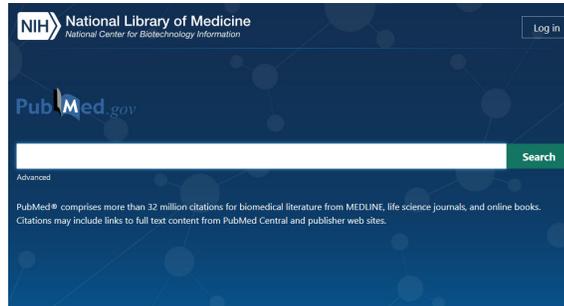


A detailed Introduction to PubMed



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

Library Section for Teaching and Learning Support
NTNU University Library
November 2022

1

1

- Pubmed (Medline) is the largest database for medicine and health sciences, and covers both biomedical research and more clinical studies.
- PubMed has more than 34 million references from approximately 5281 journals. 1946 →.
- The MESH thesaurus is a valuable tool for precise searches.
- The PubMed coverage is best for American and other English language journals.
- Medline (OVID) is available for NTNU and St. Olav Hospital through Helsebiblioteket.no. Good for advanced searches.
- PubMed can be freely accessed by all without any subscription.
- As a rule of thumb: Always search at least one more database in addition to PubMed (e.g. EMBASE, Web of Science, Scopus etc.)!
- PubMed doesn't contain full text, only links to full text.

2

2

NIH U.S. National Library of Medicine
National Center for Biotechnology Information

PubMed.gov

What is PubMed?

Medline (1966 ->)

OldMedline (1946 - 1966)

PubMed - In process

PubMed - as supplied by publisher

PubMed Central (NLM OA arkiv)
3297 titles

NB! PubMed will also retrieve articles that are submitted to the open access database **PubMed Central**. Some of these articles may have been published in journals that are not currently indexed in Medline. These are labelled "Free PMC article". Articles from "predatory journals" have also been found among the PMC journals.

3

3

NIH U.S. National Library of Medicine
National Center for Biotechnology Information

PubMed.gov

How articles are indexed in PubMed:

THE LANCET

United States National Library of Medicine
National Institutes of Health

Quality check MESH terms

A few weeks

PubMed - Indexed for Medline

Journals

Pub Med - in process
PubMed - as supplied by publisher

PubMed is updated daily

4

4

Where do I find the databases?

Fagsiden i medisin (the library's subject page for health and biomedicine)

Use the link to PubMed from the Medicine and Health Library for easy access to full text and paper copy orders

<https://www.ntnu.no/blogger/ub-mh/in-english/>

5

PubMed - An overview

Log on to personal area (MyNCBI)

Advanced search:
 - Menu search
 - Details
 - Field search and indexes
 - Search history

Special functions:
 - Journal search
 - MeSH search
 - Citation search
 - Clinical search

Hjelp/Tutorials

Learn
About PubMed
FAQs & User Guide
Finding Full Text

Find
Advanced Search
Clinical Queries
Single Citation Matcher

Download
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FTP
Batch Citation Matcher

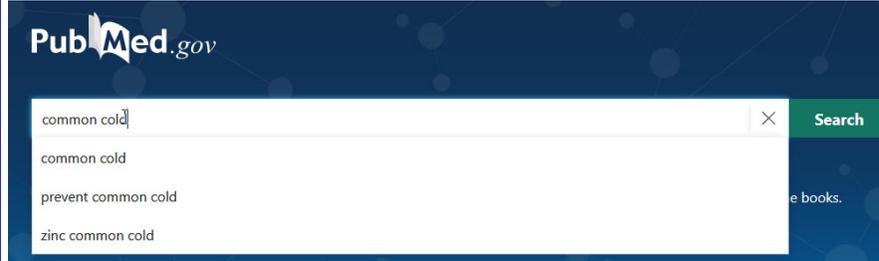
Explore
MeSH Database
Journals

Feedback

6

Topic Search and automatic suggestions

Can vitamin C and fish oils prevent common cold and/or improve the treatment?



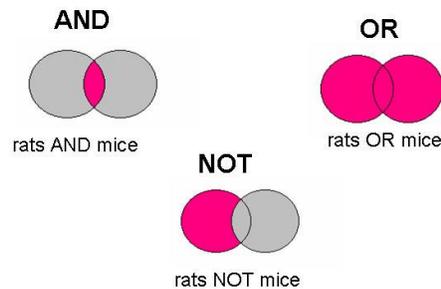
PubMed will automatically suggest common search terms related to the terms you enter. Click on a search term to run the search, or finish writing the term(s) yourself.

7

7

Topic Search and use of Boolean Operators

Boolean operators



PubMed supports the use of the Boolean operators **AND**, **OR** and **NOT**.

We recommend that you are careful in using **NOT**, as this operator may cause loss of interesting references.

8

8

Topic Search and use of Boolean Operators

Can vitamin C and fish oils prevent common cold and/or improve the treatment?



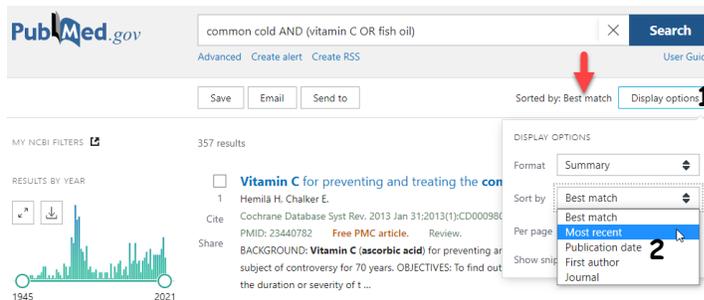
This search will produce articles that contain the terms common cold AND (Vitamin C OR fish oils) in the title or abstract.

PubMed has an automatic mapping against the MESH thesaurus.

PubMed will automatically put an AND between multiple words not separated with other operators.

Your search terms will be displayed in bold.

New PubMed and the result list An important difference from old PubMed



Notice that new PubMed sorts the result list after relevance as default ("Best match"). This may have an impact on your search result. Choose "Display options" (1) and "Most recent" (2) or "Publication date" (2) to get a chronological sorting and full control over the search.

Most recent: Sorted after when a reference was included into PubMed.

Publication date: Sorted after date of publication.

How PUBMED interprets your search

common cold AND (Vitamin C OR fish oil) X Search

Advanced Create alert Create RSS

1

History and Search Details Download Delete

Search	Actions	Details	Query	Results	Time
#1	...	▼	Search: common cold AND (Vitamin C OR fish oil) ("common cold"[MeSH Terms] OR ("common"[All Fields] AND "cold"[All Fields])) OR "common cold"[All Fields] AND (((("ascorbic acid"[MeSH Terms] OR ("ascorbic"[All Fields] AND "acid"[All Fields]) OR "ascorbic acid"[All Fields]) OR "vitamin c"[All Fields]) OR (((("fish oils"[MeSH Terms] OR ("fish"[All Fields] AND "oils"[All Fields]) OR "fish oils"[All Fields]) OR ("fish"[All Fields] AND "oil"[All Fields]) OR "fish oil"[All Fields]))	335	08:54:06

Translations

common cold: "common cold"[MeSH Terms] OR ("common"[All Fields] AND "cold"[All Fields]) OR "common cold"[All Fields]

Vitamin C: "ascorbic acid"[MeSH Terms] OR ("ascorbic"[All Fields] AND "acid"[All Fields]) OR "ascorbic acid"[All Fields] OR "vitamin c"[All Fields]

fish oil: "fish oils"[MeSH Terms] OR ("fish"[All Fields] AND "oils"[All Fields]) OR "fish oils"[All Fields] OR ("fish"[All Fields] AND "oil"[All Fields]) OR "fish oil"[All Fields]

You can check how PubMed interprets your search by going to "Advanced" (1) under the search box and choose Details" (2) in the search history. Included here is also information about any Mesh-terms used in your search (see next slide).

Hvordan tolker PUBMED ditt søk?

Translations

common cold: "common cold"[MeSH Terms] OR ("common"[All Fields] AND "cold"[All Fields]) OR "common cold"[All Fields]

Vitamin C: "ascorbic acid"[MeSH Terms] OR ("ascorbic"[All Fields] AND "acid"[All Fields]) OR "ascorbic acid"[All Fields] OR "vitamin c"[All Fields]

fish oil: "fish oils"[MeSH Terms] OR ("fish"[All Fields] AND "oils"[All Fields]) OR "fish oils"[All Fields] OR ("fish"[All Fields] AND "oil"[All Fields]) OR "fish oil"[All Fields]

Here we learn that Common Cold and Fish Oils are MESH terms, but that vitamin C is mapped to the MESH term Ascorbic Acid.

PubMed doesn't overrule your search and will also search for your original search terms in all fields [All Fields].

Topic Search and use of Boolean Operators

History and Search Details Download Delete

Search	Actions	Details	Query	Results	Time
#4	...	>	Search: common cold AND (vitamin c OR fish oil)	333	06:57:47
#3	...	>	Search: common cold AND vitamin c OR fish oil	32,767	06:57:38
#2	...	>	Search: (common cold AND vitamin c) OR fish oil	32,767	06:57:32

It is important to use parenthesis when you are using multiple search terms and different Boolean operators! PubMed treats the search terms from left to right.

common cold AND vitamin C OR fish oil

does **not** produce the same results as

Common cold AND (vitamin C OR fish oil)

13

13

Truncation *

Using word stemming:

* is used by PubMed for this.

Child* will produce child, children, childhood etc.

This is a good method to retrieve both single and plural forms for your search terms.

Do not use to short stems for truncation as this may produce a large increase in hits and lessen the precision.

It is possible to truncate the end of a phrase to cover both the single and plural form:

"complex intervention*"

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Phrase Search in Pubmed

Searching with phrases: "vitamin c" "brain cancer" "common cold"

This is an important tool in searching and is also available in Pubmed to ensure that two terms should be located together. However, this will only work for phrases that are listed in PubMed's phrase register. Other phrases will be search as single terms with AND between.

Phrase searching in PubMed will shut down the automatic mapping against the MESH-terms. You must check if there are Mesh-terms associated with your search terms and then search for them as both Mesh-term and free text term. Example:

"vitamin C" OR "Ascorbic Acid" OR "Ascorbic Acid" [Mesh]

It is possible to use truncation in the end of a phrase to cover both single and plural forms. Example:

"complex intervention*"

15

15

MESH-Search

Searching with ordinary text words may produce many irrelevant hits. This problem might be reduced by searching with MESH terms (will give higher precision).

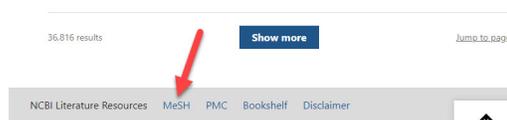
In PubMed, all articles are tagged with 8-12 MESH terms which should describe the content of the article

The downside with MESH searching is that very recent articles in PubMed lack MESH terms and can be missed. Searching for both Mesh-terms and free text terms are recommended.

It's important to check the scope and date of introduction for the MESH terms you want to use.



MESH thesaurus is available from the menu on the right side below the search box or in the bottom of the page under the result list.



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Norwegian MESH



First edition of the Norwegian MESH is available. It is possible to search in Norwegian and English.

Information about Norwegian MESH:

<https://www.fhi.no/prosjekter/medical-subject-headings-mesh-oversatt-til-norsk/>

Link to Norwegian MESH:

<http://mesh.uia.no/>

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MESH-Search



Note the label MeSH



- Using MeSH: Help, Tutorials
- More Resources: E-Utilities, NLM MeSH Homepage



Submit your search term and the MESH browser suggests related MESH terms.

18

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MESH-Search

NCBI Resources How To Sign in to NCBI

MeSH MeSH common cold Search

Create alert Limits Advanced Help

Summary Send to PubMed Search Builder

Search results
Items: 2

- Common Cold** **2**
 1. 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.
- Rhinovirus**
 2. A genus of PICORNAVIRIDAE inhabiting primarily the respiratory tract of mammalian hosts. It includes over 100 human serotypes associated with the **COMMON COLD**.
Year introduced: 1994, 1964-1974

Add to search builder AND Search PubMed 1 Find related data Database: Select Find items

The MESH-browser presents a list of potential MESH-terms. You can now create a MESH search in PubMed directly (1), or you can click on the MESH-term for more information (2).

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MESH-Search

NCBI Resources How To Sign in to NCBI

MeSH MeSH common cold Search

Create alert Limits Advanced Help

Summary Send to PubMed Search Builder

Search results
Items: 2 Selected: 1

- Common Cold**
 1. 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.
- Rhinovirus**
 2. A genus of PICORNAVIRIDAE inhabiting primarily the respiratory tract of mammalian hosts. It includes over 100 human serotypes associated with the **COMMON COLD**.
Year introduced: 1994, 1964-1974

Add to search builder AND Search PubMed 3 4 5 Find related data Database: Select Find items

Mark the MESH-term you want to search with (1), click on "Add to search builder" (2) to add the MESH-term to the search builder (3). Click "Search PubMed" (4) to transfer the MESH term to a PubMed search.

You can find several MESH terms and combine these with AND/OR in the search builder (5). NB! You may have to adjust the position of the parenthesis if both AND or OR is used in the search box. Click "Search PubMed" (2) to do a combined MESH-search in PubMed with several MESH-terms.

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20

MESH-Search

Scope

Subheadings

Synonyms covered by this MESH term.

MESH tree/hierarchy

21

21

MESH-Search - Subheadings

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.

PubMed search builder options
[Subheadings](#)

- blood
- cerebrospinal fluid
- chemically induced
- classification
- complications
- diagnosis
- diet therapy
- drug therapy
- economics
- enzymology
- epidemiology
- etiology
- genetics
- growth and development
- history
- immunology
- metabolism
- microbiology
- mortality
- nursing
- pathology
- physiology
- physiopathology
- prevention and control
- psychology
- radiography
- radiotherapy
- rehabilitation
- statistics and numerical data
- surgery
- therapy
- transmission
- urine
- veterinary
- virology

Subheadings (aspects) is a tool for limiting your search to a special aspect of the MESH term (by marking one or more subheadings).

Treatment of common cold: Common Cold/therapy

NB! Choosing subheadings is a hard narrowing of the search and may cause some relevant articles to be lost.

The Subheading "adverse effects" together with a MESH term produce a better result when searching for adverse effects of drugs or treatments than searching with "adverse effects" as a text word.

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MESH-Search - Subheadings

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.

PubMed search builder options
[Subheadings](#)

- blood
- cerebrospinal fluid
- chemically induced
- classification
- complications
- diagnosis
- diet therapy
- drug therapy
- economics
- enzymology
- epidemiology
- ethnology
- etiology
- genetics
- growth and development
- history
- immunology
- metabolism
- microbiology
- mortality
- nursing
- pathology
- physiology
- physiopathology
- prevention and control
- psychology
- radiography
- radiotherapy
- rehabilitation
- statistics and numerical data
- surgery
- therapy
- transmission
- urine
- veterinary
- virology

PubMed search builder
"Common Cold/therapy"[MeSH]
4

3 Add to search builder | AND | 2
5 Search PubMed

All links from this record
PubMed
PubMed - Major Topic
Clinical Queries
NLM MESH Browser

Recent activity
Angina Pectoris
Turn Off Clear

Shortcut:
Click on PubMed to do a quick MESH-search in PubMed.

Search in PubMed for MESH-terms with subheading(s): Click on one or more subheadings (1), choose And/OR (2) and "Add to search builder" (3) to add the search term(s) to the search builder (4). You can add more MESH terms (with or without subheadings) and combine these in the search builder with AND/OR (2). Click on "Search PubMed" (5) to transfer search term(s) to PubMed.

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MESH-Search - Trees

Cardiovascular Diseases
Heart Diseases
Myocardial Ischemia
Coronary Disease
Angina Pectoris
Angina, Unstable
Angina Pectoris, Variant
Microvascular Angina

All MeSH Categories
Diseases Category
Cardiovascular Diseases
Vascular Diseases
Ischemia
Myocardial Ischemia
Coronary Disease
Angina Pectoris
Angina Pectoris, Variant
Angina, Unstable
Microvascular Angina

All MeSH Categories
Diseases Category
Pathological Conditions, Signs and Symptoms
Signs and Symptoms
Pain
Chest Pain
Angina Pectoris
Angina, Unstable
Angina Pectoris, Variant

Some MESH term are included in several MESH trees.

PubMed will automatically search the narrower terms for your chosen MESH term ("exploding") unless you manually turn it off.

If you search on Angina Pectoris, Pubmed will also search on:
- Angina, Unstable
- Angina Pectoris, Variant
- Microvascular Angina

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Hvordan finne alternative MESH ord

Treatment of the Common Cold

Madeline Simasek, David A Blandino + expand
PMID: 17323712

Abstract

The common cold is a viral illness that affects persons of all ages, prompting frequent use of over-the-counter and prescription medications and alternative remedies. Treatment focuses on relieving symptoms (e.g., cough, nasal congestion, rhinorrhea). Dextromethorphan may be beneficial in adults with cough, but its effectiveness has not been demonstrated in children and adolescents. Codeine has not been shown to effectively treat cough caused by the common cold. Although hydrocodone is widely used and has been shown to effectively treat cough caused by other conditions, the drug has not been studied in patients with colds. Topical (intranasal) and oral nasal decongestants have been shown to relieve nasal symptoms and can be used in adolescents and adults for up to three days. Antihistamines and combination antihistamine/decongestant therapies can modestly improve symptoms in adults; however, the benefits must be weighed against potential side effects. Newer non-sedating antihistamines are ineffective against cough. Topical ipratropium, a prescription anticholinergic, relieves nasal symptoms in older children and adults. Antibiotics have not been shown to improve symptoms or shorten illness duration. Complementary and alternative therapies (i.e., Echinacea, vitamin C, and zinc) are not recommended for treating common cold symptoms; however, humidified air and fluid intake may be useful without adverse side effects. Vitamin C prophylaxis may modestly reduce the duration and severity of the common cold in the general population and may reduce the incidence of the illness in persons exposed to physical and environmental stresses.

Comment in

Guidelines for Treating Adults With Acute Cough
RS Irwin. Am Fam Physician 75 (4), 476, 479, 482, 2007. PMID 17323709.
The Role of Vitamin C in the Treatment of the Common Cold

FULL TEXT LINKS

FREE full text from AFP

@NTNU

ACTIONS

Cite

Favorites

SHARE

Twitter Facebook LinkedIn

PAGE NAVIGATION

Title & authors

Abstract

Comment in

Similar articles

Cited by

Publication types

MeSH terms

Publication types

> Review

MeSH terms

- > Adult
- > Antitussive Agents / therapeutic use
- > Ascorbic Acid / therapeutic use
- > Cerebrospinal Fluid Rhinorrhea / drug therapy
- > Child
- > Common Cold / drug therapy
- > Common Cold / therapy *
- > Echinacea
- > Fluid Therapy
- > Histamine H1 Antagonists / therapeutic use
- > Humans
- > Humidity
- > Nasal Decongestants / therapeutic use
- > Phytotherapy
- > Zinc Compounds / therapeutic use

Substances

- > Antitussive Agents
- > Histamine H1 Antagonists
- > Nasal Decongestants
- > Zinc Compounds
- > Ascorbic Acid

Click on shortcut or browse down the page to find Mesh-terms used for this article.

How to find alternative MESH terms

Publication types

> Review

Information about publication type

MeSH terms

- > Adult
- > Antitussive Agents / therapeutic use
- > Ascorbic Acid / therapeutic use
- > Cerebrospinal Fluid Rhinorrhea / drug therapy
- > Child
- > Common Cold / drug therapy
- > Common Cold / therapy *
- > Echinacea
- > Fluid Therapy
- > Histamine H1 Antagonists / therapeutic use
- > Humans
- > Humidity
- > Nasal Decongestants / therapeutic use
- > Phytotherapy
- > Zinc Compounds / therapeutic use

Check for alternative or extra MESH terms that you can use.

Substances

- > Antitussive Agents
- > Histamine H1 Antagonists
- > Nasal Decongestants
- > Zinc Compounds
- > Ascorbic Acid

Drugs and chemical substances mentioned in the article are also indexed.

Here you get information about publication type, MESH terms, subheadings, substance names etc. below the abstract.

History and combining searches

PubMed Advanced Search Builder

Add terms to the query box

All Fields Enter a search term AND Show Index

Query box

((fish oil) OR (vitamin c)) AND (common cold) 3 Search 4

History and Search Details Download Delete

Search	Actions	Details	Query	1 Results	Time
#3	...	>	Search: fish oil	32,454	09:04:29
#2	... 2	>	Search: vitamin c	63,391	09:04:22
#1	...	>	Search: common cold	12,479	09:04:14

Click on the number under "Results" (1) to run previous searches. Use "..." (2) to combine searches in the Query-box (3). Choose "Add query" for the first search term and AND or OR for additional search terms. Add parenthesis where necessary in the Query-box. Finish with "Search" (4).

How to limit a search

PubMed.gov common cold AND (vitamin c OR fish oil) Search

Advanced Create alert Create RSS

Save Email ... Sort by best match Most recent

MYNCBI FILTERS 333 results

RESULTS BY YEAR

1445 2019

TEXT AVAILABILITY

Abstract Free full text Full text

ARTICLE ATTRIBUTES

Associated data

ARTICLE TYPE

Books and Documents Clinical Trial Meta-Analysis Randomized Controlled Trial Review Systematic Reviews

PUBLICATION DATE

1 year 5 years 10 years

Additional filters 1

Reset all filters 2

1 Authors' response to letter to the editor: "Meta-analysis on vitamin C and the common cold in children may be misleading". Vonthon P, et al. Eur J Clin Pharmacol 2019; PMID 31465376 44 Cite Share

2 Meta-analysis on vitamin C and the common cold in children may be misleading. Hemila H and Chalker E. Eur J Clin Pharmacol 2019; PMID 31377890 44 Cite Share

3 Determination of genotoxic and antigenotoxic effects of wild-grown Reishi mushroom (*Ganoderma lucidum*) using the hen's egg test for analysis of micronucleus induction. Gekik B and Ozgenel H. Biotech Biochem 2019; PMID 31382205 It has long been used to treat disorders including fungal infections, influenza, common cold, hepatitis, diabetes, high cholesterol and cancer in many countries including China and Japan. ...Three different doses of aqueous extract of *G. lucidum*, 50 µg/kg vitamin C as an antigenotoxic agent and 50 µg/kg cytophosphamide as a genotoxic compound were injected separately or together into fertilized chicken eggs at incubation day 8. ... 44 Cite Share

4 Effects of pretreatments on quality attributes of long-term deep frozen storage of vegetables: a review. Zhan X, et al. Crit Rev Food Sci Nutr 2019 - Review; PMID 30595028 This review provides a critical comprehensive summary of long-term storage (16 months) vegetables under low temperatures (-18 °C) and effects of the storage methods on various quality attributes of vegetables, such as texture, colour, contents of ascorbic acid, chlorophyll and carotenoids. Besides, the impacts of common pretreatments prior to freezing on the subsequent frozen storage are also briefly discussed. The current review shows that although some important biochemical attributes are more or less deteriorated and the quality loss of them is inevitable, a substantial portion of quality attributes appear to be stable during long-term deep frozen storage especially the physical parameters. ... 44 Cite Share

5 Role of vitamin C in diabetic ketoacidosis: Is it ready for prime time? Caslas S, et al. World J Diabetes 2018; PMID 3058281 Free PMC article.

You can limit your search by using the limit options on the left side of the results.

Click on "Additional filters" (1) to choose which limitation options that should be displayed.

Click on "Reset all filters" (2) to remove all active filters (limits).

Do not start by limiting your search! Start broadly and use limits only after evaluating the initial search results to get a more focused result.

How to limit a search

When you choose "Additional filters" you can choose the filters that are displayed on the results page. You can choose category (1) and the alternatives within each category (2).

OR is automatically inserted between limits belonging to the same category and AND is inserted between limits belonging to different categories.

How to limit a search

"Filters applied" shows that one or more limits are chosen. Active limits are ticked with V on the left side.

Limits can be removed by using "Clear all" or you can just un-tick the chosen limit.

Use limits with care as these may remove relevant articles.

Some limits may remove new articles from your search results because these are not properly indexed/tagged yet (e.g. "PubMed - In Process" articles).

Remember to remove limits before starting a new search!

Advanced Search

In Advanced Search it is possible to do field searching by limiting your search to one or more PubMed fields (like author, journal etc.) or combining existing searches with field searches.

NB! Your previous search is cleared from the search box when selecting Advanced Search. You must specify the search you want to limit/combine (either by entering the search terms (1), or add the search numbers found in the history (2 and 3).

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Advanced search - Limit to a special journal

Choose "Journal" (1) from the list and enter journal name. PubMed's autosuggest will suggest journal names (2). Highlight journal name to choose correct journal.

Choose "ADD" (3) to add the journal to the search box (4). Other field searches can be added if necessary. #1 above is from the search history. Click "Search" (5) to run a search.

Don't forget to add search term(s)/search number(s) (see previous slide) if you want to limit/combine previous searches.

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Advanced Search - Author Limit

PubMed Advanced Search Builder

Add terms to the query box

Author **1** | Rein, Jan | **3** ADD | Show Index

Query box | Rein, Jan **2**
Rein, Jan Ove

Choose **"Author" (1)** from list and enter author name. PubMed's autosuggest will suggest author names (helpful if you are uncertain about author initials). Highlight correct author name **(2)**.

Choose **ADD (3)** to add the author name to the search box. See previous slide for the rest of the procedure.

Don't forget to add search term(s)/search number(s) (see previous slide) if you want to limit/combine previous searches.

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Advanced Search - All PubMed fields can be searched

PubMed Advanced Search

Add terms to the query box

All Fields | Ent

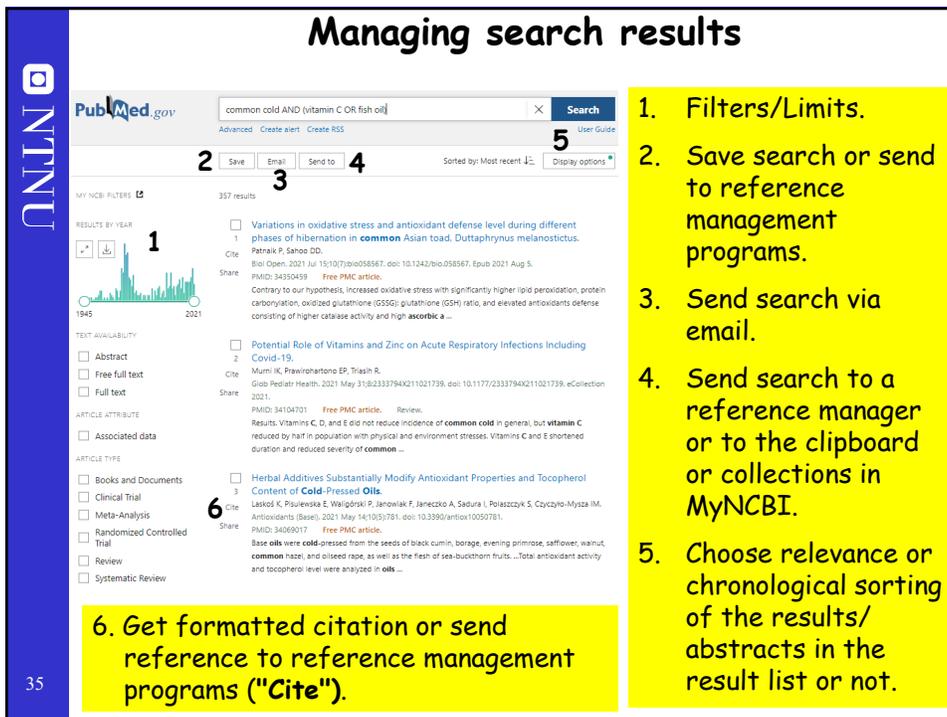
Book
Conflict of Interest Statements
Date - Completion
Date - Create
Date - Entry
Date - MeSH
Date - Modification
Date - Publication
EC/RN Number
Editor
Filter
Grant Number
ISBN
Investigator
Issue
Journal
Language
Location ID
MeSH Major Topic
MeSH Subheading

You can limit a search to most PubMed-fields through the drop-down menu. Most fields also have an index where it is possible to browse available terms (Click on **"Show index list"**).

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Managing search results



1. Filters/Limits.

2. Save search or send to reference management programs.

3. Send search via email.

4. Send search to a reference manager or to the clipboard or collections in MyNCBI.

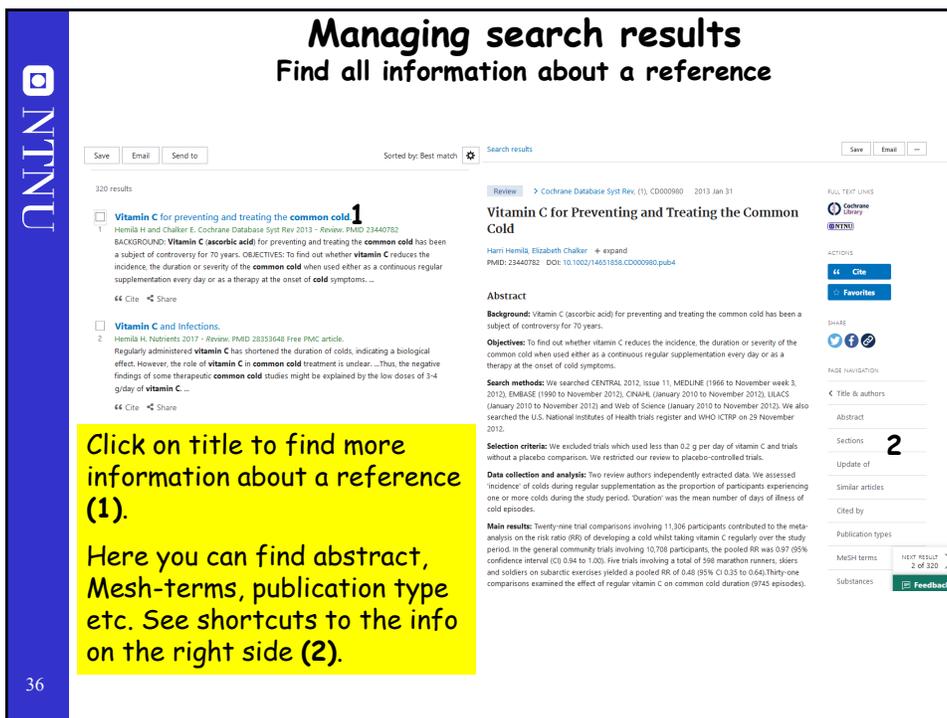
5. Choose relevance or chronological sorting of the results/abstracts in the result list or not.

6. Get formatted citation or send reference to reference management programs ("Cite").

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Managing search results

Find all information about a reference



1. Click on title to find more information about a reference.

2. Here you can find abstract, Mesh-terms, publication type etc. See shortcuts to the info on the right side.

2. Click on the right side to find more information about a reference.

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Managing Search Results

Sort by relevance (Best Match)

It is now possible to sort your results by relevance. choose: **"Best Match" (1 and 2)**.

The relevance sorting is a result of an algorithm that analysis the occurrence of search terms, where they are found etc. More recent articles are listed higher on the list (given priority).

Choose **"Most recent" (2)** chronological sorting.

Do not use "Best Match" for normal searching!

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Managing search results

Eksporting references to a reference management program

Tick the references that you want to export (1).

Choose **"Send to" (2)** and **"Citation manager" (3)** from dropdown menu for format. Choose **"Create file" (4)** to start the export to EndNote or similar programs.

If you haven't ticked any references in advance, you can import all references or the references on the current page (5).

Different web browsers will handle the export differently. See our EndNote page for more information.

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Managing search results Activating abstract display

Click on the cogwheel (1) and "Abstract" (2) to activate abstract display.

This may be useful when you are checking a result list to decide which references that are relevant and you want to save for later.

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Clipboard

If you want to collect several searches in one file, you can temporarily store these in the Clipboard by choosing "Clipboard" (1) from the "Send to" menu (2). A confirmation message is given (3).

When you are finished, you can get the contents in the clipboard by clicking on Clipboard (4).

Max. 500 references can be stored in the clipboard. The Clipboard's content will be stored for eight hours or until your turn off the computer.

40

Clipboard

3

Save

Email

...

✖

Clipboard

2 results × Remove all **1**

i Your clipboard expires after eight hours of inactivity. ✕

1. PMID: 23440782

Vitamin C for Preventing and Treating the Common Cold
 H Hemilä et al. Cochrane Database Syst Rev (1), CD000980, 2013. PMID 23440782. - Review
 The failure of vitamin C supplementation to reduce the incidence of colds in the general population indicates that routine vitamin C supplementation is not justified, yet ...

Remove from clipboard Cite Share

2

2. PMID: 28353648

Vitamin C and Infections
 H Hemilä. Nutrients 9 (4), 2017. PMID 28353648. - Review
 In the early literature, vitamin C deficiency was associated with pneumonia. After its identification, a number of studies investigated the effects of vitamin C on divers ...

Remove from clipboard Cite Share

41

The content on the Clipboard can be deleted by using **"Remove All" (1)**. Individual items can also be deleted by ticking one or more items and choosing **"Remove from clipboard" (2)**.

The content in the Clipboard can be exported to EndNote by using the menu above the content **(3)**.

41

How to get a Fulltext Article?

Pubmed & free online articles:

Comment > Am Fam Physician, 76 (8), 1111, 1115 2007 Oct 15

The Role of Vitamin C in the Treatment of the Common Cold

Harri Hemilä
PMID: 17992770

Comment on

Treatment of the Common Cold
 M Simasek et al. Am Fam Physician 75 (4), 515-20, 2007. PMID 17323712. - Review
 The common cold is a viral illness that affects persons of all ages, prompting frequent use of over-the-counter and prescription medications and alternative remedies. Tre ...

FULL TEXT LINKS

1 FREE full text from **AFP**

NTNU

ACTIONS

Cite

Favorites

SHARE

Open access articles will have an icon for this in the top right corner **(1)**. Clicking this icon will send you to the full text.

PubMed has a special free full text filter on the left side of the result list showing you all free articles (remember that NTNU/St. Olav have access to a large number of journals through their subscriptions!).

42

42

How to get a Fulltext Article? Pubmed & the NTNU icon:

Comment > J Allergy Clin Immunol, 124 (4), 859; author reply 859-60 Oct 2009

Vitamin C for the Common Cold Should Not Be Rejected on the Basis of Old and Erroneous Articles

Harri Hemilä
PMID: 19660806 DOI: 10.1016/j.jaci.2009.06.015

Comment on

Complementary and Alternative Medicine: Herbs, Phytochemicals and Vitamins and Their Immunologic Effects
T Mainardi et al. J Allergy Clin Immunol 123 (2), 283-94; quiz 295-6. Feb 2009. PMID 19203652. - Review
Complementary and alternative medicines (CAMs) are used in more than 80% of the world's population and are becoming an increasing component of the US health care system, ...

FULL TEXT LINKS

- 1 ELSEVIER
FULL TEXT ARTICLE
- 2 NTNU

ACTIONS

- Cite
- Favorites

SHARE



A full text link from the publisher is available for many references (1), but will only give you access when we have a subscription or the article is open access.

Choose the NTNU-icon (2) to be sent to Oria and get correct information about access to the article and a link to the full text (if available). If you do not have access, you can order a copy from the library.

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How to get a Fulltext Article? Pubmed & the NTNU icon:

Vitamin C for the common cold should not be rejected on the basis of old and erroneous articles.
Harri Hemilä
ISSN: 0091-6749, 1097-6825; DOI: 10.1016/j.jaci.2009.06.015
The Journal of allergy and clinical immunology : including Allergy abstracts : official organ of the American Academy of Allergy, 2009, Vol.124(4), p.859; author reply 859-859; author reply 860
Tilgjengelig online

TILTOPPEN
LES ONLINE
BESTILL
SEND TIL

Les online ^

Logg på for å bestille Logg på

Fulltekst tilgjengelig på: [Elsevier ScienceDirect Journals Complete](#)
Tilgjengelig fra 01/01/1995 årgang: 95 Nummer/hefte: 1.

Fulltekst tilgjengelig på: [Health & Medical Collection](#)
Tilgjengelig fra 2002.
Nyeste 2 måned(er) ikke tilgjengelig.

Fulltekst tilgjengelig på: [Health Research Premium Collection](#)
Tilgjengelig fra 2002.
Nyeste 2 måned(er) ikke tilgjengelig.

Fulltekst tilgjengelig på: [SciTech Premium Collection](#)
Tilgjengelig fra 2002.
Nyeste 2 måned(er) ikke tilgjengelig.

In Oria you are told that you have access to the article and a link is provided.

Pay attention to any limitations in the access. This is important when we have access to a journal from different suppliers as some of these may have limitations.

NB! You have to be connected to the NTNU- or St Olavs-network to get access to subscription journals.

Use VPN if you are located outside NTNU

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How to get a Fulltext Article? Pubmed & the NTNU icon:

1 No full text available

2 BESTILL LÅN / BESTILL KOPPI

3 NB! You have to be logged on in Oria (3) for the order button to be available!

Log on with Feide/NTNU-credentials. St. Olav staff may contact the library to get information about log on credentials.

Most copies supplied from the library are free of charge.

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How to get a full text article LibKey Nomad:

LibKey Nomad is a program that can be installed as an addon to most web browsers and connected to NTNU's journal subscriptions. It will make available full text visible in the result list as shown on the figure.

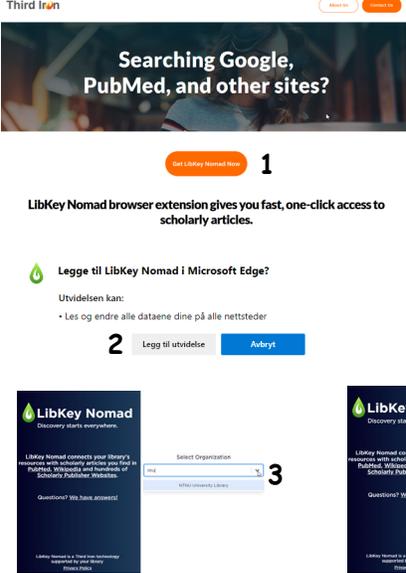
You can download the addon from:
<https://thirdiron.com/downloadnomad/>

LibKey Nomad is made by the producers of BrowZine, which NTNU subscribe to. In BrowZine you pack choose and follow you favourite journals. More information here:
<https://i.ntnu.no/wiki/-/wiki/English/BrowZine+-+Create+your+own+journal+library>

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How to get a full text article

LibKey Nomad:



Third Iron

Searching Google, PubMed, and other sites?

1 Get LibKey Nomad Now

LibKey Nomad browser extension gives you fast, one-click access to scholarly articles.

Legge til LibKey Nomad i Microsoft Edge?

Utvidelsen kan:

- Les og endre alle dataene dine på alle nettsteder

2 Legg til utvidelse Avbryt

3

4

Download the addon (1) and choose your web browser and activate the addon (2).

Choose NTNU as institution (3) and the addon is ready (4).

You will get information about and direct links to the full text in PubMed and other databases as shown in the previous slide.

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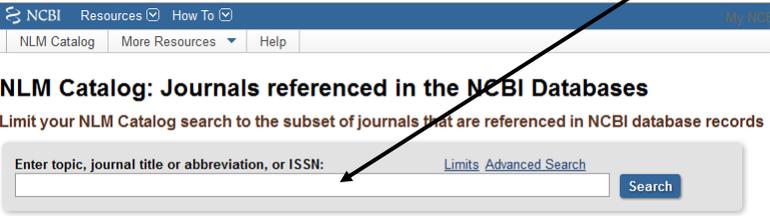
Finding Journal Information



Explore
MeSH Database
Journals

Choose "Journals database" from the PubMed homepage.

Search for full journal title or abbreviation



NCBI Resources How To My NCBI

NLM Catalog More Resources Help

NLM Catalog: Journals referenced in the NCBI Databases

Limit your NLM Catalog search to the subset of journals that are referenced in NCBI database records

Enter topic, journal title or abbreviation, or ISSN: [Limits](#) [Advanced Search](#)

The Journal Database can be used to find standard journal abbreviations.

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Finding Journal Information

When searching for a journal you will get abbreviations (1) and other information. You can also transfer a search to PubMed for articles published in a particular journal (2).

49

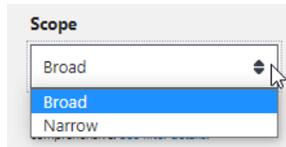
Clinical Queries - A tool for finding clinical information

Clinical Queries is available from PubMed's Homepage.

Clinical Queries provides a filtered search for different clinical categories (1). 2021: A COVID-19 filter has been introduced (2). Choose between a broad or narrow search (3). Use only a few search terms for CQ.

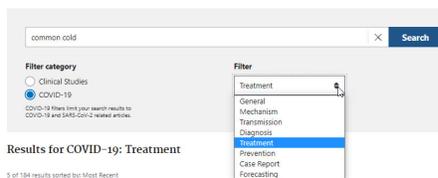
50

Clinical Queries - A tool for finding clinical information



Broad: Good chances of finding all relevant articles, but you will also get quite a few irrelevant hits.

Narrow: High precision with many relevant articles, but you risk losing a few relevant ones.



COVID-19: Chose the limit that is best for your inquiry.

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My NCBI

My NCBI is a tool that allow you to personalize PubMed and establish a personal area with your own password.

Available tools.:

- * Store your searches on PubMed.
- * Establish email alerts that will notify you when new articles matching your search is indexed in PubMed
- * Store filters that will automatically group your search results.
- * Change the way PubMed displays references.
- * Get colour labelling of your search terms.
- * Check your PubMed activity in the last six months.

You have to register (free) before using My NCBI, and log on with a personal username and password to get access to this service (automatic log on is possible).

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My NCBI Registration

⚠ Login Update Warning

The ability to create usernames and passwords has been disabled, but don't worry! You can still create an account using one of our 3rd party sign-in options. For more information about our transition to 3rd party sign-in, read the [NCBI Insights blog post](#) or visit the [FAQ page](#).

It is not possible anymore to create a personal user using a NCBI account. You have to use a third-party service like Google, Facebook, Microsoft or ORCID. Due to GDPR rules, it is not possible to use your (NTNU) account.

Users with existing NCBI accounts can access and use these until summer 2022. Check out NCBI's FAQ-page for more information.

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My NCBI Registration




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My NCBI **Brueke My NCBI**

National Library of Medicine
National Center for Biotechnology Information

PubMed.gov

pubmedkurseksempe1

Search

Advanced

ACCOUNT

Logged in as:
pubmedkurseksempe1

Dashboard **1**

Publications

Account settings

Log out

Advanced

Choose "Log in" on the top right corner to activate My NCBI. A person-icon shows that you are logged on. Click on this and choose "Dashboard" (1) to access your content in My NCBI.

55

My NCBI **Using My NCBI** Log out

Search NCBI databases

Search PubMed

6

My Bibliography

3

Recent Activity

5

Saved Searches

1

Collections

2

Filters for PubMed (3 active)

4

Log out

In My NCBI you will find saved searches and email alerts (1), saved collections (2), saved bibliographies (3), chosen filters (4) and your PubMed search history (5). Click «Search» (6) with an empty search field to return to PubMed.

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My NCBI **Using My NCBI**

The screenshot shows the My NCBI interface. On the left, there is a 'Search NCBI databases' section with a dropdown menu set to 'PubMed' and a 'Search' button. A red circle with the number '1' is placed over the 'Search' button. Below this is the 'My Bibliography' section, which shows a list of recent citations. On the right, there is a 'Saved Searches' section with a table of saved searches. A red circle with the number '2' is placed over the 'Customize this page' link at the top of the page. At the bottom of the page, there is a '3 Done' button.

2

3 Done

57

You can customize the content of My NCBI by choosing «Customize this page» (1).
 Remove V for functions that you do not want to be displayed (2). Save your choices by clicking «Done» (3).

57

My NCBI **Using MyNCBI**

The screenshot shows the My NCBI interface. On the left, there is a 'Search NCBI databases' section with a dropdown menu set to 'PubMed' and a 'Search' button. A red circle with the number '1' is placed over the 'Search' button. Below this is the 'My Bibliography' section, which shows a list of recent citations. On the right, there is a 'Saved Searches' section with a table of saved searches. A red circle with the number '2' is placed over the 'Search' button in the 'Saved Searches' section. At the bottom of the page, there is a '3 Done' button.

2

3 Done

58

You can search in PubMed or other NCBI databases directly in MyNCBI (choose database from the drop down menu) (1).
 Click the Search-button with empty search field to be transferred to the PubMed main page.

58

My NCBI Save Search in My NCBI

A search is saved by clicking "Create alert" below the search field. This will save the search strategy, not the resulting references (but you can get these by running the search again).

59

My NCBI Save Search in My NCBI

Choose «No» (1) if you only want to save the search and not create an email alert.

Finish with «Save» (2).

You will get an confirmation that will disappear after a few seconds.

It is possible to edit/adjust the search here (3).

60

My NCBI Creating email alerts in My NCBI

Your saved search

Name of saved search: Nye PubMed test 2

Search terms: common cold AND (vitamin C OR fish oil) 5

Would you like email updates of new search results?

1 Yes No

Email: jan.rein@ub.ntnu.no (change) 2

Frequency: Monthly

Which day? 3 The first Sunday

Report format: Summary

Send at most: 5 items

Send even when there aren't any new results

Optional text in email:

4

Choose «Yes» (1) to create an email alert.

Add or change email (2).

Choose when and how often you want to receive the email alert and the form the message should have (3). Choose abstract for Report format and an higher option than 5 items to be received each time.

Finish with «Save» (4).

You will get an confirmation that will disappear after a few seconds.

It is possible to edit/adjust the search here (5).

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My NCBI Saved searches and email alerts

1

2

3

4

Log on to My NCBI and get access to your stored searches and alerts in "Saved Searches" (1).

Run a search (click on the name), Check whats new since last time, change to/from alert, or delete searches/alerts by clicking on (2).

Click on «Manage Saved Searches» (3) if you want to edit several searches at the same time (4).

Name	Database	Last Searched	Schedule
common cold AND (vitamin C OR fish oil)	PubMed	today	none
ICMID	PubMed	last year	none
test	PubMed	last year	none
test	PubMed	2 years ago	none
Quality of life search example	PubMed	231681	2 years ago
Demo	PubMed	16	2 years ago
Demo	PubMed	16	2 years ago
Oppoave RNY "Crown Diseases/etolog/MeSH) AND (Measles virus/MeSH...	PubMed	1	4 years ago
Oppoave 4D (Austvalen R-) AND (British journal of cancer/MeSH)	PubMed	0	4 years ago

62

My NCBI Saving individual references (MY Collection)

341 results

Save Email **Send to** 1 Sorted by: Best match

Clipboard x Clear selection

1 Vit Her Nut PMJ Citation manager My Bibliography Collections 2 article. Review. doi: 10.3390/nu040339.

Reg... C has shortened the duration of colds, indicating a biological effect. However, the role of vitamin C in common cold treatment is unclear.... Thus, the negative findings of some therapeutic common cold studies might be explained by the low doses of 3-4 g/day of vitamin C...

44 Cite Share

2 Vitamin C in the Prevention and Treatment of the Common Cold. Bucher A, White N. Am J Lifestyle Med. 2016 Feb 9;10(3):181-183. doi: 10.1177/1559827616629092. eCollection 2016 May-Jun.

Add to Collections

Selection: Selection (2)

3 Create a new collection Add to an existing collection

Choose a collection: Common cold

Add Cancel

You can create a personal clipboard on My NCBI where you can store interesting references (max. 500).

Log on to My NCBI.

Click on interesting references and choose "Send to" (1) and "Collections" (2).

The chosen references can be stored in a new collection or in an existing collection (3).

Finish with "Add".

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My NCBI Saving individual references (MY Collection)

PubMed.gov common cold AND (vitamin C OR fish oil) Search

Advanced User Guide

Search results Save Email **Send to** 1

Clipboard My Bibliography Collections 2 Citation manager

44 Cite Favorites

SHARE

It's possible to add references to your collections when you are viewing a single reference. Choose «Send to» (1) and "Collections" (2). See previous slide for more information.

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My NCBI **Using Search Filters**

MYNCBI FILTERS **2** 333 results

1 All (333)
 All Adult (79)
 Review (68)
 Norske artikler (0)
 – show fewer

Vitamin C for preventing and treating the **common cold**.
 Hemilä H and Chalker E. Cochrane Database Syst Rev 2013 - Review. PMID 23440782
 BACKGROUND: **Vitamin C (ascorbic acid)** for preventing and treating the **common cold** has been a subject of controversy for 70 years. OBJECTIVES: To find out whether **vitamin C** reduces the incidence, the duration or severity of the **common cold** when used either as a continuous regular supplementation every day or as a therapy at the onset of **cold** symptoms. ...

Active filters are shown on the upper left side of the result list (1).
 Click "My NCBI filters" (2) to access available filters or "Filters → "Manage Filters" (3) when you are inside My NCBI. In My NCBI, remove the tick to remove the filter (4).

Filters

Filters for: PubMed (3 active)

Active	Name	Type
<input checked="" type="checkbox"/>	Clinical Trial	Standard filter
4 <input checked="" type="checkbox"/>	Meta-analysis	Standard filter
<input checked="" type="checkbox"/>	Review	Standard filter

3 [Manage Filters »](#)

65

My NCBI **Using Search Filters**

My NCBI — Filters

You are managing filters for: PubMed Choose another database: PubMed (3 active)

Your PubMed filter list [Create custom filter](#)

Active	Name	Type
<input checked="" type="checkbox"/>	Clinical Trial	Standard filter
<input checked="" type="checkbox"/>	Meta-analysis	Standard filter
<input checked="" type="checkbox"/>	Review	Standard filter

Browse/Search for PubMed Filters

Select category:
1 Popular LinkOut Properties Links

Search with terms (optional): **2** Search

Active	Name	Description
<input checked="" type="checkbox"/>	Clinical Trial	
<input type="checkbox"/>	English	
<input type="checkbox"/>	English & Humans	
<input type="checkbox"/>	Free Full Text	links to Web accessible full text articles (all available free of charge)
<input type="checkbox"/>	Full Text	links to Web accessible full text articles (some may require subscription)
<input type="checkbox"/>	Humans	
<input type="checkbox"/>	Items with Abstracts	
<input type="checkbox"/>	Published in the last 5 years	
<input checked="" type="checkbox"/>	Review	articles that review the literature on a subject

Click "Popular" (1) to see frequently used filters. Mark of the filter you want to activate. A message "Filter has been activated" will briefly be displayed. Active filters can be deactivated by removing the mark in front of the filter name (a confirmation message will briefly be displayed).
 It is possible to search for filters if you know the filter name (2).

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My NCBI Using Search Filters

My NCBI — Filters

You are managing filters for: PubMed Choose another database: PubMed (4 active)

Your PubMed filter list

Active	Name	Type
<input checked="" type="checkbox"/>	Clinical Trial	Standard filter
<input checked="" type="checkbox"/>	Meta-analysis	Standard filter
<input checked="" type="checkbox"/>	Published in the last 5 years	Standard filter
<input checked="" type="checkbox"/>	Review	Standard filter

Important filters are found in "Properties" (1). Click on + to see different filters.

In this example (2), the filters «Clinical Trial», «Meta-analysis» og «Review» are chosen.

Deactivate filters by removing V.

It is possible to search for filters if you know the filter name (3).

Browse/Search for PubMed Filters

Select category: Popular LinkOut Properties Links

Search with terms (optional): Search

Active	Name	Description
<input type="checkbox"/>	Clinical Trial	
<input checked="" type="checkbox"/>	Meta-analysis	
<input type="checkbox"/>	Practice Guidelines	
<input type="checkbox"/>	Randomized Controlled Trial	
<input checked="" type="checkbox"/>	Review	articles that review the literature on a subject
<input type="checkbox"/>	Subsets	

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My NCBI Using Search Filters

PubMed.gov

common cold AND (vitamin C OR fish oil) Search

Advanced Create alert Create RSS User Guide

Save Email Send to Sorted by: Most recent Display options

MY NCBI FILTERS 357 results

All (357) 1

All Adult (85)

Review (72)

Systematic Review (10)

Norske artikler (0)

RESULTS BY YEAR

1945 2021

TEXT AVAILABILITY

Abstract

Variations in oxidative stress and antioxidant defense level during different phases of hibernation in common Asian toad, *Duttaphrynus melanostictus*.

Cite Patnaik P, Sahoo DD. Biol Open. 2021 Jul 15;10(7):bio058567. doi: 10.1242/bio.058567. Epub 2021 Aug 5. PMID: 34350459 Free PMC article.

Share Contry to our hypothesis, increased oxidative stress with significantly higher lipid peroxidation, protein carbonylation, oxidized glutathione (GSSG): glutathione (GSH) ratio, and elevated antioxidants defense consisting of higher catalase activity and high ascorbic ...

Potential Role of Vitamins and Zinc on Acute Respiratory Infections Including Covid-19.

Cite Murni IK, Prawirohartono EP, Triasih R. Glob Pediatr Health. 2021 May 31;8:2333794X211021739. doi: 10.1177/2333794X211021739. eCollection 2021. PMID: 34104701 Free PMC article. Review.

Share Results: Vitamins D, and E did not reduce incidence of common cold in general, but vitamin C reduced by half in population with physical and environment stresses. Vitamins E and E shortened duration and reduced severity of common ...

When a filter is activated in My NCBI, your will get access to filtered search results in addition to the main search result (here Review, All Adult og "Norske artikler") (1).

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My NCBI Change PubMed Display

1

Search NCBI databases

Search PubMed

2

3

Choose "NCBI Site Preferences" (1). Here you can change PubMed settings and PubMed display.

Click on "Highlighting" (2) to choose color labeling of search terms. Click on preferred color and finish with "Save" (3).

All search terms will be color labeled as long as you are logged on to MyNCBI.

71

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Lost?

All databases have help pages and tutorials - Use them!

Contact the library if you need help!

post@bmh.ntnu.no

73 59 53 00

<https://www.ntnu.no/blogger/ub-mh/en/> (English)

<https://www.ntnu.no/blogger/ub-mh/> (Norwegian)

72

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