

## Appendix 2: Search strategies - Vitamin C for COVID-19: A living systematic review

L-OVE platform strategies The search strategies used by the L-OVE topic: '*Coronavirus (COVID-19)*' to automatically retrieve articles from Epistemonikos Database (see [special COVID-19 methods](#))

### [Vitamin C supplementation for Coronavirus infection](#)

The components below are combined by the system with the boolean operator AND

#### **Population component: Coronavirus**

This is the population component of the search strategy used by L-OVE platform to automatically retrieve potentially eligible articles from Epistemonikos Database (see [special COVID-19 methods](#))

coronavir\* OR coronavirus\* OR "corona virus" OR "virus corona" OR "corono virus" OR "virus corono" OR hcov\* OR "covid-19" OR covid19\* OR "covid 19" OR "2019-nCoV" OR cv19\* OR "cv-19" OR "cv 19" OR "n-cov" OR ncov\* OR "sars-cov-2" OR "sars-cov2" OR "SARS-Coronavirus-2" OR "SARS-Coronavirus2" OR (wuhan\* AND (virus OR viruses OR viral)) OR (covid\* AND (virus OR viruses OR viral)) OR "sars-cov" OR "sars cov" OR "sars-coronavirus" OR "severe acute respiratory syndrome" OR "mers-cov" OR "mers cov" OR "middle east respiratory syndrome" OR "middle-east respiratory syndrome" OR "covid-19-related" OR "SARS-CoV-2-related" OR "SARS-CoV2-related" OR "2019-nCoV-related" OR "cv-19-related" OR "n-cov-related"

#### **Intervention component: Vitamin C**

This is the intervention component of the strategy used by L-OVE platform to automatically retrieve potentially eligible articles from Epistemonikos Database

Relevant terms in L-OVE taxonomy	Search strategy
Vitamin C	"vitamin c" OR "vit c" OR "vitamin-c" OR "vitamins c" OR ascorb* OR "l-ascorbic"

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doi: 10.5867/medwave.2020.06.7978

## Single-block search strategy in L-OVE platform for the question: vitamin c for COVID-19

((coronavir\* OR coronavirus\* OR "corona virus" OR "virus corona" OR "corono virus" OR "virus corono" OR hcov\* OR "covid-19" OR covid19\* OR "covid 19" OR "2019-nCoV" OR cv19\* OR "cv-19" OR "cv 19" OR "n-cov" OR ncov\* OR "sars-cov-2" OR "sars-cov2" OR "SARS-Coronavirus-2" OR "SARS-Coronavirus2" OR (wuhan\* AND (virus OR viruses OR viral)) OR (covid\* AND (virus OR viruses OR viral)) OR "sars-cov" OR "sars cov" OR "sars-coronavirus" OR "severe acute respiratory syndrome" OR "mers-cov" OR "mers cov" OR "middle east respiratory syndrome" OR "middle-east respiratory syndrome" OR "covid-19-related" OR "SARS-CoV-2-related" OR "SARS-CoV2-related" OR "2019-nCoV-related" OR "cv-19-related" OR "n-cov-related")) AND ("vitamin c" OR "vit c" OR "vitamin-c" OR "vitamins c" OR ascorb\* OR "l-ascorbic")

## Additional searches in electronic databases

### Search strategy for Pubmed/MEDLINE

Search date: 29.04.2020

#1coronavir\*

#2coronavirus\*

#3"corona virus"

#4"virus corona"

#5"corono virus"

#6"virus corono"

#7hcov\*

#8"covid-19"

#9covid19\*

#10" covid 19"

#11"2019-nCoV"

#12cv19\*

#13"cv-19"

#14"cv 19"

#15"n-cov"

#16ncov\*

#17"sars-cov-2"

#18wuhan\* AND (virus OR viruses OR viral)

#19covid\* AND (virus OR viruses OR viral)

#20"sars-cov"

#21"sars cov"

#22"sars-coronavirus"

#23"severe acute respiratory syndrome"

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#24"mers-cov"

#25"mers cov"

#26"middle east respiratory syndrome"

#27"middle-east respiratory syndrome"

#28#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27

#29"vitamin c"

#30"vit c"

#31"vitamin-c"

#32"vitamins c"

#33ascorb\*

#34"l-ascorbic"

#35#29 OR #30 OR #31 OR #32 OR #33 OR #34

#36#28 AND #35

### Search strategy for EMBASE (Elsevier)

Search date: 29.04.2020

#1. coronavirus\*

#2. coronavir\*

#3. 'corona virus'

#4. 'virus corona'

#5. 'corono virus'

#6. 'virus corono'

#7. hcov\*

#8. 'covid-19'

#9. covid19\*

#10. 'covid 19'

#11. '2019-ncov'

#12. cv19\*

#13. 'cv-19'

#14. 'cv 19'

#15. 'n-cov'

#16. ncov\*

#17. 'sars-cov-2'

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#18. wuhan\* AND (virus OR viruses OR viral)

#19. covid\* AND (virus OR viruses OR viral)

#20. 'sars-cov'

#21. 'sars cov'

#22. 'sars-coronavirus'

#23. 'severe acute respiratory syndrome'

#24. 'mers-cov'

#25. 'mers cov'

#26. 'middle east respiratory syndrome'

#27. 'middle-east respiratory syndrome'

#28. #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27

#29. "vitamin c"

#30. "vit c"

#31. "vitamin-c"

#32. "vitamins c"

#33. ascorb\*

#34. "l-ascorbic"

#35. #29 OR #30 OR #31 OR #32 OR #33 OR #34

#36. #28 AND #35

### Search strategy for CENTRAL (The Cochrane Library Issue 1, 2019)

Search date:29.04.2020

#1coronavir\*:ti,ab,kw

#2coronavirus\*:ti,ab,kw

#3"corona virus":ti,ab,kw

#4"virus corona":ti,ab,kw

#5"corono virus":ti,ab,kw

#6"virus corono":ti,ab,kw

#7hcov\*:ti,ab,kw

#8" covid-19":ti,ab,kw

#9covid19\*:ti,ab,kw

#10" covid 19":ti,ab,kw

#11"2019-nCoV":ti,ab,kw

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#12cv19\* :ti,ab,kw

#13"cv-19":ti,ab,kw

#14" cv 19":ti,ab,kw

#15"n-cov":ti,ab,kw

#16ncov\*:ti,ab,kw

#17"sars-cov-2"

#18(wuhan\* AND (virus OR viruses OR viral):ti,ab,kw

#19covid\* AND (virus OR viruses OR viral):ti,ab,kw

#20"sars-cov":ti,ab,kw

#21"sars cov" :ti,ab,kw

#22"sars-coronavirus":ti,ab,kw

#23"severe acute respiratory syndrome":ti,ab,kw

#24"mers-cov":ti,ab,kw

#25"mers cov":ti,ab,kw

#26"middle east respiratory syndrome":ti,ab,kw

#27"middle-east respiratory syndrome":ti,ab,kw

#28#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27

#29"vitamin c":ti,ab,kw

#30"vit c" :ti,ab,kw

#31"vitamin-c" :ti,ab,kw

#32"vitamins c" :ti,ab,kw

#33ascorb\* :ti,ab,kw

#34"l-ascorbic":ti,ab,kw

#35#29 OR #30 OR #31 OR #32 OR #33 OR #34

#36#28 AND #35

**Databases and registries automatically screened by Epistemonikos Database for COVID-19 ('COVID-19 repository')**

Updated daily or more frequent than daily

### PubMed

<https://www.ncbi.nlm.nih.gov/pubmed/>

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coronavir\* OR coronavirus\* OR "corona virus" OR "virus corona" OR "corono virus" OR "virus corono" OR hcov\* OR "covid-19" OR covid19\* OR "covid 19" OR 2019-nCoV OR cv19\* OR "cv-19" OR "cv 19" OR "n-cov" OR ncov\* OR "sars-cov-2" OR (wuhan\* AND (virus OR viruses OR viral OR coronav\*)) OR (covid\* AND (virus OR viruses OR viral)) OR "sars-cov" OR "sars cov" OR "sars-coronavirus" OR "severe acute respiratory syndrome" OR "mers-cov" OR "mers cov" OR "middle east respiratory syndrome" OR "middle-east respiratory syndrome"

### COVID-19 SARS-CoV-2 preprints from medRxiv and bioRxiv

<https://connect.medrxiv.org/relate/content/181>\*

\* All the articles in this list are uploaded

**Clinicaltrials.gov** <https://clinicaltrials.gov/>

"SARS-CoV-2" OR "Sars-CoV2" OR nCoV OR COVID OR Coronavirus OR Corona OR "covid-19" OR covid19 OR "covid 19" OR "2019-nCoV" OR cv19 OR "cv-19" OR "cv 19" OR "n-cov" OR coronavirus

### ISRCTN registry

<https://www.isrctn.com/>

coronavir\* OR coronavirus\* OR "corona virus" OR "virus corona" OR "corono virus" OR "virus corono" OR hcov\* OR "covid-19" OR covid19\* OR "covid 19" OR 2019-nCoV OR cv19\* OR "cv-19" OR "cv 19" OR "n-cov" OR ncov\* OR "sars-cov-2" OR (wuhan\* AND (virus OR viruses OR viral OR coronav\*)) OR (covid\* AND (virus OR viruses OR viral)) OR "sars-cov" OR "sars cov" OR "sars-coronavirus" OR "severe acute respiratory syndrome" OR "mers-cov" OR "mers cov" OR "middle east respiratory syndrome" OR "middle-east respiratory syndrome"

**Chinese Clinical Trial Registry** <http://www.chictr.org.cn/>

*Separate searches for the following terms:*

coronavirus; coronavirus; corona virus; virus corona; corono virus; virus corono; hcov; covid-19; covid19; covid 19; 2019-nCoV; cv19; cv-19; cv 19; n-cov; ncov; sars-cov-2; sars-cov2; SARS-Coronavirus-2; SARS-Coronavirus2

### Iranian Registry of Clinical Trials

<https://www.irct.ir/>

((coronavir\* OR coronavirus\* OR "corona virus" OR "virus corona" OR "corono virus" OR "virus corono" OR hcov\* OR "covid-19" OR covid19\* OR "covid 19" OR "2019-nCoV" OR cv19\* OR "cv-19" OR "cv 19" OR "n-cov" OR ncov\* OR "sars-cov-2" OR "sars-cov2" OR "SARS-Coronavirus-2" OR "SARS-Coronavirus2" OR (wuhan\* AND (virus OR viruses OR viral)) OR (covid\* AND (virus OR viruses OR viral)) OR "sars-cov" OR "sars cov" OR "sars-coronavirus" OR "severe acute respiratory syndrome" OR "mers-cov" OR "mers cov" OR "middle east respiratory syndrome" OR "middle-east respiratory syndrome" OR "covid-19-related" OR "SARS-CoV-2-related" OR "SARS-CoV2-related" OR "2019-nCoV-related" OR "cv-19-related" OR "n-cov-related")) AND ("vitamin c" OR "vit c" OR "vitamin-c" OR "vitamins c" OR ascorb\* OR "l-ascorbic")

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### Other databases and websites specialised in COVID-19 manually searched for this review

#### Google Scholar

<https://scholar.google.com/>

Search date: 29.04.2020 allintitle:"COVID-19"|COVID19|2019nCoV|"Corona Virus"|Coronavirus|"CoV 2"|CoV2|COVID|nCoV|SARS2|SARSCoV|"SARS-CoV" +vitamin c|ascorbic

**EU Clinical Trials Register: Clinical trials for covid-19** <https://www.clinicaltrialsregister.eu/ctr-search/search?query=covid-19>

Search date: 29.04.2020

covid-19 AND ("vitamin c" OR "vit c" OR "vitamin-c" OR "vitamins c" OR ascorb\* OR "l-ascorbic")

#### NIPH Clinical Trials Search (Japan)

<https://rctportal.niph.go.jp/en/>

Search date: 29.04.2020

*Separate searches for the following terms:*

coronavirus; coronovirus; corona virus; virus corona; corono virus; virus corono; hcov; covid-19; covid19; covid 19; 2019-nCoV; cv19; cv-19; cv 19; n-cov; ncov; sars-cov-2; sars-cov2; SARS-Coronavirus-2; SARS-Coronavirus2

#### Clinical Research Information System (Korea)

<https://cris.nih.go.kr/cris/en/>

Search date: 29.04.2020

*Separate searches for the following terms:*

coronavirus; coronovirus; corona virus; virus corona; corono virus; virus corono; hcov; covid-19; covid19; covid 19; 2019-nCoV; cv19; cv-19; cv 19; n-cov; ncov; sars-cov-2; sars-cov2; SARS-Coronavirus-2; SARS-Coronavirus2

#### ICTRP Search Portal

Search date: 10.04.2020 (resource was not available on April 29, 2020)

<http://apps.who.int/trialsearch>

"vitamin c" OR "vit c" OR "vitamin-c" OR "vitamins c" OR ascorb\* OR "l-ascorbic"

#### Cochrane COVID-19 Study Register

<https://covid-19.cochrane.org/>

Search date: 29.04.2020

"vitamin c" OR "vit c" OR "vitamin-c" OR "vitamins c" OR ascorb\* OR "l-ascorbic"

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### Resources scanned without using a search strategy

1. COVID-19: Global literature on coronavirus disease (<https://search.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/>)
2. NIHR: Innovation observatory: COVID-19 Updates (<http://www.io.nihr.ac.uk/covid-19-updates/>)
3. COVID-19: a living systematic map of the evidence ([http://epi.ioe.ac.uk/COVID19\\_MAP/covid\\_map\\_v8.html](http://epi.ioe.ac.uk/COVID19_MAP/covid_map_v8.html))
4. COVID-evidence website (<https://covid-evidence.org/database>)
5. Live map of COVID-19 evidence (<https://www.fhi.no/en/qk/systematic-reviews-hta/map/>)
6. LitCovid (<https://www.ncbi.nlm.nih.gov/research/coronavirus/>)
7. COVID-19 Special Collection (JBI) (<https://jbi.global/ebp/covid-19>)
8. Coronavirus disease (COVID-2019) R&D (<https://www.who.int/blueprint/priority-diseases/key-action/novel-coronavirus/en/>)
9. Coronavirus (COVID-19) Resource Hub (<https://pharmacist.therapeuticresearch.com/Content/Topic/all/covid-19-Resource-Hub>)
10. Coronavirus Research Repository (Elsevier Connect) (<https://www.cdc.gov/coronavirus/2019-ncov/publications.html>)
11. Coronavirus (COVID-19) (CDC) (<https://www.cdc.gov/coronavirus/2019-ncov/publications.html>)
12. Orientación sobre la COVID-19 y últimas investigaciones en las Américas (PAHO) (<https://covid19-evidence.paho.org/>)
13. COVID-19. Información confiable para la toma de decisiones (<https://www.iecs.org.ar/covid/>)
14. New England Journal of Medicine: Coronavirus (Covid-19) (<https://www.nejm.org/coronavirus>)
15. BMJ: Coronavirus (covid-19): Latest news and resources (<http://bmj.com/coronavirus>)
16. Lancet: COVID-19 Resource Centre (<https://www.thelancet.com/coronavirus>)
17. JAMA: Coronavirus Disease 2019 (COVID-19) (<https://jamanetwork.com/journals/jama/pages/coronavirus-alert>)
18. Cochrane Resources on Coronavirus (COVID-19) (<https://www.cochranelibrary.com/covid-19>)
19. Oxford COVID-19 Evidence Service (<https://www.cebm.net/covid-19/>)
20. NICE Rapid Guideline and Summaries on COVID-19 (<https://www.nice.org.uk/covid-19>)
21. Coronavirus disease (COVID-19) - European Medicines Agency (EMA) (<https://www.ema.europa.eu/en/human-regulatory/overview/public-health-threats/coronavirus-disease-covid-19>)
22. Coronavirus Disease 2019 (COVID-19) - U.S. Food & Drug Administration (FDA) (<https://www.fda.gov/emergency-preparedness-and-response/counterterrorism-and-emerging-threats/coronavirus-disease-2019-covid-19>)