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 "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-CoV-2" OR "SARS-CoV2" 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 "middle east related" OR "SARS-CoV-2 related" OR "SARS-CoV-2-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

<table>
<thead>
<tr>
<th>Relevant terms in L·OVE taxonomy</th>
<th>Search strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vitamin C</td>
<td>&quot;vitamin c&quot; OR 'vit c' OR &quot;vitamin-c&quot; OR &quot;vitamins c&quot; OR ascorb* OR &quot;l-ascorbic&quot;</td>
</tr>
</tbody>
</table>
Vitamin C for COVID-19: A living systematic review
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 coronovirus* 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 ncv* OR "sars-cov-2" OR "sars-cov2" OR "SARS-Coronavirus-2" OR "SARS-Coronavirus2" OR (wuhan* AND (vitamin OR vitamins OR viral))) OR (covid* AND (vitamin OR vitamins 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 "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*
#2coronovirus*
#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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doi: 10.5867/medwave.2020.06.7978

#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
#2coronovirus*: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
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doi: 10.5867/medwave.2020.06.7978

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; 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

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

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-CoV2; SARS-CoV

Clinical Research Information System (Korea)
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-CoV2; SARS-CoV

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"
Resources scanned without using a search strategy

2. NIHR: Innovation observatory: COVID-19 Updates (http://www.io.nihr.ac.uk/covid-19-updates/)
7. COVID-19 Special Collection (JBI) (https://jbi.global/ebp/covid-19)