

آشنایی با پایگاه داده Pubmed



فاطمه صادقی غیاثی

دکتری تخصصی مدیریت اطلاعات سلامت

مرکز پزشکی مبتنی بر شواهد

1

Introduction

- A free resource supporting the search and retrieval of **biomedical and life sciences** literature
- Contains more than **36 million** citations and abstracts
- Available to the public online **since 1996**
 - ✓ *Medline: since 1964*



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Introduction

- PubMed facilitates searching across these NLM literature resources:

- ❖ MEDLINE

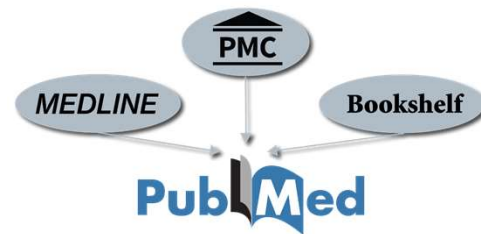
- ✓ more than 5,200 journals in about 40 languages

- ❖ PubMed Central (PMC)

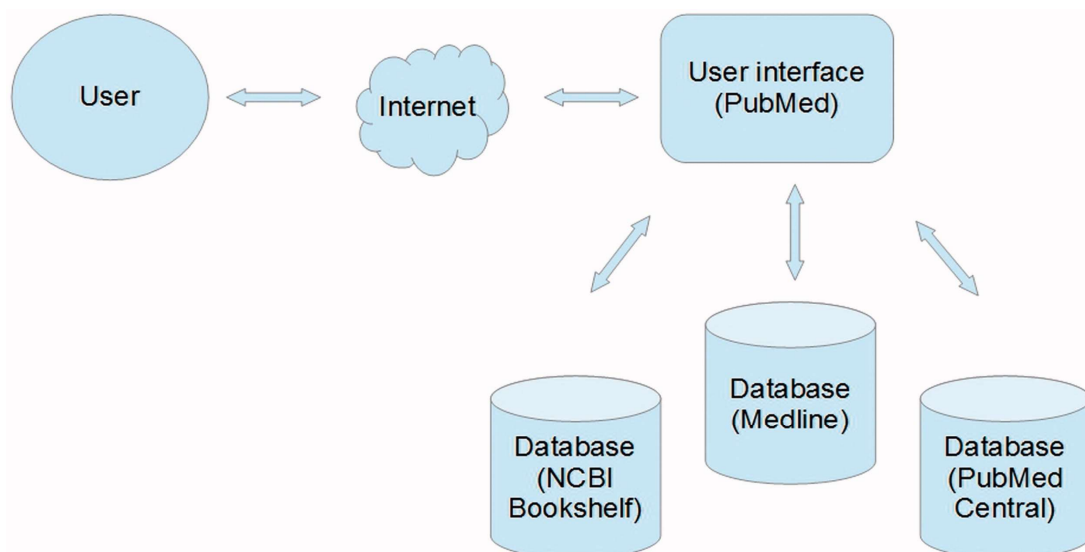
- ✓ more than 8 million full-text article

- ❖ Bookshelf

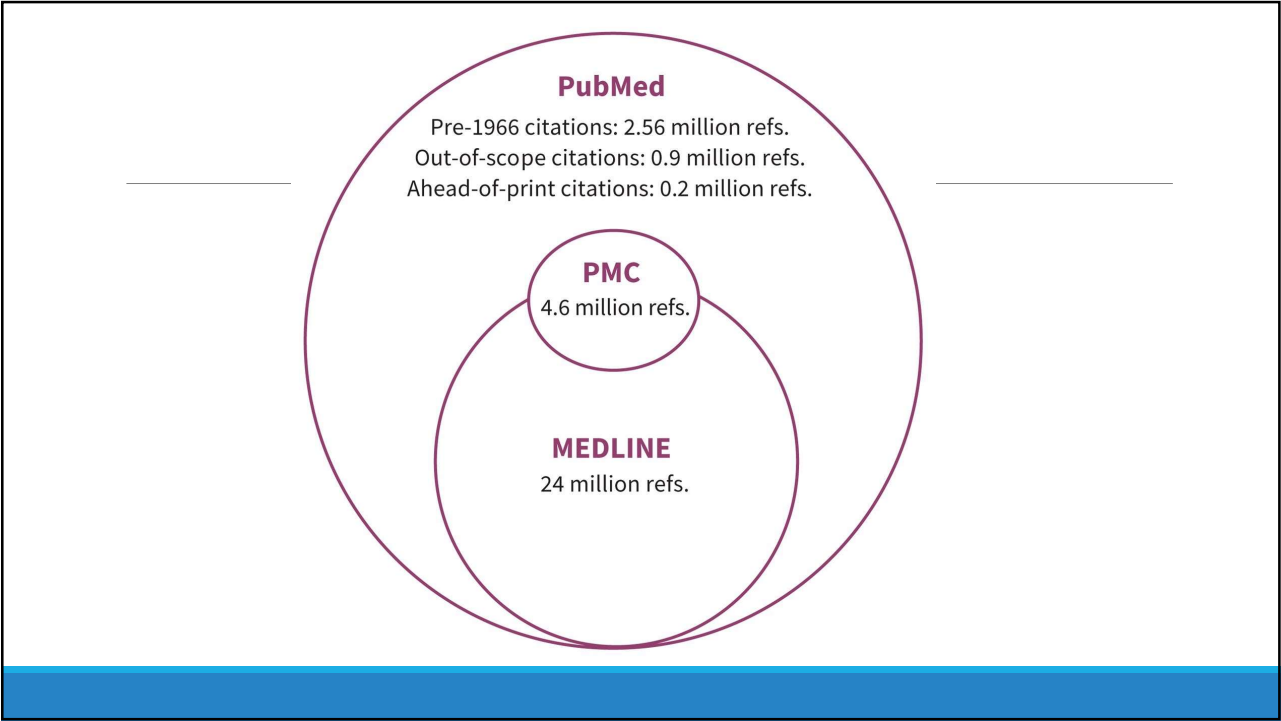
- ✓ a full text archive of books, reports, databases, and other documents related to biomedical, health, and life sciences



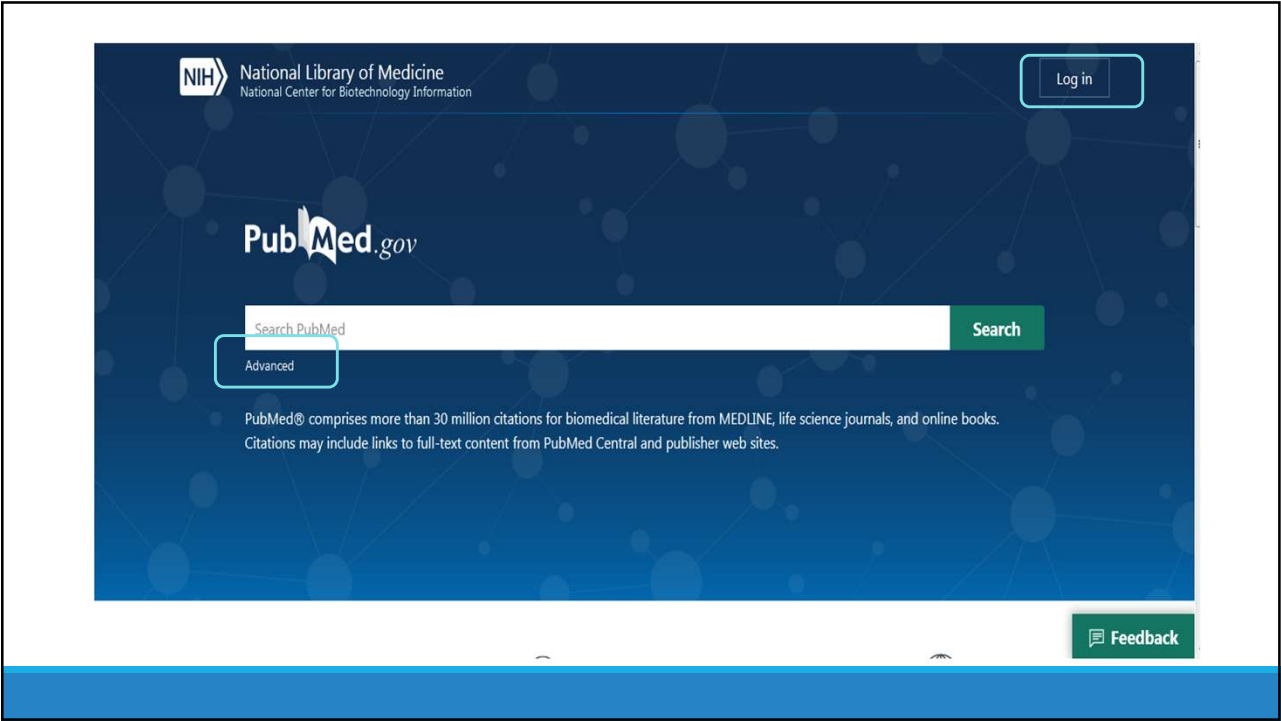
3



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5



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سوال

آیا واکسن کرونا در پیشگیری از بیماری کووید ۱۹
مؤثر است؟

7

سوال

آیا واکسن کرونا در پیشگیری از بیماری کووید ۱۹
مؤثر است؟

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PICO

P (Problem/Patient): Covid-19 ; coronavirus disease 2019 ; SARS-CoV-2 ;

I (Intervention): COVID-19 vaccine; vaccination;

C (Comparison):

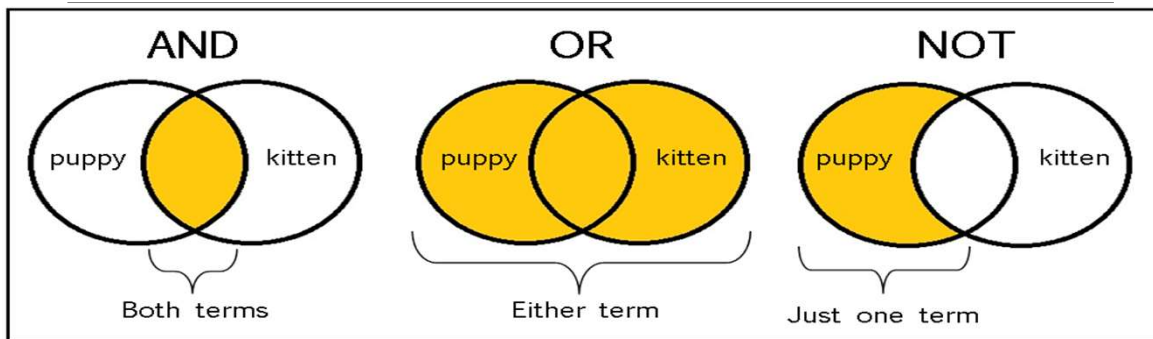
O (Outcome): Prevention; immunity;

9

روش اول

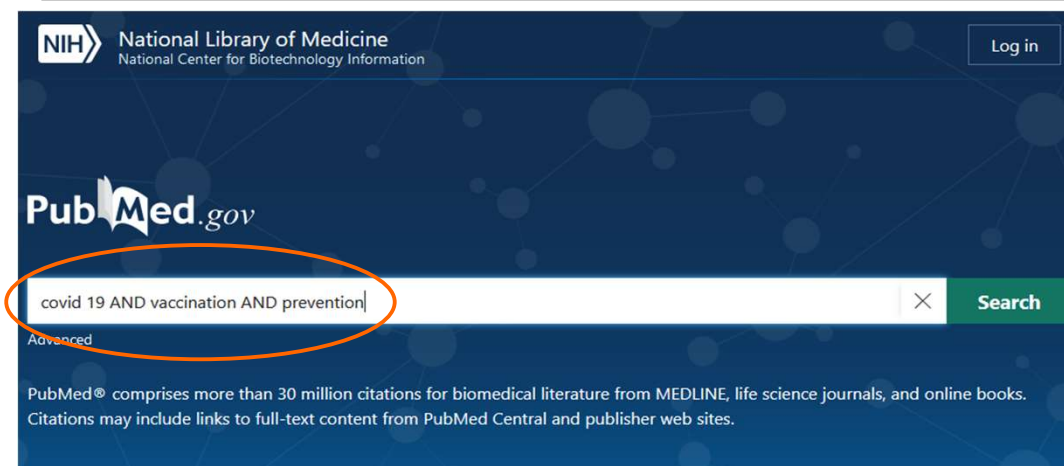
10

عملگرهای بولین



11

روش اول



12

PubMed.gov

Search: covid-19 AND vaccination AND prevention

Advanced Create alert Create RSS User Guide

Save Email Send to Sorted by: Best match Display options

MY NCBI FILTERS

2,991 results

RESULTS BY YEAR

TEXT AVAILABILITY

☐ Abstract

☐ COVID-19: Transmission, **prevention**, and potential therapeutic opportunities.

1 Lotfi M, Hamblin MR, Rezaei N.
Cite Clin Chim Acta. 2020 Sep;508:254-266. doi: 10.1016/j.cca.2020.05.044. Epub 2020 May 29.
PMID: 32474009 [Free PMC article](#). [Review](#).
Share The novel **coronavirus** disease (**COVID-19**) pandemic, caused by **severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)**, remains a global challenge. ...In this review, current therapeutic option ...

☐ COVID-19 and the immune system.

2 Paces J, Strizova Z, Smrz D, Cerny J.
Cite Physiol Res. 2020 Jul 16;69(3):379-388. doi: 10.33549/physiolres.934492. Epub 2020 May 29.
PMID: 32469225 [Free article](#). [Review](#).
Share

13

PubMed.gov

Search: covid-19 and vaccine

Advanced Create alert Create RSS User Guide

Save Email Send to Sorted by: Best match Display options

MY NCBI FILTERS

6,709 results

RESULTS BY YEAR

TEXT AVAILABILITY

☐ Abstract

☐ Free full text

☐ A Review of the Progress and Challenges of Developing a **Vaccine** for **COVID-19**.

1 Sharma O, Sultan AA, Ding H, Triggler CR.
Cite Front Immunol. 2020 Oct 14;11:585354. doi: 10.3389/fimmu.2020.585354. eCollection 2020.
PMID: 33163000 [Free PMC article](#). [Review](#).
Share A novel **coronavirus**, which has been designated as **severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)**, was first detected in December **2019** in Wuhan China and causes the highly infectious disease ...

☐ Safety and Efficacy of the BNT162b2 mRNA **Covid-19 Vaccine**.

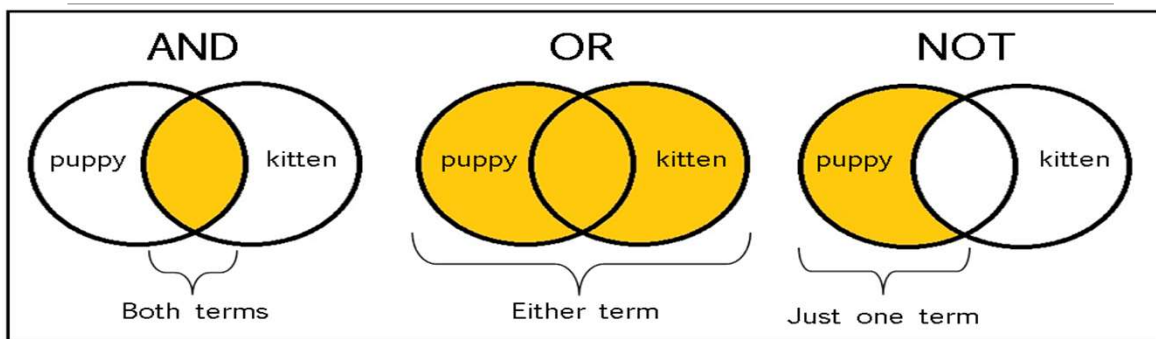
2 Polack FP, Thomas SJ, Kitchin N, Absalon J, Gurtman A, Lockhart S, Perez JL, Pérez Marc G, Moreira ED, Zerbini C, Bailey R, Swanson KA, Roychoudhury S, Koury K, Li P, Kalina WV, Cooper D, Frenck RW Jr, Hammitt LL, Türeci Ö, Nell H, Schaefer A, Ünal S, Tresnan DB, Mather S, Dormitzer PR, Şahin U, Jansen KU, ...

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روش دوم

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عملگرهای بولین



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PICO

Truncations: * ; ? ;

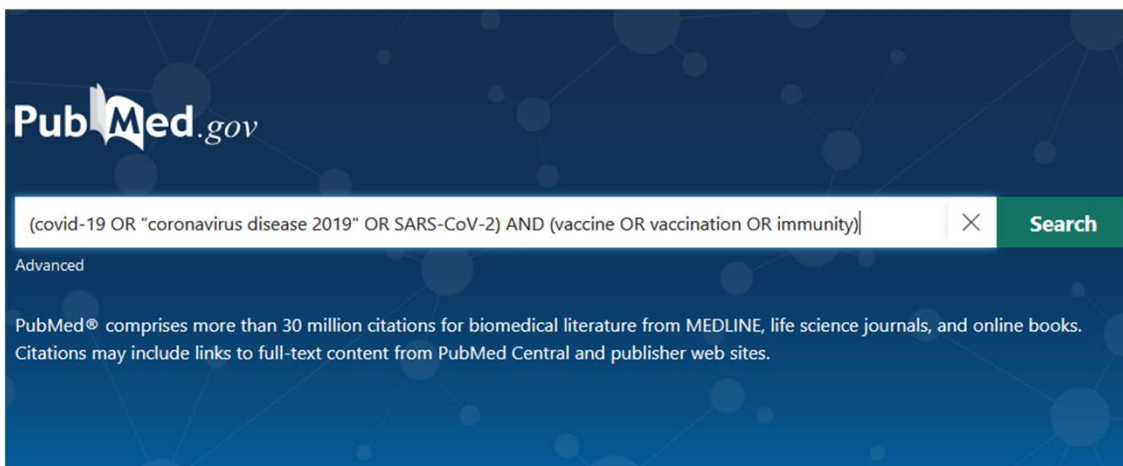
- **Vaccin***: vaccine; vaccination; vaccines; ...

Quotation mark: " " ; ' ' ;

- **"coronavirus disease 2019"**

17

روش دوم



18

PubMed.gov

s disease 2019" OR SARS-CoV-2) AND (vaccine OR vaccination OR immunity) X Search

Advanced Create alert Create RSS User Guide

Save Email Send to Sorted by: Best match Display options

MY NCBI FILTERS 12,690 results

RESULTS BY YEAR

2006 2021

TEXT AVAILABILITY

☐ Abstract

1 ☐ **SARS-CoV-2** causing pneumonia-associated **respiratory** disorder (**COVID-19**): diagnostic and proposed therapeutic options.

Cite Chakraborty C, Sharma AR, Sharma G, Bhattacharya M, Lee SS.

Share Eur Rev Med Pharmacol Sci. 2020 Apr;24(7):4016-4026. doi: 10.26355/eurev_202004_20871. PMID: 32329877 [Free article.](#) [Review.](#)

SARS-CoV-2 is responsible for the outbreak of **severe respiratory** illness (**COVID-19**) in Wuhan City, China and is now spreading rapidly throughout the world. ...Lastly, potentials candidates for the **vaccines** against **SARS** ...

2 ☐ **Current Status of Epidemiology, Diagnosis, Therapeutics, and Vaccines for Novel Coronavirus Disease 2019 (COVID-19).**

Ahn DG, Shin HJ, Kim MH, Lee S, Kim HS, Myoung J, Kim BT, Kim SI

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روش سوه (Advanced Search)

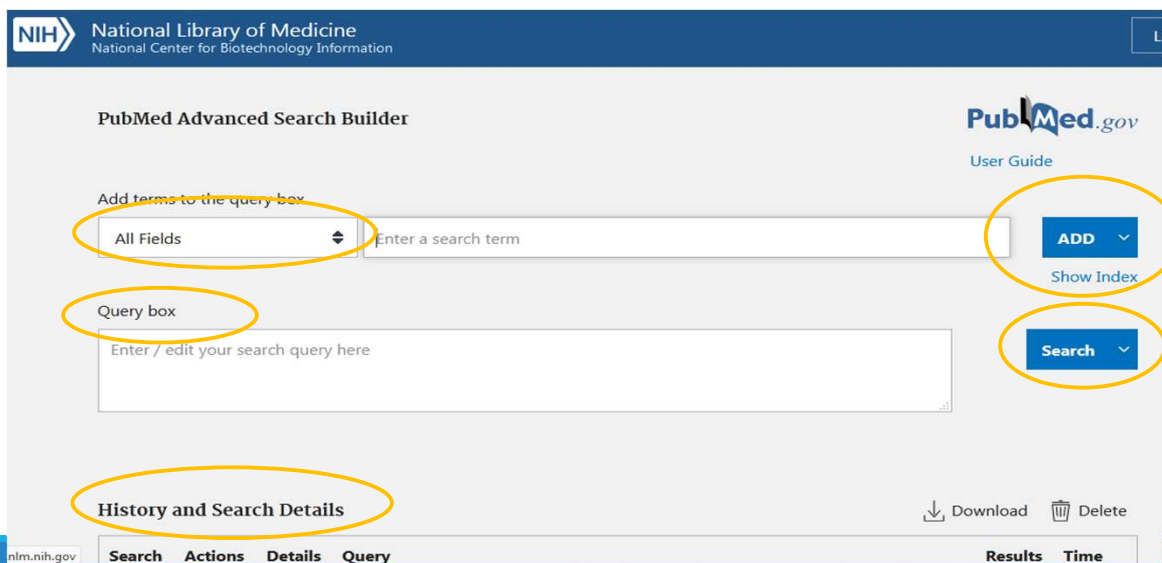
20

روش سوم

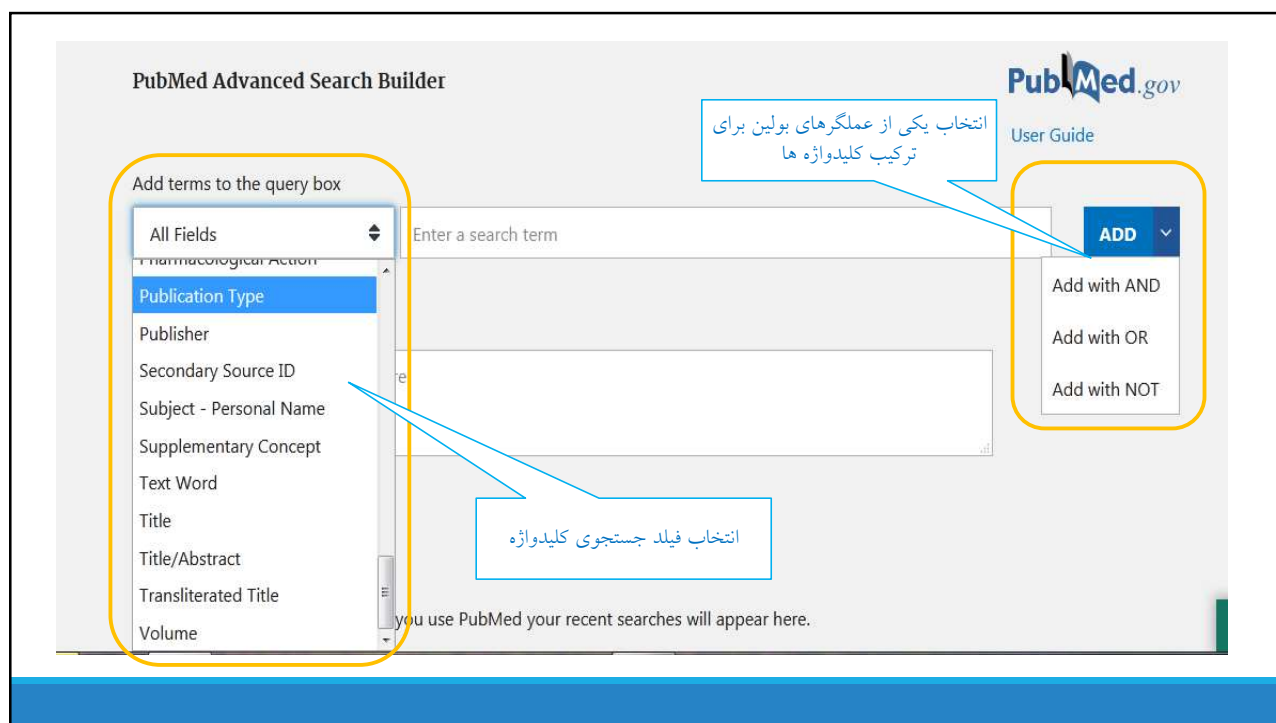


21

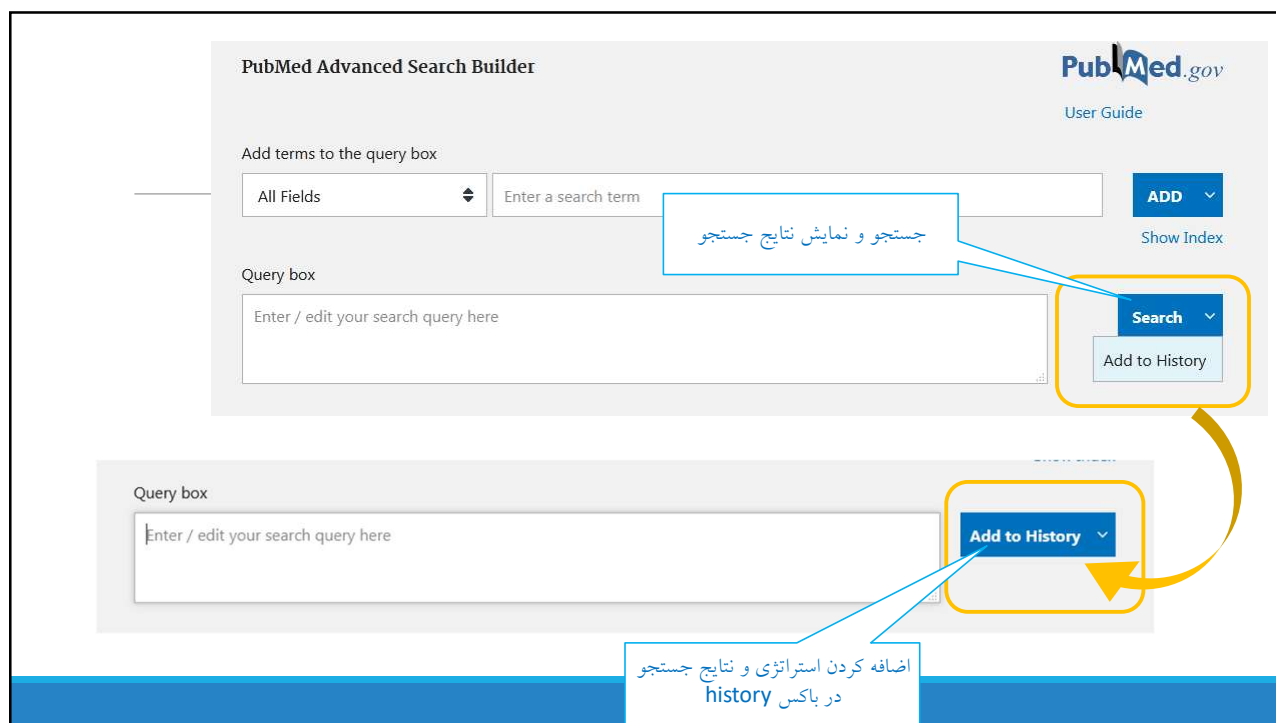
Advanced Search



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PubMed Advanced Search Builder PubMed.gov
User Guide

Add terms to the query box

All Fields ADD

Show Index

Query box

Search

History and Search Details Download Delete

Search	Actions	Details	Query	Results	Time
#13	...	>	Search: (covid-19 OR "coronavirus disease 2019" OR SARS-CoV-2) AND (vaccine OR vaccination OR immunity)	12,690	02:23:49
#6	...	>	Search: covid 19 AND vaccination AND prevention	2,991	02:22:15
#9	...	>	Search: covid 19 AND vaccination	6,709	02:03:03

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Search	Actions	Details	Query	Results	Time
#13	...		Search: (covid-19 OR "coronavirus disease 2019" OR SARS-CoV-2) AND (vaccine OR vaccination OR immunity) ("covid 19"[All Fields] OR "covid 19"[MeSH Terms] OR "covid 19 vaccines"[All Fields] OR "covid 19 vaccines"[MeSH Terms] OR "covid 19 serotherapy"[All Fields] OR "covid 19 serotherapy"[Supplementary Concept] OR "covid 19 nucleic acid testing"[All Fields] OR "covid 19 nucleic acid testing"[MeSH Terms] OR "covid 19 serological testing"[All Fields] OR "covid 19 serological testing"[MeSH Terms] OR "covid 19 testing"[All Fields] OR "covid 19 testing"[MeSH Terms] OR "sars cov 2"[All Fields] OR "sars cov 2"[MeSH Terms] OR "severe acute respiratory syndrome coronavirus 2"[All Fields] OR "ncov"[All Fields] OR "2019 ncov"[All Fields] OR (("coronavirus"[MeSH Terms] OR "coronavirus"[All Fields] OR "cov"[All Fields]) AND 2019/11/01:3000/12/31[Date - Publication]) OR "coronavirus disease 2019"[All Fields] OR ("sars cov 2"[MeSH Terms] OR "sars cov 2"[All Fields] OR "sars cov 2"[All Fields])) AND ("vaccin"[Supplementary Concept] OR "vaccin"[All Fields] OR "vaccination"[MeSH Terms] OR "vaccination"[All Fields] OR "vaccinable"[All Fields] OR "vaccinal"[All Fields] OR "vaccinate"[All Fields] OR "vaccinated"[All Fields] OR "vaccinates"[All Fields] OR "vaccinating"[All Fields] OR "vaccinations"[All Fields] OR "vaccination s"[All Fields] OR "vaccinator"[All Fields] OR "vaccinators"[All Fields] OR "vaccine s"[All Fields] OR "vaccined"[All Fields] OR "vaccines"[MeSH Terms] OR "vaccines"[All Fields] OR "vaccine"[All Fields] OR "vaccins"[All Fields] OR ("vaccin"[Supplementary Concept] OR "vaccin"[All Fields] OR "vaccination"[MeSH Terms] OR "vaccination"[All Fields] OR "vaccinable"[All Fields] OR "vaccinal"[All Fields] OR "vaccinate"[All Fields] OR "vaccinated"[All Fields] OR "vaccinates"[All Fields] OR "vaccinating"[All	12,690	02:23:49

جزئیات استراتژی جستجو در
باکس history

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User Guide

Add terms to the query box

Title/Abstract Enter a search term [Show Index](#)

Query box

(covid-19[Title/Abstract]) AND (vaccin*[Title/Abstract])

History and Search Details

Search	Actions	Details	Query	Results	Time
#16	...	Add with AND	covid-19[Title/Abstract] AND (vaccin*[Title/Abstract])	4,631	02:29:11
#13	...	Add with OR	covid-19 OR "coronavirus disease 2019" OR SARS-CoV-2	12,690	02:23:49
#6	...	Add with NOT	accine OR vaccination OR immunity)	2,991	02:22:15
#9	...	Delete	covid 19 AND vaccination AND prevention	6,709	02:03:03
		Create alert	covid 19 AND vaccination		

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نتایج جستجو

Sorted by: Best match

MY NCBI FILTERS

4,631 results

RESULTS BY YEAR

2006 2021

TEXT AVAILABILITY

☐ Abstract

☐ Free full text

☐ Full text

ARTICLE ATTRIBUTE

☐ Associated data

ARTICLE TYPE

☐ The cytokine storm and COVID-19.

1 Hu B, Huang S, Yin L.

Cite J Med Virol. 2020 Jun 27;10.1002/jmv.26232. doi: 10.1002/jmv.26232. Online ahead of print.

Share PMID: 32592501 [Free PMC article.](#) [Review.](#)

A growing body of clinical data suggests that a cytokine storm is associated with **COVID-19** severity and is also a crucial cause of death from **COVID-19**. In the absence of antivirals and **vaccines** for **COVID-19**, there is an urgent need ...

☐ A compendium answering 150 questions on COVID-19 and SARS-CoV-2.

2 Riggioni C, Comberiati P, Giovannini M, Agache I, Akdis M, Alves-Correia M, Antó JM, Arcolaci A, Azkur AK, Azkur D, Beken B, Boccabella C, Bousquet J, Breiteneder H, Carvalho D, De Las Vecillas L, Diamant Z, Eguluz-Gracia I, Eiwegger T, Eyerich S, Folkens W, Gao YD, Hannachi F, Johnston SL, Jutel M, Karavelia A, Klimek L, Moya B, Nadeau KC, O'Hehir R, O'Mahony L, Pfaar O, Sanak M, Schwarze J, Sokolowska M, Torres MJ, van de Veen W, van Zelm MC, Wang Y, Zhang L, Jiménez-Saiz R, Akdis CA.

Cite Allergy. 2020 Oct;75(10):2503-2541. doi: 10.1111/all.14449. Epub 2020 Jul 20.

Share PMID: 32535955 [Free PMC article.](#) [Review.](#)

The epidemiologic features of **COVID-19** are distinctive and have changed throughout the pandemic. ...However, basic and clinical research on **COVID-19**-related topics should be based on

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Save

Email

Send to

Sorted by: Best match

Display options

833 results

Save citations to file

Selection: All results on this page

Format:

Summary (text)
Summary (text)
PubMed
PMID
Abstract (text)
CSV

833 results

29

Save

Email

Send to

Sorted by: Best match

Display options

833 results

Email citations

Subject: (covid-19 or coronavirus 2019 or SARS-Cov-2) and - PubMed

To:

Selection: All results on this page

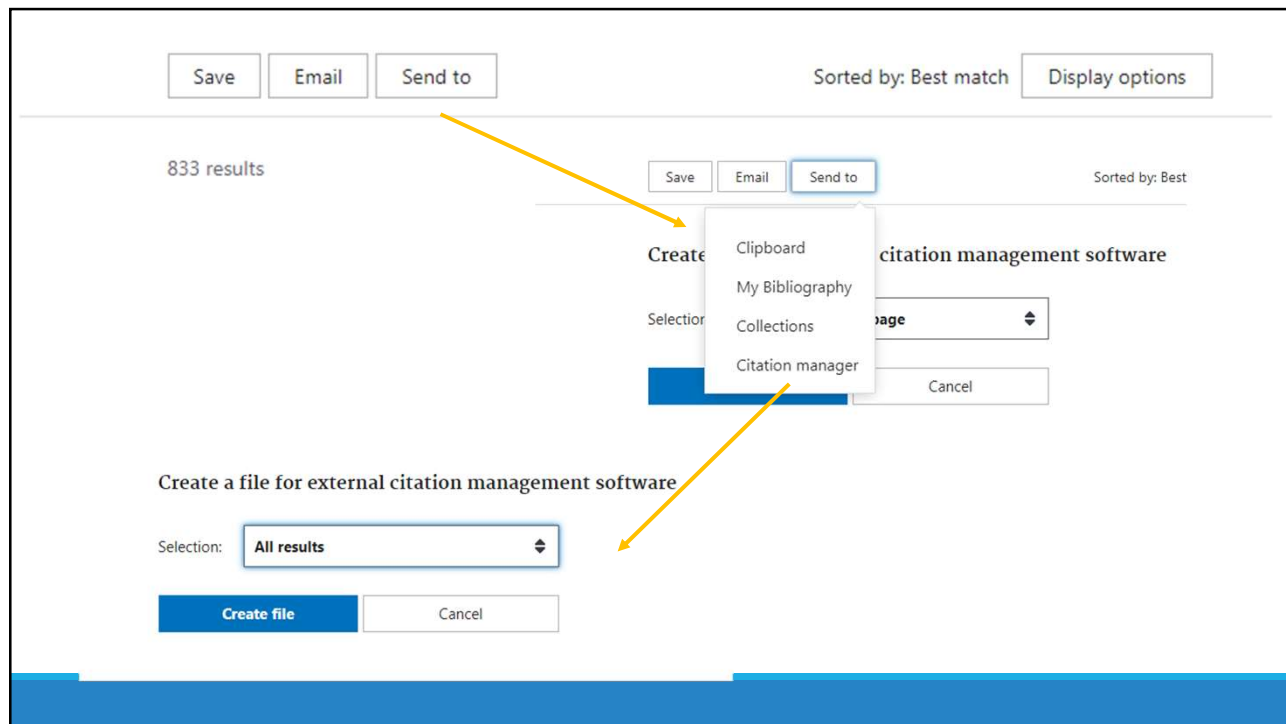
Format: Summary

☐ I'm not a robot 
reCAPTCHA
Privacy - Terms

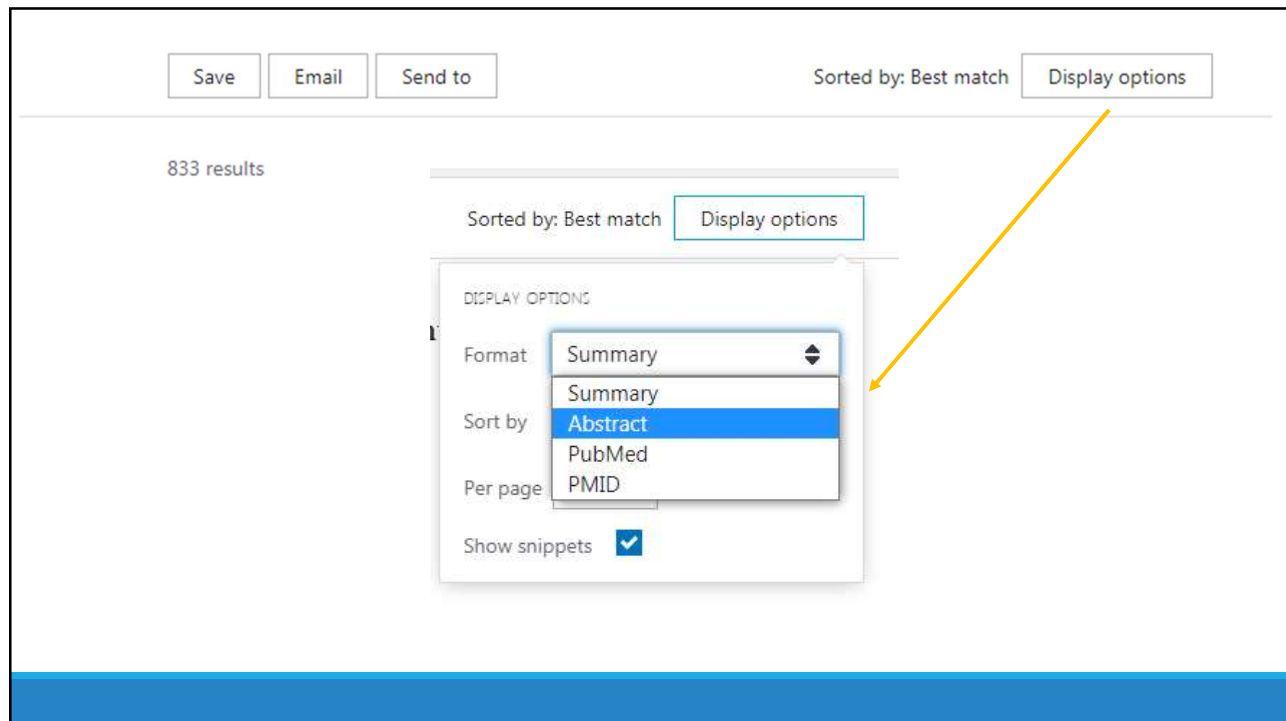
Send email

Cancel

30



31



32

MY NCBI FILTERS  6,709 results

RESULTS BY YEAR



2006 2021

TEXT AVAILABILITY

☐ Abstract

☐ Free full text

☐ Full text

ARTICLE ATTRIBUTE

☐ Associated data

ARTICLE TYPE

☐ Books and Documents

☐ Clinical Trial

☐ Meta-Analysis

1

[Review](#) > [Theranostics](#). 2020 Jun 19;10(17):7821-7835. doi: 10.7150/thno.47987. eCollection 2020.

COVID-19: Progress in diagnostics, therapy and vaccination

Xue Liu ¹, Chao Liu ², Gang Liu ², Wenxin Luo ¹, Ningshao Xia ¹

Affiliations [+ expand](#)

PMID: 32685022 PMCID: [PMC7359073](#) DOI: [10.7150/thno.47987](#)

[Free PMC article](#)

Abstract

Coronavirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has recently become a pandemic. As the sudden emergence and rapid spread of SARS-CoV-2 is endangering global health and the economy, the development of strategies to contain the virus's spread are urgently needed. At present, various diagnostic kits to test for SARS-CoV-2 are available for use to initiate appropriate treatment faster and to limit further spread of the virus. Several drugs have demonstrated *in vitro* activity against SARS-CoV-2 or potential clinical benefits. In addition, institutions and companies worldwide are working tirelessly to develop treatments and vaccines against COVID-19. However, no drug or vaccine has yet been specifically approved for COVID-19. Given the

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RESULTS BY YEAR



2006 2021

TEXT AVAILABILITY

☐ Abstract

☐ Free full text

☐ Full text

ARTICLE ATTRIBUTE

☐ Associated data

ARTICLE TYPE

☐ Books and Documents

☐ Clinical Trial

☐ Meta-Analysis

☐ Randomized Controlled Trial

☐ Review

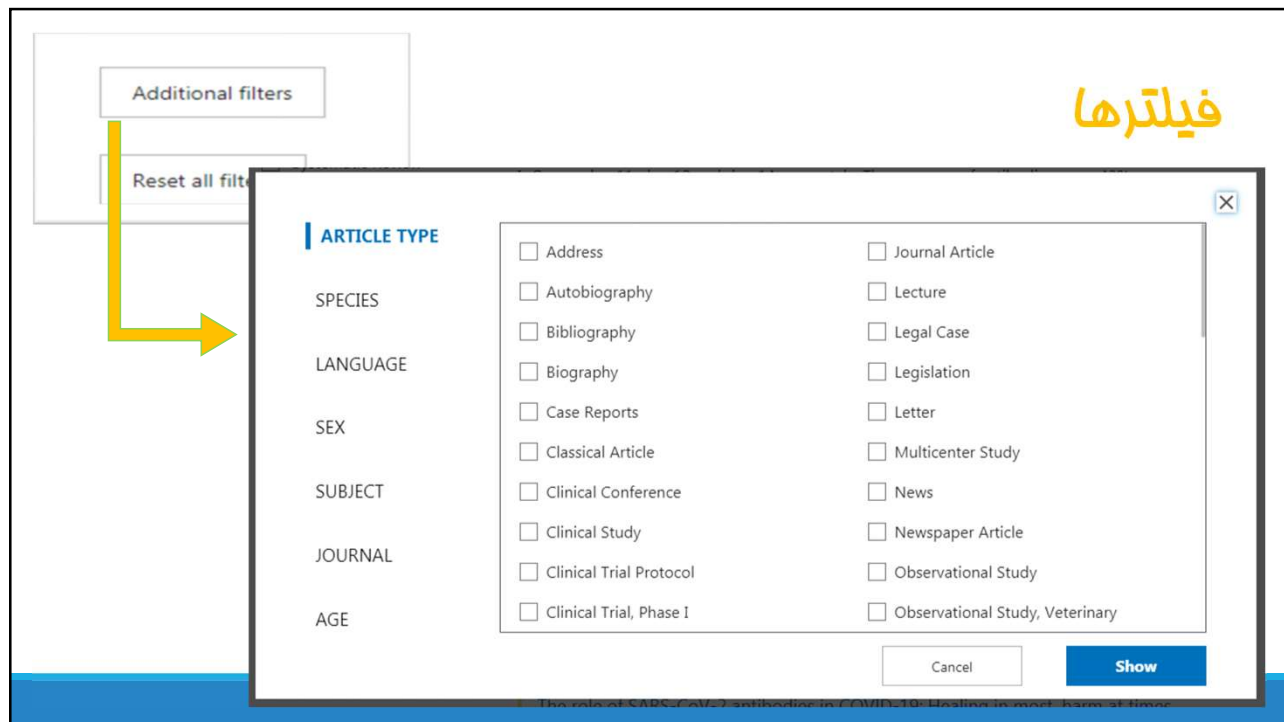
☐ Systematic Review

فیلترها

[Additional filters](#)

[Reset all filters](#)

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Search results Save Email Send to Display options

Review > Transfusion. 2020 Jun;60(6):1123-1127. doi: 10.1111/trf.15843. Epub 2020 May 12.

Convalescent plasma to treat coronavirus disease 2019 (COVID-19): considerations for clinical trial design

Paul Barone ¹, Robert A DeSimone ¹

Affiliations + expand
PMID: 32374891 PMCID: PMC7267607 DOI: 10.1111/trf.15843
[Free PMC article](#)

Abstract

Case series studying convalescent plasma use in the treatment of COVID-19 have been promising, but additional, high-quality studies are needed to determine the efficacy of the treatment when applied for prophylaxis, for early phases of illness, and for severe illness. Previous studies of convalescent plasma in treating other viral diseases have identified factors to consider when designing treatment protocols, including timing of administration relative to onset of illness, timing of donation relative to resolution of symptoms, severity of illness of the donor, pretransfusion serology of the recipient, and antibody titers of the donor. There are many clinical trials studying treatment of, and prophylaxis against, COVID-19 using convalescent plasma. In addition to clinical trials, the FDA also allows treatment through two other pathways: the "Expanded Access to Convalescent Plasma for the Treatment of Patients with COVID-19" protocol, and emergency investigational new drug applications. The FDA also provides criteria for donation of convalescent plasma.

FULL TEXT LINKS
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[PMC Full text](#)

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Abstract
Conflict of interest statement

Feedback

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Cite

considerations for clinical trial

CITATION TEXT

Barone, P., & DeSimone, R. A. (2020). Convalescent plasma to treat coronavirus disease 2019 (COVID-19): considerations for clinical trial design. *Transfusion*, 60(6), 1123–1127. <https://doi.org/10.1111/trf.15843>

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Page Navigation

Supplementary concepts

- > COVID-19
- > severe acute respiratory syndrome coronavirus

Related information

MedGen

LinkOut - more resources

Full Text Sources

- Europe PubMed Central
- Ovid Technologies, Inc.
- PubMed Central
- Wiley

Medical

- MedlinePlus Health Information

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LinkOut - more resources

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MeSH terms

- > Antibodies, Viral / blood*
- > Betacoronavirus / immunology*
- > Blood Component Transfusion / methods*
- > Clinical Trials as Topic / methods*
- > Convalescence*
- > Coronavirus Infections / immunology
- > Coronavirus Infections / therapy*
- > Coronavirus Infections / virology
- > Humans
- > Pandemics
- > Plasma / immunology*
- > Pneumonia, Viral / immunology
- > Pneumonia, Viral / therapy*
- > Pneumonia, Viral / virology
- > Research Design

Substances

- > Antibodies, Viral

PAGE NAVIGATION

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MeSH Database

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The image shows the PubMed.gov homepage. At the top is the PubMed.gov logo. Below it is a search bar with the placeholder text "Search PubMed" and a green "Search" button. Under the search bar, the word "Advanced" is visible. A paragraph of text states: "PubMed® comprises more than 30 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites." At the bottom, there are four main sections: "Learn" (with a lightbulb icon), "Find" (with a magnifying glass icon), "Download" (with a download arrow icon), and "Explore" (with a globe icon). The "Explore" section is highlighted with a yellow border and contains the following links: "MeSH Database", "Journals", and "Legacy PubMed (available until at least 10/31/2020)".

PubMed.gov

Search PubMed **Search**

Advanced

PubMed® comprises more than 30 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

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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 10/31/2020)

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MeSH Homepage (in Pubmed)

The screenshot shows the MeSH homepage. At the top is the NIH logo and the text "National Library of Medicine National Center for Biotechnology Information". A "Log in" button is in the top right. Below the header is a search bar with "MeSH" in the dropdown and a "Search" button. Links for "Limits" and "Advanced" are next to the search bar, and a "Help" link is on the far right. A large banner image of a forest is on the left. To the right of the image, the text reads: "MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used for indexing articles for PubMed." Below the banner, there are two columns of links. The left column, titled "Using MeSH", includes "Help" and "Tutorials". The right column, titled "More Resources", includes "E-Utilities" and "NLM MeSH Homepage".

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The screenshot shows the MeSH search results page for the query "coronavirus". The header is the same as the previous slide. The search bar contains "coronavirus" and the "Search" button is highlighted. Below the search bar, there are links for "Create alert", "Limits", and "Advanced". The results are displayed in a list format. The first result is highlighted with a yellow box: "1. [Coronavirus](#) A member of CORONAVIRIDAE which causes respiratory or gastrointestinal disease in a variety of vertebrates. Year introduced: 1994". The second result is: "2. [Middle East Respiratory Syndrome Coronavirus](#) A coronavirus first reported in the summer of 2012 in a pneumonia patient in SAUDI ARABIA. It is related to SEVERE ACUTE RESPIRATORY SYNDROME-RELATED CORONAVIRUS. MERS-CoV has an estimated incubation period of 12 days and symptoms include renal failure and severe acute pneumonia with often fatal outcome. Year introduced: 2015". The third result is: "3. [Spike Glycoprotein Coronavirus](#) A class I viral fusion protein that forms the characteristic spikes, or peplomers, found on the viral surface that mediate virus attachment, fusion, and entry into the host cell. During virus maturation, it is cleaved into two subunits: S1, which binds to receptors in the host cell, and S2, which mediates membrane fusion. Year introduced: 2014". The fourth result is: "4. [Coronavirus NL63 Human](#) A species in the genus CORONAVIRUS causing upper and lower RESPIRATORY TRACT INFECTIONS. It shares the receptor used by the SARS VIRUS. Year introduced: 2011". The fifth result is: "5. [Porcine Respiratory Coronavirus](#) A mutant strain of TRANSMISSIBLE GASTROENTERITIS VIRUS causing mild or subclinical respiratory infections in young SWINE. It may also play a role in post-weaning porcine respiratory disease complex, especially when combined with other respiratory agents. Year introduced: 2004". On the right side of the page, there is a "PubMed Search Builder" section with a search box and buttons for "Add to search builder", "AND", and "Search PubMed". Below that is a "Find related data" section with a "Database" dropdown and a "Find items" button. At the bottom right, there is a "Search details" section showing the search query: "coronavirus"[MeSH Terms] OR coronavirus[Text Word] and a "Search" button. A "Recent Activity" section is also visible at the bottom right.

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

Summary ▾ 20 per page ▾

Search results
Items: 1 to 20 of 207

1. [COVID-19 Serotherapy](#)
Transfer of blood plasma derived from patients who have recovered from COVID-19 to non-immune hosts.
Year introduced: 2023 (2020)

2. [COVID-19 Testing](#)
Diagnosis of COVID-19 by assaying bodily fluids or tissues for the presence of COVID-19 antibodies, SARS-CoV-2 antigens or the VIRAL RNA of SARS-CoV-2.
Year introduced: 2021

3. [COVID-19 Vaccines](#)
Vaccines or candidate vaccines containing SARS-CoV-2 component antigens, genetic materials, or inactivated SARS-CoV-2 virus, and designed to prevent COVID-19.
Year introduced: 2021

4. [COVID-19 Serological Testing](#)
Diagnosis of COVID-19 by assaying bodily fluids or tissues for the presence antibodies specific to SARS-CoV-2 or its antigens.
Year introduced: 2021

5. [COVID-19 Nucleic Acid Testing](#)
Diagnosis of COVID-19 by assaying bodily fluids or tissues for the presence of the VIRAL RNA of SARS-CoV-2.
Year introduced: 2021

6. [COVID-19](#)
A viral disorder generally characterized by high FEVER; COUGH; DYSPNEA; CHILLS; PERSISTENT TREMOR; MUSCLE PAIN; HEADACHE; SORE THROAT; a new loss of taste and/or smell (see AGEUSIA and ANOSMIA) and other symptoms of a VIRAL PNEUMONIA. In severe cases, a myriad of coagulopathy associated symptoms often correlating with COVID-19 severity is seen (e.g., BLOOD COAGULATION; THROMBOSIS; ACUTE RESPIRATORY DISTRESS SYNDROME; SEIZURES; HEART ATTACK; STROKE; multiple CEREBRAL INFARCTIONS; KIDNEY FAILURE; catastrophic ANTIPHOSPHOLIPID ANTIBODY SYNDROME and/or DISSEMINATED INTRAVASCULAR COAGULATION). In younger patients, rare inflammatory syndromes are sometimes associated with COVID-19 (e.g., atypical KAWASAKI SYNDROME; TOXIC SHOCK SYNDROME; pediatric multisystem inflammatory disease; and CYTOKINE STORM SYNDROME). A coronavirus, SARS-CoV-2, in the genus BETACORONAVIRUS is the causative agent.
Year introduced: 2021(2020)

7. [SARS-CoV-2](#)
A species of BETACORONAVIRUS causing atypical respiratory disease (COVID-19) in humans. The organism was first identified in 2019 in Wuhan, China. The natural host is the Chinese intermediate horseshoe bat, RHINOLOPHUS affinis.
Year introduced: 2021(2020)

Send to: ▾

PubMed Search Builder

AND ▾
 [YouTube Tutorial](#)

Find related data
Database:

Search details
"COVID-19"[All Fields] OR
"COVID-19"[MeSH Terms] OR
"COVID-19 Vaccines"[All Fields]
OR "COVID-19 Vaccines"[MeSH
Terms] OR "COVID-19
serotherapy"[All Fields] OR
 [See more...](#)

Recent Activity [Turn Off](#) [Clear](#)

COVID-19 (207) MeSH
covid-19 (207) MeSH
coronavirus (94) MeSH
covid 19 (207) MeSH
Potassium Channels MeSH
[See more...](#)

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

Summary ▾ 20 per page ▾

Search results
Items: 1 to 20 of 207 Selected: 2

1. [COVID-19 Serotherapy](#)
Transfer of blood plasma derived from patients who have recovered from COVID-19 to non-immune hosts.
Year introduced: 2023 (2020)

2. [COVID-19 Testing](#)
Diagnosis of COVID-19 by assaying bodily fluids or tissues for the presence of COVID-19 antibodies, SARS-CoV-2 antigens or the VIRAL RNA of SARS-CoV-2.
Year introduced: 2021

3. [COVID-19 Vaccines](#)
Vaccines or candidate vaccines containing SARS-CoV-2 component antigens, genetic materials, or inactivated SARS-CoV-2 virus, and designed to prevent COVID-19.
Year introduced: 2021

4. [COVID-19 Serological Testing](#)
Diagnosis of COVID-19 by assaying bodily fluids or tissues for the presence antibodies specific to SARS-CoV-2 or its antigens.
Year introduced: 2021

5. [COVID-19 Nucleic Acid Testing](#)
Diagnosis of COVID-19 by assaying bodily fluids or tissues for the presence of the VIRAL RNA of SARS-CoV-2.
Year introduced: 2021

6. [COVID-19](#)
A viral disorder generally characterized by high FEVER; COUGH; DYSPNEA; CHILLS; PERSISTENT TREMOR; MUSCLE PAIN; HEADACHE; SORE THROAT; a new loss of taste and/or smell (see AGEUSIA and ANOSMIA) and other symptoms of a VIRAL PNEUMONIA. In severe cases, a myriad of coagulopathy associated symptoms often correlating with COVID-19 severity is seen (e.g., BLOOD COAGULATION; THROMBOSIS; ACUTE RESPIRATORY DISTRESS SYNDROME; SEIZURES; HEART ATTACK; STROKE; multiple CEREBRAL INFARCTIONS; KIDNEY FAILURE; catastrophic ANTIPHOSPHOLIPID ANTIBODY SYNDROME and/or DISSEMINATED INTRAVASCULAR COAGULATION). In younger patients, rare inflammatory syndromes are sometimes associated with COVID-19 (e.g., atypical KAWASAKI SYNDROME; TOXIC SHOCK SYNDROME; pediatric multisystem inflammatory disease; and CYTOKINE STORM SYNDROME). A coronavirus, SARS-CoV-2, in the genus BETACORONAVIRUS is the causative agent.
Year introduced: 2021(2020)

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COVID-19

A viral disorder generally characterized by high FEVER, COUGH, DYSPNEA, CHILLS, PERSISTENT TREMOR, MUSCLE PAIN, HEADACHE, SORE THROAT, a new loss of taste and/or smell (see AGEUSIA and ANOSMIA) and other symptoms of a VIRAL PNEUMONIA. In severe cases, a myriad of coagulopathy associated symptoms often correlating with COVID-19 severity is seen (e.g. BLOOD COAGULATION, THROMBOSIS, ACUTE RESPIRATORY DISTRESS SYNDROME, SEIZURES, HEART ATTACK, STROKE, multiple CEREBRAL INFARCTIONS, KIDNEY FAILURE, catastrophic ANTIPHOSPHOLIPID ANTIBODY SYNDROME and/or DISSEMINATED INTRAVASCULAR COAGULATION). In younger patients, rare inflammatory syndromes are sometimes associated with COVID-19 (e.g. atypical KAWASAKI SYNDROME, TOXIC SHOCK SYNDROME, pediatric multisystem inflammatory disease, and CYTOKINE STORM SYNDROME). A coronavirus, SARS-CoV-2, in the genus BETACORONAVIRUS is the causative agent.

Year introduced: 2021(2020)

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☐ enzymology	☐ pathology	

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Tree Number(s): C01.748.610.763.500, C01.925.705.500, C01.925.782.600.550.200.163, C08.381.677.807.500, C08.730.610.763.500

MeSH Unique ID: D009086382

Entry Terms:

- COVID-19
- 2019-nCoV Infection
- 2019 nCoV Infection
- 2019-nCoV Infections
- Infection, 2019-nCoV
- SARS-CoV-2 Infection
- Infection, SARS-CoV-2

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See Also:

- [SARS-CoV-2](#)

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Respiratory Tract Infections
Pneumonia
Pneumonia, Viral
COVID-19
Post-Acute COVID-19 Syndrome

All MeSH Categories
Diseases Category
Infections
Virus Diseases
Pneumonia, Viral
COVID-19
Post-Acute COVID-19 Syndrome

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RNA Virus Infections
Nidovirales Infections
Coronaviridae Infections
Coronavirus Infections
COVID-19
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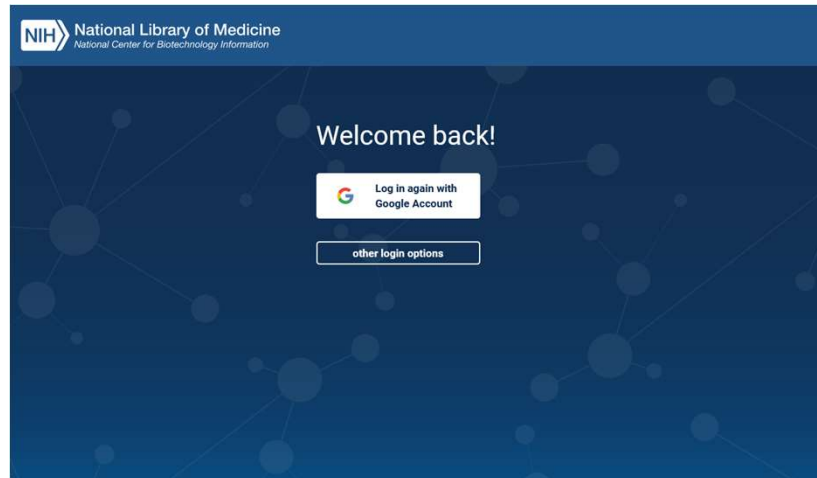
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Pneumonia
Pneumonia, Viral
COVID-19
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MeSH hierarchy

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