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# Search strategy and Searching databases

Faizul Hasan



# Outline

- Pendahuluan
- Membuat kombinasi keyword
- Memilih database



# Pendahuluan

- Proses pencarian artikel di beberapa database.
- Search strategy sangat menentukan jumlah study.
- Perlu di perhatikan apakah *sensitive* atau *specific*.
- Perlu mengadopsi study atau protocol yang sudah publish.
- Lakukan percobaan beberapa kali untuk melihat kombinasi yang bagus.



# Comprehensive search strategy

## Sensitive

- Mendapatkan study yang relevan
- Terlalu sensitive akan membutuhkan banyak effort untuk memilih

## Specific

- Pencarian dengan focus pada term yang spesifik
- Mengeluarkan study yang relevant
- Terlalu specific berisiko menghilangkan study yang mungkin penting



Journal section: Community and Preventive Dentistry

Publication Types: Review

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## Is there scientific evidence of the mouthwashes effectiveness in reducing viral load in Covid-19? A systematic review

Bianca L. Cavalcante-Leão <sup>1</sup>, Cristiano-Miranda de Araujo <sup>1</sup>, Isabela-Bittencourt Basso <sup>2</sup>, Angela-Graciela-De-liga Schroder <sup>2</sup>, Odilon Guariza-Filho <sup>3</sup>, Glória-Cortz Ravazzi <sup>1</sup>, Flavio-Magno Gonçalves <sup>1</sup>, Bianca-Simone Zeigelboim <sup>1</sup>, Rosane-Sampaio Santos <sup>1</sup>, José Stechman-Neto <sup>1</sup>

<sup>1</sup> Postgraduate Program in Communication Disorders, Tuiuti University of Paraná, Curitiba, Brazil

<sup>2</sup> Postgraduate Program in Dentistry, Pontifícia Universidade Católica do Paraná, Curitiba, Paraná, Brazil

<sup>3</sup> Department of Orthodontics, Pontifícia Universidade Católica do Paraná, Curitiba, Paraná, Brazil

*Correspondence:*

Pontifícia Universidade Católica do Paraná

Curitiba, Brazil

School of Health and Bioscience

Department of orthodontics

Street Imaculada Conceição, 1155, Prado Velho

80215-901 - Curitiba, PR – Brazil

[odilongfilho@gmail.com](mailto:odilongfilho@gmail.com)

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1. ((“coronavirus”[MeSH Terms]) OR (“coronavirus infections”[MeSH Terms]) OR (“coronavirus infections”[All Fields]) OR (“coronavirus”[All Fields]) OR (“covid 2019”[All Fields]) OR (“SARS2”[All Fields]) OR (“SARS-CoV-2”[All Fields]) OR (“SARS-CoV-19”[All Fields]) OR (“severe acute respiratory syndrome coronavirus 2”[supplementary concept][MeSH Terms]) OR (“coronavirus infection”[All Fields]) OR (“severe acute respiratory pneumonia outbreak”[All Fields]) OR (“novel cov”[All Fields]) OR (“2019ncov”[All Fields]) OR (“sars cov2”[All Fields]) OR (“cov2”[All Fields]) OR (“ncov”[All Fields]) OR (“covid-19”[All Fields]) OR (“covid19”[All Fields]) OR (“coronaviridae”[All Fields]) OR (“corona virus”[All Fields]) OR (“COVID-19 pandemic”[All Fields]) OR (“2019 novel coronavirus disease”[All Fields]) OR (“SARS-CoV-2 infection”[All Fields]) OR (“COVID-19 virus disease”[All Fields]) OR (“2019 novel coronavirus infection”[All Fields]) OR (“2019-nCoV infection”[All Fields]) OR (“coronavirus disease 2019”[All Fields]) OR (“coronavirus disease-19”[All Fields]) OR (“2019-nCoV disease”[All Fields]) OR (“COVID-19 virus infection”[All Fields]) OR (“2019-nCoV”[All Fields]) OR (“SARS-CoV-2”[All Fields]) OR (“SARS-CoV”[All Fields]) OR (“Mers-cov”[All Fields]) OR (“Mers cov”[All Fields]) OR (“Middle East Respiratory Syndrome Coronavirus”[MeSH Terms]) OR (“Middle East Respiratory Syndrome Coronavirus”[All Fields]) OR (“MERS Virus”[All Fields]) OR (“MERS Viruses”[All Fields]) OR (“Middle East respiratory syndrome-related coronavirus”[All Fields]) OR (“Middle East respiratory syndrome related coronavirus”[All Fields]) OR (“sars virus”[MeSH Terms]) OR (“sars virus”[All Fields]) OR (“Severe Acute Respiratory Syndrome Virus”[All Fields]) OR (“SARS-Related Coronavirus”[All Fields]) OR (“SARS Related Coronavirus”[All Fields]) OR (“Urbani SARS-Associated Coronavirus”[All Fields]) OR (“Urbani SARS Associated Coronavirus”[All Fields]) OR (“SARS Coronavirus”[All Fields]) OR (“Severe acute respiratory syndrome-related coronavirus”[All Fields]) OR (“Severe acute respiratory syndrome related coronavirus”[All Fields]) OR (“SARS-Associated Coronavirus”[All Fields]) OR (“SARS Associated Coronavirus”[All Fields]))
2. ((“mouthwashes”[Pharmacological Action][MeSH Terms]) OR (“mouthwashes”[MeSH Terms]) OR (“mouthwashes”[All Fields]) OR (“povidone-iodine”[MeSH Terms]) OR (“povidone-iodine”[All Fields]) OR (“povidone iodine”[All Fields]) OR (“Povidone-Iodines”[All Fields]) OR (“PVP-I”[All Fields]) OR (“PVP-Iodine”[All Fields]) OR (“PVP Iodine”[All Fields]) OR (“PVP-Iodines”[All Fields]) OR (“Polyvinylpyrrolidone Iodine”[All Fields]) OR (“Polyvinylpyrrolidone Iodines”[All Fields]) OR (“Betadine”[All Fields]) OR (“Betadines”[All Fields]) OR (“Providine”[All Fields]) OR (“Providines”[All Fields]) OR (“Disadine”[All Fields]) OR (“Disadines”[All Fields]) OR (“Isodine”[All Fields]) OR (“Isodines”[All Fields]) OR (“Pharmadine”[All Fields]) OR (“Pharmadines”[All Fields]) OR (“Alphadine”[All Fields]) OR (“Alphadines”[All Fields]) OR (“Betaisodona”[All Fields]) OR (“chlorhexidine”[MeSH Terms]) OR (“chlorhexidine”[All Fields]) OR (“Chlorhexidine Hydrochloride”[All Fields]) OR (“Tubulicid”[All Fields]) OR (“Novalsan”[All Fields]) OR (“Sebidin A”[All Fields]) OR (“Chlorhexidine Acetate”[All Fields]) OR (“MK-412A”[All Fields]) OR (“MK 412A”[All Fields]) OR (“MK412A”[All Fields]) OR (“hydrogen peroxide”[MeSH Terms]) OR (“hydrogen peroxide”[All Fields]) OR (“Hydrogen Peroxide (H2O2)”[All Fields]) OR (“Hydroperoxide”[All Fields]) OR (“Superoxol”[All Fields]) OR (“Oxydol”[All Fields]) OR (“Perhydrol”[All Fields]) OR (“Mouth Rinse”[All Fields]) OR (“Mouth Rinses”[All Fields]) OR (“Mouth Bath”[All Fields]) OR (“Mouth Baths”[All Fields]) OR (“mouthwash”[All Fields]) OR (“Mouth Wash”[All Fields]))



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Journal of Hospital Infection

journal homepage: [www.elsevier.com/locate/jhin](http://www.elsevier.com/locate/jhin)

Systematic review

## Do hydrogen peroxide mouthwashes have a virucidal effect? A systematic review

K.L. Ortega<sup>a</sup>, B.O. Rech<sup>a</sup>, G.L.C. El Haje<sup>a</sup>, C.B. Gallo<sup>a</sup>, M. Pérez-Sayáns<sup>b</sup>,  
P.H. Braz-Silva<sup>a,c,\*</sup><sup>a</sup>Department of Stomatology, School of Dentistry, University of São Paulo, São Paulo, Brazil<sup>b</sup>Oral Medicine Unit, Faculty of Dentistry, Universidad de Santiago de Compostela – Instituto de Investigación Sanitaria (IDIS), Santiago de Compostela, Spain<sup>c</sup>Laboratory of Virology (LIM-52), Institute of Tropical Medicine of São Paulo, School of Medicine, University of São Paulo, São Paulo, Brazil

### ARTICLE INFO

#### Article history:

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#### Keywords:

Coronavirus

Infection control

Mouthwashes

Saliva

Viral load

Viruses



### SUMMARY

**Background:** The presence of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in saliva has alerted health professionals to the possibility of contamination by aerosols generated in a number of procedures. The indication of preoperative mouthwash containing 1% hydrogen peroxide for reducing the viral load of SARS-CoV-2 in saliva prior to oral procedures has been significantly disseminated through several citations and influenced various dental associations in the elaboration of dental care protocols during this pandemic period, including patients admitted to hospital wards and intensive care units.**Aim:** To Our aim was to perform a systematic review to answer the following question: does hydrogen peroxide mouthwash (at any concentration) have a virucidal effect?**Methods:** The Cochrane, LILACS, PubMed, Scopus, and Embase databases were searched by using the following key-words: 'hydrogen peroxide', 'mouthwash', 'mouth rinse', 'rinse', 'oral rinse', 'mouth bath', 'mouth wash', and 'mouth washes'. Reviews, letters to the editor, personal opinions, book chapters, case reports, congress abstracts, studies with animals and studies on mouthwash containing other compounds other than hydrogen peroxide were excluded.**Findings:** During the initial search 1342 articles were identified on the five electronic databases. After excluding some duplicates, 976 articles remained. Only studies assessing the virucidal effect of hydrogen peroxide mouthwash were selected, regardless of publication date.**Conclusion:** After reading titles and abstracts, no article met the eligibility criteria. In conclusion, there is no scientific evidence supporting the indication of hydrogen peroxide mouthwash for control of the viral load regarding SARS-CoV-2 or any other viruses in saliva.

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### Information sources

Individual search strategies were developed for Cochrane, LILACS, PubMed, Scopus and Embase databases. The following keywords were used in the search: 'hydrogen peroxide', 'mouthwash', 'mouth rinse', 'rinse', 'oral rinse', 'mouth bath', 'mouth wash' and 'mouth washes' (further information is provided in [Appendix B](#)). Additionally, the grey literature was also searched by using ProQuest, Open Grey, and Google Scholar, in which the last was limited to the first 120 articles published. The lists of references on this theme were also searched. The above-mentioned databases, including the grey literature, were searched on May 30<sup>th</sup>, 2020.



# Appendix B

("hydrogen peroxide" OR "hydrogen peroxide"[MeSH Terms]) AND  
(mouthwash OR mouthwashes OR mouthwashes[MeSH Terms] OR  
"mouth rinse" OR rinse OR "oral rinse" OR "mouth bath" OR "mouth  
wash" OR "mouth washes")



# Membuat kombinasi keyword

Memperhatikan PICO, Misal:

- P: Covid-19
- I: Mouthwash
- C: control
- O: Viral load
- S: RCT

Mencari keyword **“Mouthwash”**, **“Viral load”**, dan **“Covid-19”**



# Membuat kombinasi keyword

PubMed Central® (PMC)

MeSH

MeSH

mouthwash

Search

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### COVID-19 Information

[Public health information \(CDC\)](#) | [Research information \(NIH\)](#) | [SARS-CoV-2 data \(NCBI\)](#) | [Prevention and treatment information \(HHS\)](#) | [Español](#)

Summary 20 per page

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### Search results

Items: 13



#### Mouthwashes

1. Solutions for rinsing the mouth, possessing cleansing, germicidal, or palliative properties. (From Boucher's Clinical Dental Terminology, 4th ed)  
Year introduced: 1965

#### Mouthwashes [Pharmacological Action]

- 2.

#### Dentifrices

3. Any preparations used for cleansing teeth; they usually contain an abrasive, detergent, binder and flavoring agent and may exist in the form of liquid, paste or powder; may also contain medicaments and caries preventives.

#### Sanguinaria

4. A plant genus of the family PAPAVERACEAE, a species of which is the source of sanguinarine extract used in **MOUTHWASHES**.  
Year introduced: 2003

#### PubMed Search Builder

Empty search builder input field

Add to search builder AND

Search PubMed

YouTube Tutorial

#### Find related data

Database: Select

Find items

#### Search details

```
"mouthwashes"[All Fields] OR
"mouthwashes"[MeSH Terms] OR
mouthwash[Text Word]
```



# COVID-19 Information



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## Mouthwashes

Solutions for rinsing the mouth, possessing cleansing, germicidal, or palliative properties. (From Boucher's Clinical Dental Terminology, 4th ed)  
Year introduced: 1965

PubMed search builder options  
[Subheadings:](#)

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> administration and dosage | <input type="checkbox"/> history                         | <input type="checkbox"/> poisoning                     |
| <input type="checkbox"/> adverse effects           | <input type="checkbox"/> isolation and purification      | <input type="checkbox"/> radiation effects             |
| <input type="checkbox"/> analysis                  | <input type="checkbox"/> metabolism                      | <input type="checkbox"/> standards                     |
| <input type="checkbox"/> chemical synthesis        | <input type="checkbox"/> organization and administration | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> chemistry                 | <input type="checkbox"/> pharmacokinetics                | <input type="checkbox"/> supply and distribution       |
| <input type="checkbox"/> classification            | <input type="checkbox"/> pharmacology                    | <input type="checkbox"/> therapeutic use               |
| <input type="checkbox"/> economics                 | <input type="checkbox"/> physiology                      | <input type="checkbox"/> toxicity                      |

- Restrict to MeSH Major Topic.
- Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): D25.583, D27.720.102.583, D27.720.269.583, J01.637.051.583  
MeSH Unique ID: D009067

Entry Terms:

- Mouth Rinse
- Mouth Rinses
- Rinse, Mouth
- Rinses, Mouth
- Mouth Bath
- Bath, Mouth
- Baths, Mouth
- Mouth Baths
- Mouth Wash
- Wash, Mouth



### PubMed Search Builder

Add to search builder AND ▾

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[Clinical Queries](#)

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[PubChem Compound](#)

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- Mouthwashes MeSH
- mouthwash (13) MeSH
- mouthwashe (0) MeSH

[See more...](#)

MeSH

MeSH

viral load

Search

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## Viral Load

The quantity of measurable virus in a body fluid. Change in viral load, measured in plasma, is sometimes used as a SURROGATE MARKER in disease progression.

Year introduced: 1997

PubMed search builder options

[Subheadings:](#)

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> adverse effects | <input type="checkbox"/> immunology                      | <input type="checkbox"/> psychology                    |
| <input type="checkbox"/> classification  | <input type="checkbox"/> instrumentation                 | <input type="checkbox"/> radiation effects             |
| <input type="checkbox"/> drug effects    | <input type="checkbox"/> methods                         | <input type="checkbox"/> standards                     |
| <input type="checkbox"/> economics       | <input type="checkbox"/> mortality                       | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> epidemiology    | <input type="checkbox"/> organization and administration | <input type="checkbox"/> therapeutic use               |
| <input type="checkbox"/> etiology        | <input type="checkbox"/> pharmacology                    | <input type="checkbox"/> trends                        |
| <input type="checkbox"/> genetics        | <input type="checkbox"/> physiology                      | <input type="checkbox"/> veterinary                    |
| <input type="checkbox"/> history         |  |  |

Restrict to MeSH Major Topic.

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

Tree Number(s): E01.370.225.875.950, E05.200.875.950, G06.920.850

MeSH Unique ID: D019562

Entry Terms:

- Load, Viral
- Viral Burden
- Burden, Viral
- Virus Titer



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### Related information

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[PubMed - Major Topic](#)

[Clinical Queries](#)

[NLM MeSH Browser](#)

### Recent Activity

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- viral load (1) MeSH
- Viral Load MeSH
- Mouthwashes MeSH



MeSH

MeSH

COVID-19

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### COVID-19 Information

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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)

PubMed search builder options

[Subheadings:](#)

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> analysis              | <input type="checkbox"/> enzymology                    | <input type="checkbox"/> pathology                     |
| <input type="checkbox"/> anatomy and histology | <input type="checkbox"/> epidemiology                  | <input type="checkbox"/> physiology                    |
| <input type="checkbox"/> blood                 | <input type="checkbox"/> ethnology                     | <input type="checkbox"/> physiopathology               |
| <input type="checkbox"/> cerebrospinal fluid   | <input type="checkbox"/> etiology                      | <input type="checkbox"/> prevention and control        |
| <input type="checkbox"/> chemically induced    | <input type="checkbox"/> genetics                      | <input type="checkbox"/> psychology                    |
| <input type="checkbox"/> classification        | <input type="checkbox"/> history                       | <input type="checkbox"/> radiotherapy                  |
| <input type="checkbox"/> complications         | <input type="checkbox"/> immunology                    | <input type="checkbox"/> rehabilitation                |
| <input type="checkbox"/> congenital            | <input type="checkbox"/> legislation and jurisprudence | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> diagnosis             | <input type="checkbox"/> metabolism                    | <input type="checkbox"/> surgery                       |
| <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"/> transmission                  |

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#### Related information

PubMed

PubMed - Major Topic

Clinical Queries

NLM MeSH Browser

#### Recent Activity

Turn Off Clear

COVID-19

MeSH

covid-19 (104)

MeSH

#### Entry Terms:

- COVID 19
- COVID-19 Virus Disease
- COVID 19 Virus Disease
- COVID-19 Virus Diseases
- Disease, COVID-19 Virus
- Virus Disease, COVID-19
- COVID-19 Virus Infection
- COVID 19 Virus Infection
- COVID-19 Virus Infections
- Infection, COVID-19 Virus
- Virus Infection, COVID-19
- 2019-nCoV Infection
- 2019 nCoV Infection
- 2019-nCoV Infections
- Infection, 2019-nCoV
- Coronavirus Disease-19
- Coronavirus Disease 19
- 2019 Novel Coronavirus Disease
- 2019 Novel Coronavirus Infection
- 2019-nCoV Disease
- 2019 nCoV Disease
- 2019-nCoV Diseases
- Disease, 2019-nCoV
- COVID19
- Coronavirus Disease 2019
- Disease 2019, Coronavirus
- SARS Coronavirus 2 Infection
- SARS-CoV-2 Infection
- Infection, SARS-CoV-2
- SARS CoV 2 Infection
- SARS-CoV-2 Infections
- COVID-19 Pandemic
- COVID 19 Pandemic
- COVID-19 Pandemics
- Pandemic, COVID-19



# Keywords combination

## **Mouthwash**

- Mouthwash
- Mouth rinses
- Oral rinses



## **Viral load**

- Viral Load
- Viral Burden



## **Covid-19**

- Covid-19
- Coronavirus disease 2019



# Keywords

Mouthwash OR Mouth rinses OR Oral rinses  
AND Viral Load OR Viral Burden AND  
Covid-19 OR Coronavirus disease 2019



# Keywords

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PubMed



### COVID-19 Information

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## PubMed Advanced Search Builder



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Add terms to the query box

All Fields

OR

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Query box

((((((Mouthwash) OR (Mouth rinses)) OR (Oral rinses)) AND (Viral Load)) OR (Viral Burden)) AND (Covid-19)) OR (Coronavirus disease 2019)

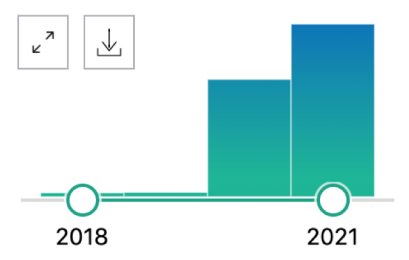
Search



MY NCBI FILTERS

584 results

RESULTS BY YEAR



Filters applied: Randomized Controlled Trial. Clear all

TEXT AVAILABILITY

Abstract

**Safety and Efficacy of the BNT162b2 mRNA Covid-19 Vaccine.**  
1 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, Gruber WC; C4591001 Clinical Trial Group.  
N Engl J Med. 2020 Dec 31;383(27):2603-2615. doi: 10.1056/NEJMoa2034577. Epub 2020 Dec 10.  
PMID: 33301246 **Free PMC article.** Clinical Trial.  
BACKGROUND: **Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)** infection and the resulting **coronavirus disease 2019 (Covid-19)** have afflicted tens of millions of people in ...



pubmed.ncbi.nlm.nih.gov/advanced/

#2 ... Search: ((((((Mouthwash) OR (Mouth rinses)) OR (Oral rinses)) AND (Viral Load)) OR (Viral Burden)) AND (Covid-19)) OR (Coronavirus disease 2019) Filters: Randomized Controlled Trial 584 04:43:33

(((("mouthwashes"[Pharmacological Action] OR "mouthwashes"[MeSH Terms] OR "mouthwashes"[All Fields] OR "mouthwash"[All Fields] OR "mouthwashing"[All Fields] OR "mouthwashings"[All Fields] OR ("mouthwashes"[Pharmacological Action] OR "mouthwashes"[MeSH Terms] OR "mouthwashes"[All Fields] OR ("mouth"[All Fields] AND "rinses"[All Fields]) OR "mouth rinses"[All Fields]) OR ("mouthwashes"[Pharmacological Action] OR "mouthwashes"[MeSH Terms] OR "mouthwashes"[All Fields] OR ("oral"[All Fields] AND "rinses"[All Fields]) OR "oral rinses"[All Fields])) AND ("viral load"[MeSH Terms] OR ("viral"[All Fields] AND "load"[All Fields]) OR "viral load"[All Fields]) OR ("viral load"[MeSH Terms] OR ("viral"[All Fields] AND "load"[All Fields]) OR "viral load"[All Fields] OR ("viral"[All Fields] AND "burden"[All Fields]) OR "viral burden"[All Fields])) AND ("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 ("covid 19"[MeSH Terms] OR "covid 19"[All Fields] OR "coronavirus disease 2019"[All Fields])) AND (randomizedcontrolledtrial[Filter])



Masuk Table search strategy



# Memilih database

- Menggunakan database yang besar
- Minimal 2 database
- Menyesuaikan dengan topik
- Pertimbangkan gray literature
- Lakukan pencarian handsearching



# Database

PubMed

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Library**

ProQuest  
CENTRAL



# Terima kasih