My NCBI**.
- #0 in clipboard

↓ Official video of Advanced Search Builder is available at

[https://www.nlm.nih.gov/oet/ed/pubmed/quickto
urs/advanced/index.html](https://www.nlm.nih.gov/oet/ed/pubmed/quickto
urs/advanced/index.html)

Practice 2

" Does antibiotics treatment for acute appendicitis improve the curability in comparison with operation? "

PICO	Keywords	MeSH
P	Acute appendicitis	"appendicitis"[MeSH Terms]
I	Antibiotics	"anti bacterial agents"[MeSH Terms] "anti bacterial agents"[Pharmacological Action]
Study design	RCT	"randomized controlled trial"[Publication Type]

✂ Pharmacological Action...search drugs with the same efficacy

Hints

"Does antibiotics treatment for acute appendicitis improve the curability in comparison with operation?"

1. Attach "**drug therapy**" to appendicitis[MeSH] as the subheading, then add it to the History.
2. Add anti bacterial agents[MeSH] to the History.
3. Add anti bacterial agents to History of **Pharmacological Action**.
4. Add the formula "**2 OR 3**" to the History.
5. Make the formula "**1 AND 4**", then search.
6. Limit with Randomized controlled trial.

Answer 2-1

1. Select **MeSH field**, and input "appendicitis" → Show Index → select "**appendicitis/drug therapy**"[MeSH Terms] → "ADD" → "Add to History"

The screenshot illustrates the process of adding a MeSH term to a query box, with five numbered steps:

- 1**: Select the **MeSH Terms** dropdown menu.
- 2**: Click the **Show Index** button.
- 3**: Select the term **appendicitis/drug therapy (592)** from the index list.
- 4**: Click the **ADD** button.
- 5**: Click the **Search** button.

The interface shows the term being added to the query box, which then displays the full term: **"appendicitis/drug therapy"[MeSH Terms]**.

Answer 2-2 • 2-3

2. Select **MeSH field**, and input "anti bacterial agents" → "ADD" → "Add to History "

Add terms to the query box

1 MeSH Terms anti bacterial agents 2 ADD

3. Select **Pharmacological Action**, and input "anti bacterial agents" → "ADD" → "Add to History "

Add terms to the query box

1 Pharmacological Action anti bacterial agents 2 ADD

Answer 2-4

4. Select **Add query** from Actions of formula 2 → Select **Add With OR** from Actions of formula 3

History and Search Details Download Delete

Search	Actions	Details	Query	Results	Time
#3	1	2	Search: anti bacterial agents[Pharmacological Action]	731,193	03:48:58
#2	...	Add query	anti bacterial agents[MeSH Terms]	394,350	03:37:46

Search	Actions	Details	Query	Results	Time
#3	...	4	anti bacterial agents[Pharmacological Action]	731,193	03:48:58
#2	3	Add with OR	anti bacterial agents[MeSH Terms]	394,350	03:37:46

Query box

(anti bacterial agents[MeSH Terms]) OR (anti bacterial agents[Pharmacological Action]) × Add to History

Answer 2-5

5. Select **Add query** from Actions of formula 1 → Select **Add With AND** from Actions of formula 4

History and Search Details

Download Delete

Search	Actions	Details	Query	Results	Time
#4	...	>	Search: (anti bacterial agents[MeSH Terms]) OR (anti bacterial agents[Pharmacological Action])	760,434	03:23:46
#3			Search: anti bacterial agents[Pharmacological Action]	732,076	03:23:41
#2	1	2	Search: an		
#1	...				

Showing 1 to 4 of 4

Delete
Create alert

History and Search Details

Download Delete

Search	Actions	Details	Query	Results	Time
#4	...		anti bacterial agents[MeSH Terms]) OR (anti bacterial agents[Pharmacological Action])	759,757	20:15:31
#3	...		anti bacterial agents[Pharmacological Action]	731,419	20:15:18
#2	...		anti bacterial agents[MeSH Terms]	394,539	20:15:06
#1	...		common cold/drug therapy"[MeSH Terms]	1,196	20:14:57

Showing 1 to 4 of 4 entries

37

Answer 2-6

6. Search using formula 5 → Select **"Randomized Controlled Trial"** from **"Article type"** in side bar.

The screenshot displays a search interface. At the top, a 'Query box' contains the search formula: `("appendicitis/drug therapy"[MeSH Terms]) AND ((anti bacterial agents[MeSH Terms]) OR (anti bacterial agents[Pharmacological Action]))`. To the right of the query box is a search button labeled '1' with a 'Search' label and a dropdown arrow. Below the query box, an orange arrow points to the 'ARTICLE TYPE' filter section. This section has a list of article types on the left, with 'Randomized Controlled Trial' selected and highlighted by an orange box labeled '2'. The selected filter results in two articles being displayed. The first article is titled 'Five-Year Follow-up of Antibiotic Therapy for Uncomplicated Acute Appendicitis in the APPAC Randomized Clinical Trial' (PMID: 25992746) and the second is 'Antibiotic Therapy vs Appendectomy for Treatment of Uncomplicated Acute Appendicitis: The APPAC Randomized Clinical Trial' (PMID: 30264120). Both are labeled as 'Free PMC article' and 'Clinical Trial'.

Query box

("appendicitis/drug therapy"[MeSH Terms]) AND ((anti bacterial agents[MeSH Terms]) OR (anti bacterial agents[Pharmacological Action]))

1 Search

ARTICLE TYPE

- ☐ Books and Documents
- ☐ Clinical Trial
- ☐ Journal Article
- ☐ Meta-Analysis
- ☒ Randomized Controlled Trial
- ☐ Review
- ☐ Systematic Review

PMID: 25992746 Free PMC article. Clinical Trial.

3 [Five-Year Follow-up of Antibiotic Therapy for Uncomplicated Acute Appendicitis in the APPAC Randomized Clinical Trial.](#)

Cite Salminen P, Tuominen R, Paajanen H, Rautio T, Nordström P, Aarnio M, Rantanen T, Hurme S, Mecklin JP, Sand J, Virtanen J, Jartti A, Grönroos JM.

Share JAMA. 2018 Sep 25;320(12):1259-1265. doi: 10.1001/jama.2018.13201.

PMID: 30264120 Free PMC article. Clinical Trial.

4 [Antibiotic Therapy vs Appendectomy for Treatment of Uncomplicated Acute Appendicitis: The APPAC Randomized Clinical Trial.](#)

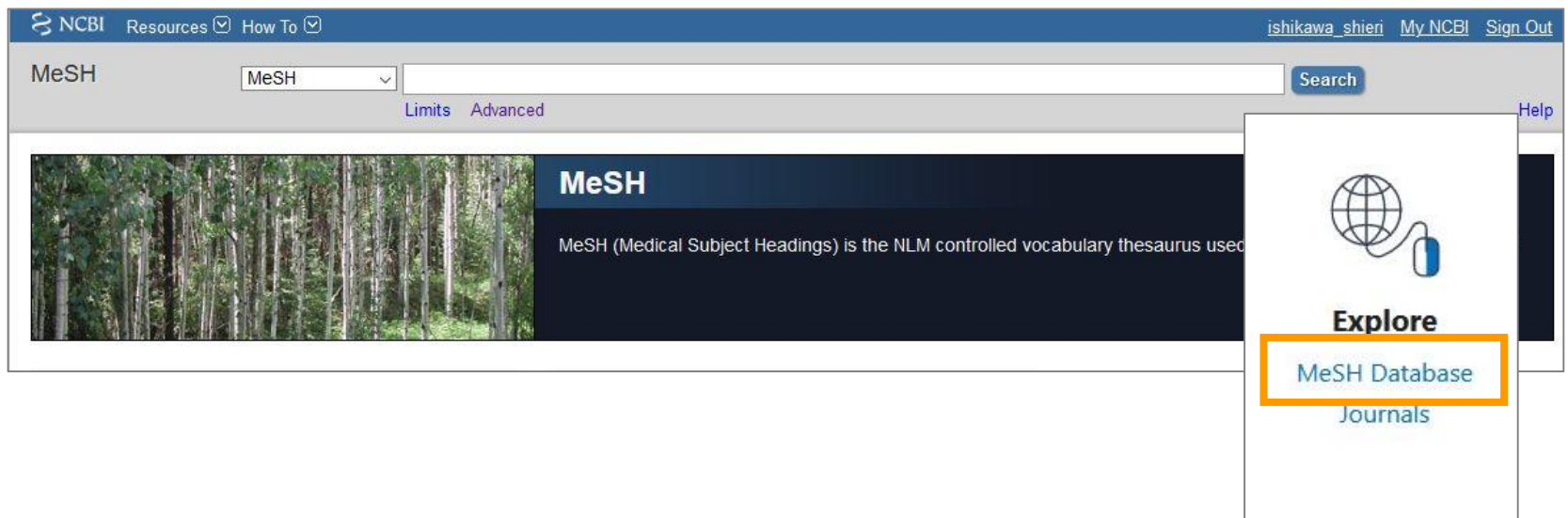
Cite Salminen P, Paajanen H, Rautio T, Nordström P, Aarnio M, Rantanen T, Tuominen R, Hurme S, Virtanen J,

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- Advanced search
 - Advanced Search Builder
- **How to use the functions**
 - **MeSH Database**
 - NLM Catalog
 - Single Citation Matcher
 - Clinical Queries

MeSH Database

- MeSH is used to search the details.
- Stratified structure of MeSH
- Search is possible by selecting subheading.



The screenshot displays the MeSH (Medical Subject Headings) database interface. At the top, the NCBI logo is visible, along with links for Resources and How To. The main header area includes the MeSH logo, a search bar with a dropdown menu set to 'MeSH', and a 'Search' button. Below the search bar, there are links for 'Limits' and 'Advanced'. The main content area features a large image of a forest on the left and a dark blue banner on the right with the text 'MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used'. On the right side of the page, there is a sidebar with a globe icon and a button labeled 'Explore MeSH Database Journals'.

MeSH Database

- When a term of interest is input, appropriate MeSH appears.
- It makes possible to confirm that the term is what you intend to know.

The screenshot shows the NCBI MeSH database interface. At the top, there's a navigation bar with 'NCBI', 'Resources', and 'How To'. Below this, the 'MeSH' section has a dropdown menu set to 'MeSH' and a search input field containing 'coryza'. To the right of the input field are links for 'Create alert', 'Limits', and 'Advanced'. Below the search bar, there's a 'Summary' dropdown and a 'Send to' dropdown. The main content area is titled 'Search results' and shows 'Items: 3'. A single result is displayed, 'Common Cold', which is highlighted with an orange box. Below the title is a brief description: 'A catarrhal disorder of the upper respiratory tract, which may be viral or a mixed infection. It generally involves a runny nose, nasal congestion, and sneezing.'

NCBI Resources How To

MeSH MeSH coryza

Create alert Limits Advanced

Summary Send to

Search results

Items: 3

☐ **Common Cold**

A catarrhal disorder of the upper respiratory tract, which may be viral or a mixed infection. It generally involves a runny nose, nasal congestion, and sneezing.

MeSH Database

NCBI Resources How To Sign in to NCBI

MeSH MeSH arthrocentesis Search

Create alert Limits Advanced Help

Full Send to

Arthrocentesis

Puncture and aspiration of fluid from a joint cavity, sometimes to irrigate or administer drugs into a joint cavity.

Year introduced: 2016

PubMed search builder options

Subheadings:

<input type="checkbox"/> instrumentation	<input type="checkbox"/> organization and administration	<input type="checkbox"/> therapeutic use
<input type="checkbox"/> methods	<input type="checkbox"/> pharmacology	<input type="checkbox"/> utilization
	<input type="checkbox"/> standards	<input type="checkbox"/> veterinary
	<input type="checkbox"/> statistics and numerical data	

☐ Restrict to MeSH Major Topic.

☐ Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): E01.370.225.998.329.465, E02.800.550.310, E04.665.600.465, E05.200.998

MeSH Unique ID: D000069237

Entry Terms:

PubMed Search Builder

Add to search builder AND Search PubMed

YouTube Tutorial

Related information

Year of introduction

Formula

Subheading

Search without the terms in lower strata.

Search articles on the MeSH terms

MeSH Database

synonyms

Stratified
structure

Entry Terms:

- Arthrocenteses
- Arthrocentesis, Temporomandibular Joint
- Arthrocentesis, Temporomandibular Joints
- Joint, Arthrocentesis, Temporomandibular
- Joints, Arthrocentesis, Temporomandibular
- Arthrocentesis, TMJ
- Arthrocenteses, TMJ
- TMJ Arthrocenteses
- TMJ Arthrocentesis
- Temporomandibular Joint Aspiration
- Aspiration, Temporomandibular Joint
- Aspirations, Temporomandibular Joint
- Joint Aspiration, Temporomandibular
- Joint Aspirations, Temporomandibular
- Temporomandibular Joint Aspirations
- Temporomandibular Joint Arthrocentesis
- Arthrocenteses, Temporomandibular Joint
- Arthrocentesis, Temporomandibular Joint
- Joint Arthrocenteses, Temporomandibular
- Joint Arthrocentesis, Temporomandibular
- Temporomandibular Joint Arthrocenteses
- Aspiration, Temporomandibular Joint
- Aspiration, Temporomandibular Joints
- Joint, Aspiration, Temporomandibular
- Joints, Aspiration, Temporomandibular

Previous Indexing:

- [Paracentesis \(1996-2015\)](#)

[All MeSH Categories](#)

[Analytical, Diagnostic and Therapeutic Techniques and Procedures](#)

[Diagnosis](#)

[Diagnostic Techniques and Procedures](#)

[Clinical Laboratory Techniques](#)

[Specimen Handling](#)

[Paracentesis](#)

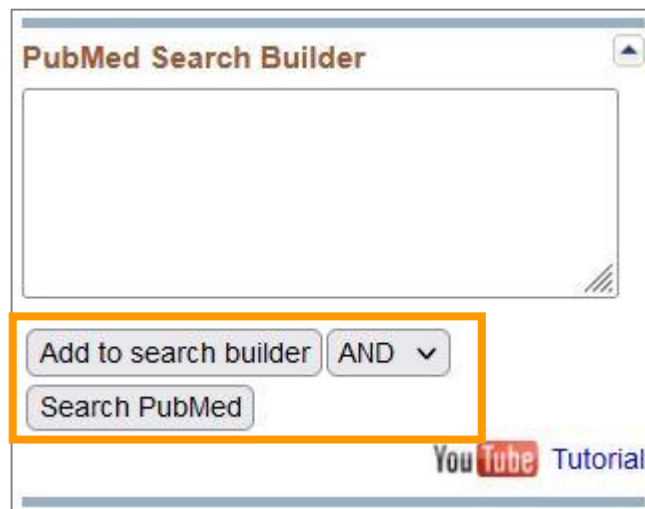
Arthrocentesis

MeSH terms before the term of interest is established.

MeSH Database

- **PubMed search builder**

Click “Add to search builder” to send MeSH term (with subheadings) listed in the left. Select operator to make a formula. Click “Search PubMed” to conduct the search.



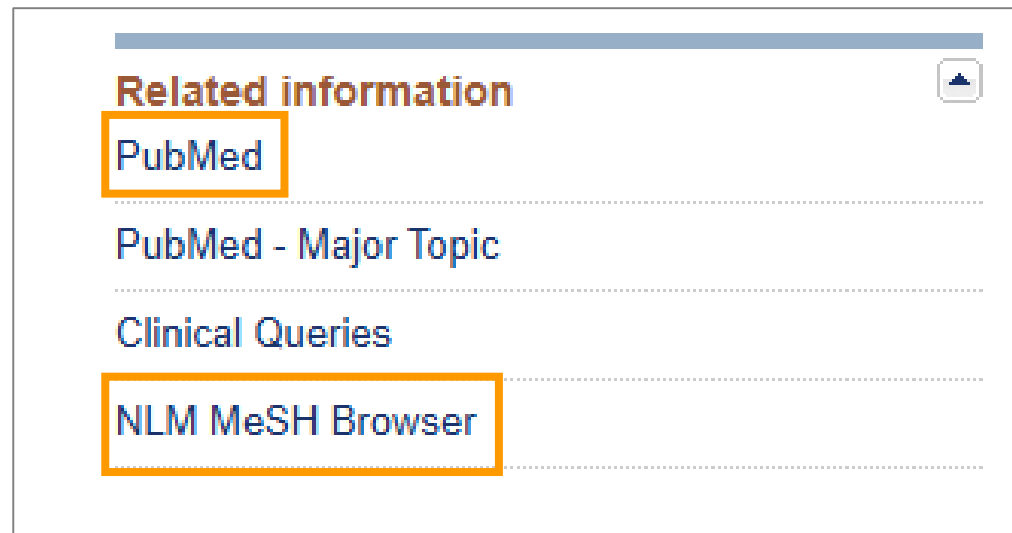
MeSH Database

- “PubMed” under **Related information**

Search ignoring subheadings.

- **NLM MeSHBrowser**

The detailed information on the MeSH term with rich annotations.



Practice 3

"Is physical exercise effective to the prevention of depression after childbirth"

1. Search "**postpartum depression**" in MeSH Database.
2. Select "**therapy**" as subheading for the result of 1, and add it to PubMed Search Builder.
3. Search "**exercise**" in MeSH Database.
4. Use "AND" to connect the above result with Formula 2, and add it to "PubMed Search Builder".
5. Use formula 4 to search.

Answer 3-1

1. When search "**postpartum depression**", "**Depression, Postpartum**" appear.

The screenshot displays the MeSH (Medical Subject Headings) interface. At the top, there is a navigation bar with links for 'NCBI', 'Resources', 'How To', and user options like 'ishikawa_shieri', 'My NCBI', and 'Sign Out'. The main search area features a 'MeSH' dropdown menu, a search input field containing 'postpartum depression', and a 'Search' button. Below the search bar, there are links for 'Create alert', 'Limits', and 'Advanced'. The search results for 'postpartum depression' are shown, including a definition: 'Depression in POSTPARTUM WOMEN, usually within four weeks after giving birth (PARTURITION). The degree of depression ranges from mild transient depression to neurotic or psychotic depressive disorders. (From DSM-IV, p386)' and the 'Year introduced: 1996'. A section titled 'PubMed search builder options' lists various subheadings with checkboxes, organized into three columns. The right sidebar contains a 'PubMed Search Builder' section with a text input field, 'Add to search builder', 'AND' dropdown, and 'Search PubMed' buttons. Below this is a 'YouTube Tutorial' link and a 'Related information' section with links to 'PubMed', 'PubMed - Major Topic', 'Clinical Queries', 'NLM MeSH Browser', and 'MedGen'.

MeSH [Create alert](#) [Limits](#) [Advanced](#) [Help](#)

Full

Depression, Postpartum

Depression in POSTPARTUM WOMEN, usually within four weeks after giving birth (PARTURITION). The degree of depression ranges from mild transient depression to neurotic or psychotic depressive disorders. (From DSM-IV, p386)
Year introduced: 1996

PubMed search builder options
[Subheadings:](#)

<input type="checkbox"/> analysis	<input type="checkbox"/> enzymology	<input type="checkbox"/> parasitology
<input type="checkbox"/> anatomy and histology	<input type="checkbox"/> epidemiology	<input type="checkbox"/> pathology
<input type="checkbox"/> blood	<input type="checkbox"/> ethnology	<input type="checkbox"/> physiology
<input type="checkbox"/> cerebrospinal fluid	<input type="checkbox"/> etiology	<input type="checkbox"/> physiopathology
<input type="checkbox"/> chemically induced	<input type="checkbox"/> genetics	<input type="checkbox"/> prevention and control
<input type="checkbox"/> classification	<input type="checkbox"/> history	<input type="checkbox"/> psychology
<input type="checkbox"/> complications	<input type="checkbox"/> immunology	<input type="checkbox"/> rehabilitation
<input type="checkbox"/> diagnosis	<input type="checkbox"/> metabolism	<input type="checkbox"/> statistics and numerical data
<input type="checkbox"/> diagnostic imaging	<input type="checkbox"/> microbiology	<input type="checkbox"/> therapy
<input type="checkbox"/> diet therapy	<input type="checkbox"/> mortality	<input type="checkbox"/> urine
<input type="checkbox"/> drug therapy	<input type="checkbox"/> nursing	<input type="checkbox"/> virology
<input type="checkbox"/> economics	<input type="checkbox"/> organization and administration	

[Add to search builder](#)

[YouTube Tutorial](#)

Related information

[PubMed](#)
[PubMed - Major Topic](#)
[Clinical Queries](#)
[NLM MeSH Browser](#)
[MedGen](#)

Answer 3-2

2. Click **"therapy"** in the subheading list, then click "Add to search builder".

The screenshot displays the PubMed Search Builder interface. On the left, under the heading "Depression, Postpartum", there is a description: "Depression in POSTPARTUM WOMEN, usually within four weeks after giving birth (PARTURITION). The degree of depression ranges from mild transient depression to neurotic or psychotic depressive disorders. (From DSM-IV, p386)" and "Year introduced: 1996". Below this, a link for "Subheadings:" is provided. A list of subheadings follows, each with a checkbox. The subheading "therapy" is checked, and this row is highlighted with an orange box labeled "1". To the right of the subheading list, there is a "Send to:" dropdown menu. Further right, the "PubMed Search Builder" panel shows the current search query: "Depression, Postpartum/therapy" [Mesh]. Below this, the "Add to search builder" button is highlighted with an orange box labeled "2". Below the "Add to search builder" button is a "Search PubMed" button. At the bottom right of the interface, there is a "YouTube Tutorial" link and a "Related information" section with links to "PubMed", "PubMed - Major Topic", "Clinical Queries", "NLM MeSH Browser", and "MedGen".

Full ▾ Send to: ▾

Depression, Postpartum

Depression in POSTPARTUM WOMEN, usually within four weeks after giving birth (PARTURITION). The degree of depression ranges from mild transient depression to neurotic or psychotic depressive disorders. (From DSM-IV, p386)

Year introduced: 1996

PubMed search builder options

[Subheadings:](#)

<input type="checkbox"/> analysis	<input type="checkbox"/> enzymology	<input type="checkbox"/> parasitology
<input type="checkbox"/> anatomy and histology	<input type="checkbox"/> epidemiology	<input type="checkbox"/> pathology
<input type="checkbox"/> blood	<input type="checkbox"/> ethnology	<input type="checkbox"/> physiology
<input type="checkbox"/> cerebrospinal fluid	<input type="checkbox"/> etiology	<input type="checkbox"/> physiopathology
<input type="checkbox"/> chemically induced	<input type="checkbox"/> genetics	<input type="checkbox"/> prevention and control
<input type="checkbox"/> classification	<input type="checkbox"/> history	<input type="checkbox"/> psychology
<input type="checkbox"/> complications	<input type="checkbox"/> immunology	<input type="checkbox"/> rehabilitation
<input type="checkbox"/> diagnosis	<input type="checkbox"/> metabolism	<input type="checkbox"/> statistics and numerical data
<input type="checkbox"/> diagnostic imaging	<input type="checkbox"/> microbiology	<input checked="" type="checkbox"/> therapy
<input type="checkbox"/> diet therapy	<input type="checkbox"/> mortality	<input type="checkbox"/> urine
<input type="checkbox"/> drug therapy	<input type="checkbox"/> nursing	<input type="checkbox"/> virology
<input type="checkbox"/> economics	<input type="checkbox"/> organization and administration	

1

2 Add to search builder AND ▾

Search PubMed

YouTube Tutorial

Related information

PubMed

PubMed - Major Topic

Clinical Queries

NLM MeSH Browser

MedGen

Answer 3-3

3. Search "Exercise".

MeSH [Create alert](#) [Limits](#) [Advanced](#)


Summary ▾ 20 per page ▾ [Send to:](#) ▾

Search results

Items: 1 to 20 of 26 [<< First](#) [< Prev](#) Page **1** of 2 [Next >](#) [Last >>](#)

☐ **Exercise**

1. Physical activity which is usually regular and done with the intention of improving or maintaining PHYSICAL FITNESS or HEALTH. Contrast with PHYSICAL EXERTION which is concerned largely with the physiologic and metabolic response to energy expenditure.
Year introduced: 1989



NCBI [Resources](#) [How To](#) [ishikawa_shieri](#) [My NCBI](#) [Sign Out](#)

MeSH [Limits](#) [Advanced](#) [Search](#) [Help](#)

Full ▾ [Send to:](#) ▾

Exercise

Physical activity which is usually regular and done with the intention of improving or maintaining PHYSICAL FITNESS or HEALTH. Contrast with PHYSICAL EXERTION which is concerned largely with the physiologic and metabolic response to energy expenditure.
Year introduced: 1989

PubMed search builder options
[Subheadings:](#)

☐ adverse effects ☐ history ☐ physiology
☐ analysis ☐ injuries ☐ pathophysiology

PubMed Search Builder

"Depression, Postpartum/therapy"
[Mesh]

[Add to search builder](#) [AND ▾](#)
[Search PubMed](#)

[YouTube](#) [Tutorial](#)

Answer 3-4

4. After confirming that the operator is "**AND**", click "**Add to search builder**".

The screenshot displays the PubMed Search Builder interface. On the left, under the heading "Exercise", there is a description: "Physical activity which is usually regular" and "PHYSICAL EXERTION which is concerned with", followed by "Year introduced: 1989". Below this, "PubMed search builder options" are listed with checkboxes for: adverse effects, analysis, anatomy and histology, blood, classification, drug effects, economics, education, epidemiology, and ethics. The main search builder area is highlighted with an orange box. It contains a text input field with the query: `("Depression, Postpartum/therapy" [Mesh]) AND "Exercise"[Mesh]`. Below the input field are two buttons: "Add to search builder" and "AND" with a dropdown arrow. At the bottom of the orange box is a "Search PubMed" button. To the right of the orange box, a yellow box with the number "1" points to the "Add to search builder" button. Further right, a smaller version of the search builder is shown, displaying the same query and the "Add to search builder" and "AND" buttons. Below this, there is a "Send to:" section with a dropdown menu, and a "Related information" section with links to PubMed, PubMed - Major Topic, Clinical Queries, NLM MeSH Browser, and dbGaP Links. A "YouTube Tutorial" logo is visible at the bottom right of the interface.

Answer 3-5

5. Click "Search PubMed".

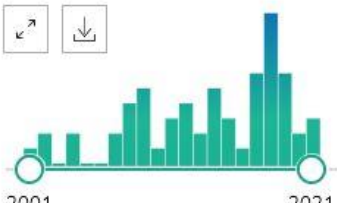
PubMed.gov ("Depression, Postpartum/therapy"[Mesh]) AND "Exercise"[Mesh]

[Advanced](#) [Create alert](#) [Create RSS](#) [User Guide](#)

Sorted by: Most recent

MY NCBI FILTERS

RESULTS BY YEAR



2001 2021

TEXT AVAILABILITY

☐ Abstract

☐ Free full text

☐ Full text

51 results

☐ 1 **Feasibility, Acceptability, and Preliminary Effects of "Mindful Moms": A Mindful Physical Activity Intervention for Pregnant Women with Depression.**

Cite Kinser PA, Thacker LR, Rider A, Moyer S, Amstadter AB, Mazzeo SE, Bodnar-Deren S, Starkweather A.

Share Nurs Res. 2021 Mar-Apr 01;70(2):95-105. doi: 10.1097/NNR.0000000000000485. PMID: 33630532

☐ 2 **Key stakeholder perspectives on the development and real-world implementation of a home-based physical activity program for mothers at risk of postnatal depression: a qualitative study.**

Cite Teychenne M, Apostolopoulos M, Ball K, Olander EK, Opie RS, Rosenbaum S, Laws R.

Share BMC Public Health. 2021 Feb 16;21(1):361. doi: 10.1186/s12889-021-10394-8. PMID: 33593324 [Free PMC article.](#)

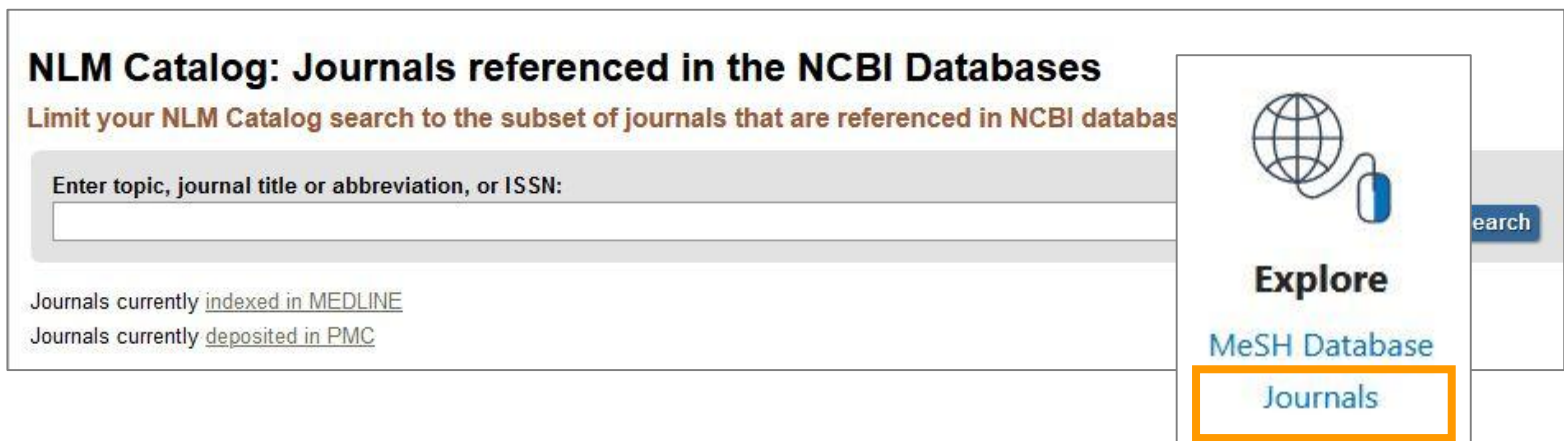
☐ 3 **Association between postnatal depression and physical activity in mothers: a systematic review and meta-analysis.**

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NLM Catalog

- Click Explore > Journals at the top page.
- Information on journals appears.
- Search based on journal name, its abbreviation, ISSN, etc.



NLM Catalog: Journals referenced in the NCBI Databases
Limit your NLM Catalog search to the subset of journals that are referenced in NCBI databases

Enter topic, journal title or abbreviation, or ISSN:

Journals currently [indexed in MEDLINE](#)
Journals currently [deposited in PMC](#)

Explore
MeSH Database
Journals

search

NLM Catalog

Nagoya journal of medical science

Author(s): Aichi Ika Daigaku
Nagoya Teikoku Daigaku Igakubu
Nagoya Daigaku Igakubu
Nagoya Ika Daigaku

NLM Title Abbreviation: Nagoya J Med Sci

Title(s): Nagoya journal of medical science.

Other Title(s): NAGOYA J MED SCI

Continues: Aichi journal of experimental medicine

Publication Start Year: 1927

Frequency: Quarterly

Country of Publication: Japan

Publisher: Nagoya : Nagoya University School Of Medicine

Description: v. illus.

Language: English

ISSN: 0027-7622 (Print)
2186-3326 (Electronic)
0027-7622 (Linking)

Coden: NJMSAG

LCCN: 34038485

Electronic Links: <https://www.ncbi.nlm.nih.gov/pmc/journals/2186/>

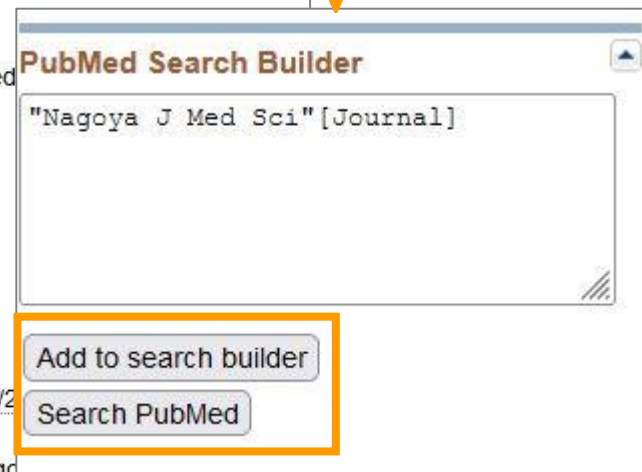
PubMed Central

<http://www.med.nagoya-u.ac.jp/medlib/nagoya/>

Free Electronic Resource

Details of journal

Search in the given journal



PubMed Search Builder

"Nagoya J Med Sci"[Journal]

Add to search builder

Search PubMed

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Single Citation Matcher

- Search using journal name, year of publication, volume, page, authors*, term in the article title. *It is possible to restrict only the first author.
- Effective in search for References of articles

PubMed Single Citation Matcher

Use this tool to find PubMed citations. You may omit any field.

Journal
Journal may consist of the full title or the title abbreviation.

Date
Month and day are optional.

Year **Month** **Day**

Volume **Issue** **First page**

Find

[Advanced Search](#)
[Clinical Queries](#)
[Single Citation Matcher](#)

Single Citation Matcher

PubMed Single Citation Matcher

Use this tool to find PubMed citations. You may omit any field.

Journal

Journal may consist of the full title or the title abbreviation.

Date

Month and day are optional.

Year

Month

Day

Details

Volume

Issue

First page

Author

Use format lastname initials for the most comprehensive results, e.g., Ostell J. See also: [Searching by author](#).

Limit authors

☐ Only as first author

☐ Only as last author

Title words

2008[Date - Publication] AND 26[Volume] AND 124[Page]



Search

[Advanced](#) [Create alert](#) [Create RSS](#)

[User Guide](#)

Save

Email

Send to

Sorted by: Best match

Display options

5 results

only need to fill in some of the fields

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Clinical Queries

- A function to set a filter for clinical articles automatically, simply by inputting a keyword, facilitating the **EBM articles**.
- Clinical Study Categories (The below five are available)
 - I. Therapy
 - II. Clinical Prediction Guides
 - III. Diagnosis
 - IV. Etiology
 - V. Prognosis

Two categories (broad/narrow) can be assigned.



Clinical Queries

PubMed Clinical Queries

This tool uses [predefined filters](#) to help you quickly refine PubMed searches on clinical or disease-specific topics. To use this tool, enter your search terms in the search bar and select filters before searching.

The screenshot shows the PubMed Clinical Queries interface. At the top is a search bar with the placeholder text "Enter your search terms" and a blue "Search" button. Below the search bar are three filter sections: "Filter category", "Filter", and "Scope". The "Filter category" section has two radio buttons: "Clinical Studies" (selected) and "COVID-19". Below this is a note: "Clinical Queries filters were developed by [Haynes RB et al.](#) to facilitate retrieval of clinical studies." The "Filter" section has a dropdown menu with "Therapy" selected; this section is highlighted with an orange border. Below it is a link: "See [Clinical Queries filter details](#)." The "Scope" section has a dropdown menu with "Broad" selected. Below it is a note: "Returns more results: less specific, but more comprehensive. See [filter details](#)." At the bottom right is a "Reset form" link. An orange callout box with a pointer to the "Filter" dropdown contains the text "Selection of category".

Enter your search terms **Search**

Filter category

☒ Clinical Studies
☐ COVID-19

Clinical Queries filters were developed by [Haynes RB et al.](#) to facilitate retrieval of clinical studies.

Filter

Therapy

See [Clinical Queries filter details](#).

Scope

Broad

Returns more results: less specific, but more comprehensive. See [filter details](#).

[Reset form](#)

Selection of category

Clinical Queries (COVID-19)

Since February 2021, COVID-19 Article Filters with 9 categories has been available.

- I. General
- II. Mechanism
- III. Transmission
- IV. Diagnosis
- V. Treatment
- VI. Prevention
- VII. Case Report
- VIII. Forecasting
- IX. Long COVID

My NCBI

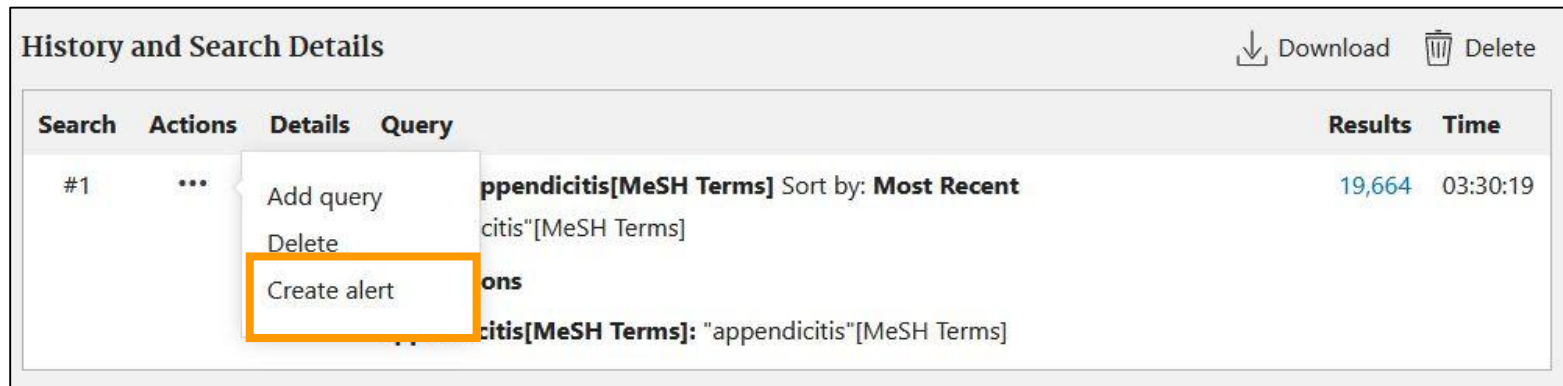
Free user registration allows the below services

- To save and reuse of search formula
- Periodical reports of search results with alert function
- To save the results
- Customization of search page



My NCBI with alert function

- Periodical e-mail reports according to the formula.
- Select "Actions" in "History" of "**Advanced Search Builder**" → "**Create alert**"



History and Search Details

Download Delete

Search	Actions	Details	Query	Results	Time
#1	...	Add query Delete Create alert	appendicitis[MeSH Terms] Sort by: Most Recent cit[MeSH Terms] ons cit[MeSH Terms]: "appendicitis"[MeSH Terms]	19,664	03:30:19

My NCBI with alert function

Your saved search

Name of saved search:

Search terms: [Test search terms](#)

Would you like email updates of new search results?

☒ Yes
☐ No

Email:

Frequency: ▾

Which day? ▾

- Name the formula.
- Customize frequency, day, number of articles, etc.
- Default address is the address at registration.

Summary

- Technic to search with a high precision
 - Phrase search
 - Right-hand match
 - Selection of field
 - MeSH/subheading
- Technic to make complicated formula
 - Use of Advanced Search Builder

This is the last slide of "PubMed".

Go on the next video.

If you have questions, please send them to
libmed@t.mail.nagoya-u.ac.jp.