### SEARCH STRATEGY:

Cochrane Library search:  
  
ID    Search    Hits  
#1    (((chest\* OR respiratory) near/3 ("physical therap\*" OR physiotherap\* OR "physio-therap\*")) OR "breathing exercise"):ti,ab,kw (Word variations have been searched)    2656  
#2    MeSH descriptor: [Physical Therapy Modalities] explode all trees    24811  
#3    MeSH descriptor: [Respiration] explode all trees    6561  
#4    #2 and #3    372  
#5    MeSH descriptor: [Breathing Exercises] explode all trees    841  
#6    #1 or #4 or #5    2916  
#7    (("air way\*" OR airway\* OR lung\*) near/3 clear\*):ti,ab,kw (Word variations have been searched)    1004  
#8    MeSH descriptor: [Mucociliary Clearance] explode all trees    228  
#9    #7 or #8    1174  
#10    #6 or #9    3947  
#11    (((mechanical\* OR artificial\* OR control\*) near/3 (respirat\* OR ventilat\*)) OR "high frequency ventilation" OR "high frequency jet ventilation" OR "interactive ventilatory support" OR " intermittent mandatory ventilation" OR " intermittent positive pressure ventilation" OR "inverse ratio ventilation" OR " jet ventilation" OR " liquid ventilation" OR "manual ventilation" OR "negative pressure ventilation" OR "noninvasive ventilation" OR "non-invasive ventilation" OR "non invasive ventilation" OR NIV OR "one lung ventilation" OR "positive end expiratory pressure" OR PEEP OR " pressure support ventilation" OR "therapeutic hyperventilation" OR " ventilator weaning"):ti,ab,kw (Word variations have been searched)    26681  
#12    MeSH descriptor: [Respiration, Artificial] explode all trees    6074  
#13    #11 or #12    27721  
#14    (("veno-venous" or VV) near/3 (ECMO OR "extra-corporeal oxygenation" OR "extracorporeal oxygenation" OR "extracorporeal membrane oxygenation" OR "extra-corporeal membrane oxygenation")):ti,ab,kw (Word variations have been searched)    20  
#15    MeSH descriptor: [Extracorporeal Membrane Oxygenation] explode all trees    168  
#16    ("veno-venous" or VV):ti,ab,kw (Word variations have been searched)    846  
#17    #15 and #16    2  
#18    #14 or #17    21  
#19    ("2019-nCoV" OR 2019nCoV\* OR "19-nCoV" OR 19nCoV\* OR nCoV2019\* OR "nCoV-2019" OR nCoV19\* OR "nCoV-19" OR "COVID-19" OR COVID19\* OR "COVID-2019" OR COVID2019\* OR "HCoV-19" OR HCoV19\* OR "HCoV-2019" OR HCoV2019\* OR "2019 novel" OR Ncov\* OR "n-cov" OR "SARS-CoV-2" OR "SARSCoV-2" OR "SARSCoV2" OR "SARS-CoV2" OR SARSCov19\* OR "SARS-Cov19" OR "SARSCov-19" OR "SARS-Cov-19" OR SARSCov2019\* OR "SARS-Cov2019" OR "SARSCov-2019" OR "SARS-Cov-2019" OR SARS2\* OR "SARS-2" OR SARScoronavirus2\* OR "SARS-coronavirus-2" OR "SARScoronavirus 2" OR "SARS coronavirus2" OR SARScoronovirus2\* OR "SARS-coronovirus-2" OR "SARScoronovirus 2" OR "SARS coronovirus2" OR covid\* OR corona OR corono):ti,ab,kw (Word variations have been searched)    1292  
#20    (coronavirus\* OR coronovirus\* OR coronavirinae\* OR CoV):ti,ab,kw (Word variations have been searched)    755  
#21    (respiratory\* and (symptom\* OR disease\* OR illness\* OR condition\*) and (Wuhan\* OR Hubei\* OR China\* OR Chinese\* OR Huanan\*)):ti,ab,kw (Word variations have been searched)    950  
#22    (("seafood market" OR "food market") near/10 (Wuhan\* OR Hubei\* OR China\* OR Chinese\* OR Huanan\*)):ti,ab,kw (Word variations have been searched)    3  
#23    (pneumonia\* near/3 (Wuhan\* OR Hubei\* OR China\* OR Chinese\* OR Huanan\*)):ti,ab,kw (Word variations have been searched)    24  
#24    ((outbreak\* OR wildlife\* OR pandemic\* OR epidemic\*) near/1 (Wuhan\* OR Hubei\* OR China\* OR Chinese\* OR Huanan\*)):ti,ab,kw (Word variations have been searched)    3  
#25    ("severe acute respiratory syndrome" OR "middle east respiratory syndrome" OR "middle eastern respiratory syndrome"):ti,ab,kw (Word variations have been searched)    306  
#26    ((corona\* OR corono\*) near/1 (virus\* OR viral\* OR virinae\*)):ti,ab,kw (Word variations have been searched)    48  
#27    MeSH descriptor: [Coronavirus] explode all trees    27  
#28    MeSH descriptor: [Coronavirus Infections] explode all trees    259  
#29    #19 or #20 or #21 or #22 or #23 or #24 or #25 or #26 or #27 or #28    2358  
#30    #18 or #29    2377  
#31    #10 and #18 and #30    1

Database: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Daily and Versions(R) <1946 to July 22, 2020>

Search Strategy:

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1     ("2019-nCoV\*" or 2019nCoV\* or "19-nCoV\*" or 19nCoV\* or nCoV2019\* or "nCoV-2019\*" or nCoV19\* or "nCoV-19\*" or "COVID-19\*" or COVID19\* or "COVID-2019\*" or COVID2019\* or "HCoV-19\*" or HCoV19\* or "HCoV-2019\*" or HCoV2019\* or "2019 novel\*" or Ncov\* or "n-cov" or "SARS-CoV-2\*" or "SARSCoV-2\*" or "SARSCoV2\*" or "SARS-CoV2\*" or SARSCov19\* or "SARS-Cov19\*" or "SARSCov-19\*" or "SARS-Cov-19\*" or SARSCov2019\* or "SARS-Cov2019\*" or "SARSCov-2019\*" or "SARS-Cov-2019\*" or SARS2\* or "SARS-2\*" or SARScoronavirus2\* or "SARS-coronavirus-2\*" or "SARScoronavirus 2\*" or "SARS coronavirus2\*" or SARScoronovirus2\* or "SARS-coronovirus-2\*" or "SARScoronovirus 2\*" or "SARS coronovirus2\*" or covid\* or corona or corono).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (42396)

2     (coronavirus\* or coronovirus\* or coronavirinae\* or CoV).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (39700)

3     (("seafood market\*" or "food market\*") adj10 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (74)

4     (respiratory\* adj2 (symptom\* or disease\* or illness\* or condition\*) adj5 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (269)

5     (pneumonia\* adj3 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (431)

6     ((outbreak\* or wildlife\* or pandemic\* or epidemic\*) adj1 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (120)

7     ("severe acute respiratory syndr\*" or "middle east respiratory syndr\*" or "middle eastern respiratory syndr\*").mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (21805)

8     ((corona\* or corono\*) adj1 (virus\* or viral\* or virinae\*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (977)

9     exp Coronavirus Infections/ (22847)

10     exp Coronavirus/ (22584)

11     1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 (64333)

12     (((chest\* or respiratory) adj3 ("physical therap\*" or physiotherap\* or "physio-therap\*")) or "breathing exercise\*").mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (5510)

13     exp Physical Therapy Modalities/ (152862)

14     exp Respiration/ (115802)

15     13 and 14 (2017)

16     exp Breathing Exercises/ (3586)

17     12 or 15 or 16 (6922)

18     (("air way\*" or airway\* or lung\*) adj3 clear\*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (5320)

19     exp Mucociliary Clearance/ (2510)

20     18 or 19 (7462)

21     17 or 20 (14150)

22     (((mechanical\* or artificial\* or control\*) adj3 (respirat\* or ventilat\*)) or "high frequency ventilat\*" or "high frequency jet ventilat\*" or "interactive ventilatory support\*" or " intermittent mandatory ventilat\*" or " intermittent positive pressure ventilat\*" or "inverse ratio ventilat\*" or " jet ventilat\*" or " liquid ventilat\*" or "manual ventilat\*" or "negative pressure ventilat\*" or "noninvasive ventilat\*" or "non-invasive ventilat\*" or "non invasive ventilat\* or NIV" or "one lung ventilat\*" or "positive end expiratory pressure" or PEEP or " pressure support ventilat\*" or "therapeutic hyperventilat\*" or " ventilator wean\*").mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (116930)

23     exp Respiration, Artificial/ (76868)

24     22 or 23 (130339)

25     (("veno-venous" or VV) adj3 (ECMO or "extra-corporeal oxygenat\*" or "extracorporeal oxygenat\*" or "extracorporeal membrane oxygenat\*" or "extra-corporeal membrane oxygenat\*")).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (962)

26     exp Extracorporeal Membrane Oxygenation/ (10506)

27     ("veno-venous" or VV).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (6813)

28     26 and 27 (810)

29     25 or 28 (1107)

30     11 or 29 (65406)

31     21 and 24 and 30 (12)

EMBASE Search:

|  |  |  |  |
| --- | --- | --- | --- |
| 3 | AMED, BNI, CINAHL, EMBASE, EMCARE, HMIC, Medline, PsycINFO, PubMed | (((((airway\* OR "air way\*") ADJ clear\*) OR (chest\* ADJ (physiotherap\* OR "physical therap\*"))) AND (mechanical\* ADJ ventilat\*)) AND (covid\* OR corona\* OR ("veno-venous" ADJ (ECMO OR "extracorporeal membrane oxygenat\*")))).ti,ab | 24 |
| 17 | EMBASE | (((chest\* OR respiratory) ADJ3 ("physical therap\*" OR physiotherap\* OR "physio-therap\*")) OR "breathing exercise\*").ti,ab | 4352 |
| 18 | EMBASE | exp "BREATHING EXERCISE"/ | 7363 |
| 19 | EMBASE | (17 OR 18) | 9181 |
| 20 | EMBASE | exp "LUNG CLEARANCE"/ | 5919 |
| 21 | EMBASE | (("air way\*" OR airway\* OR lung\*) ADJ3 clear\*).ti,ab | 9321 |
| 22 | EMBASE | (20 OR 21) | 12019 |
| 23 | EMBASE | (19 OR 22) | 20638 |
| 24 | EMBASE | (((mechanical\* OR artificial\* OR control\*) ADJ3 (respirat\* OR ventilat\*)) OR "high frequency ventilat\*" OR "high frequency jet ventilat\*" OR "interactive ventilatory support\*" OR " intermittent mandatory ventilat\*" OR " intermittent positive pressure ventilat\*" OR "inverse ratio ventilat\*" OR " jet ventilat\*" OR " liquid ventilat\*" OR "manual ventilat\*" OR "negative pressure ventilat\*" OR "noninvasive ventilat\*" OR "non-invasive ventilat\*" OR "non invasive ventilat\*" OR NIV OR "one lung ventilat\*" OR "positive end expiratory pressure" OR PEEP OR " pressure support ventilat\*" OR "therapeutic hyperventilat\*" OR " ventilator wean\*").ti,ab | 128272 |
| 25 | EMBASE | exp "ARTIFICIAL VENTILATION"/ | 203266 |
| 26 | EMBASE | (24 OR 25) | 239307 |
| 27 | EMBASE | (("veno-venous" OR VV) ADJ3 (ECMO OR "extra-corporeal oxygenat\*" OR "extracorporeal oxygenat\*" OR "extracorporeal membrane oxygenat\*" OR "extra-corporeal membrane oxygenat\*")).ti,ab | 2183 |
| 28 | EMBASE | exp "EXTRACORPOREAL OXYGENATION"/ | 24029 |
| 29 | EMBASE | ("veno-venous" OR VV).ti,ab | 10392 |
| 30 | EMBASE | (28 AND 29) | 1949 |
| 31 | EMBASE | (27 OR 30) | 2445 |
| 32 | EMBASE | ("2019-nCoV\*" OR 2019nCoV\* OR "19-nCoV\*" OR 19nCoV\* OR nCoV2019\* OR "nCoV-2019\*" OR nCoV19\* OR "nCoV-19\*" OR "COVID-19\*" OR COVID19\* OR "COVID-2019\*" OR COVID2019\* OR "HCoV-19\*" OR HCoV19\* OR "HCoV-2019\*" OR HCoV2019\* OR "2019 novel\*" OR Ncov\* OR "n-cov" OR "SARS-CoV-2\*" OR "SARSCoV-2\*" OR "SARSCoV2\*" OR "SARS-CoV2\*" OR SARSCov19\* OR "SARS-Cov19\*" OR "SARSCov-19\*" OR "SARS-Cov-19\*" OR SARSCov2019\* OR "SARS-Cov2019\*" OR "SARSCov-2019\*" OR "SARS-Cov-2019\*" OR SARS2\* OR "SARS-2\*" OR SARScoronavirus2\* OR "SARS-coronavirus-2\*" OR "SARScoronavirus 2\*" OR "SARS coronavirus2\*" OR SARScoronovirus2\* OR "SARS-coronovirus-2\*" OR "SARScoronovirus 2\*" OR "SARS coronovirus2\*" OR covid\* OR corona OR corono).ti,ab | 41132 |
| 33 | EMBASE | (coronavirus\* OR coronovirus\* OR coronavirinae\* OR CoV).ti,ab | 29491 |
| 34 | EMBASE | ((respiratory\* ADJ2 (symptom\* OR disease\* OR illness\* OR condition\*)) ADJ5 (Wuhan\* OR Hubei\* OR China\* OR Chinese\* OR Huanan\*)).ti,ab | 331 |
| 35 | EMBASE | (("seafood market\*" OR "food market\*") ADJ10 (Wuhan\* OR Hubei\* OR China\* OR Chinese\* OR Huanan\*)).ti,ab | 72 |
| 36 | EMBASE | (pneumonia\* ADJ3 (Wuhan\* OR Hubei\* OR China\* OR Chinese\* OR Huanan\*)).ti,ab | 475 |
| 37 | EMBASE | ((outbreak\* OR wildlife\* OR pandemic\* OR epidemic\*) ADJ1 (Wuhan\* OR Hubei\* OR China\* OR Chinese\* OR Huanan\*)).ti,ab | 122 |
| 38 | EMBASE | ("severe acute respiratory syndr\*" OR "middle east respiratory syndr\*" OR "middle eastern respiratory syndr\*").ti,ab | 9747 |
| 39 | EMBASE | ((corona\* OR corono\*) ADJ1 (virus\* OR viral\* OR virinae\*)).ti,ab | 971 |
| 40 | EMBASE | exp \*CORONAVIRINAE/ | 8555 |
| 41 | EMBASE | exp "CORONAVIRUS INFECTION"/ | 16494 |
| 42 | EMBASE | (32 OR 33 OR 34 OR 35 OR 36 OR 37 OR 38 OR 39 OR 40 OR 41) | 66724 |
| 43 | EMBASE | (31 OR 42) | 69137 |
| 44 | EMBASE | (23 AND 26 AND 43) | 42 |
| 3 | AMED, BNI, CINAHL, EMBASE, EMCARE, HMIC, Medline, PsycINFO, PubMed | (((((airway\* OR "air way\*") ADJ clear\*) OR (chest\* ADJ (physiotherap\* OR "physical therap\*"))) AND (mechanical\* ADJ ventilat\*)) AND (covid\* OR corona\* OR ("veno-venous" ADJ (ECMO OR "extracorporeal membrane oxygenat\*")))).ti,ab | 24 |
| 17 | EMBASE | (((chest\* OR respiratory) ADJ3 ("physical therap\*" OR physiotherap\* OR "physio-therap\*")) OR "breathing exercise\*").ti,ab | 4352 |
| 18 | EMBASE | exp "BREATHING EXERCISE"/ | 7363 |
| 19 | EMBASE | (17 OR 18) | 9181 |
| 20 | EMBASE | exp "LUNG CLEARANCE"/ | 5919 |
| 21 | EMBASE | (("air way\*" OR airway\* OR lung\*) ADJ3 clear\*).ti,ab | 9321 |
| 22 | EMBASE | (20 OR 21) | 12019 |
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| 25 | EMBASE | exp "ARTIFICIAL VENTILATION"/ | 203266 |
| 26 | EMBASE | (24 OR 25) | 239307 |
| 27 | EMBASE | (("veno-venous" OR VV) ADJ3 (ECMO OR "extra-corporeal oxygenat\*" OR "extracorporeal oxygenat\*" OR "extracorporeal membrane oxygenat\*" OR "extra-corporeal membrane oxygenat\*")).ti,ab | 2183 |
| 28 | EMBASE | exp "EXTRACORPOREAL OXYGENATION"/ | 24029 |
| 29 | EMBASE | ("veno-venous" OR VV).ti,ab | 10392 |
| 30 | EMBASE | (28 AND 29) | 1949 |
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| 33 | EMBASE | (coronavirus\* OR coronovirus\* OR coronavirinae\* OR CoV).ti,ab | 29491 |
| 34 | EMBASE | ((respiratory\* ADJ2 (symptom\* OR disease\* OR illness\* OR condition\*)) ADJ5 (Wuhan\* OR Hubei\* OR China\* OR Chinese\* OR Huanan\*)).ti,ab | 331 |
| 35 | EMBASE | (("seafood market\*" OR "food market\*") ADJ10 (Wuhan\* OR Hubei\* OR China\* OR Chinese\* OR Huanan\*)).ti,ab | 72 |
| 36 | EMBASE | (pneumonia\* ADJ3 (Wuhan\* OR Hubei\* OR China\* OR Chinese\* OR Huanan\*)).ti,ab | 475 |
| 37 | EMBASE | ((outbreak\* OR wildlife\* OR pandemic\* OR epidemic\*) ADJ1 (Wuhan\* OR Hubei\* OR China\* OR Chinese\* OR Huanan\*)).ti,ab | 122 |
| 38 | EMBASE | ("severe acute respiratory syndr\*" OR "middle east respiratory syndr\*" OR "middle eastern respiratory syndr\*").ti,ab | 9747 |
| 39 | EMBASE | ((corona\* OR corono\*) ADJ1 (virus\* OR viral\* OR virinae\*)).ti,ab | 971 |
| 40 | EMBASE | exp \*CORONAVIRINAE/ | 8555 |
| 41 | EMBASE | exp "CORONAVIRUS INFECTION"/ | 16494 |
| 42 | EMBASE | (32 OR 33 OR 34 OR 35 OR 36 OR 37 OR 38 OR 39 OR 40 OR 41) | 66724 |
| 43 | EMBASE | (31 OR 42) | 69137 |
| 44 | EMBASE | (23 AND 26 AND 43) | 42 |

Pedro database at <https://www.pedro.org.au/>:

covid chest physiotherap\*

coronavirus chest physiotherap\*

corona chest physiotherap\*

MedRxiv pre-publication database at <https://www.medrxiv.org/search>:

title "covid corona coronavirus" (match any words) and abstract or title "breathing exercise" (match all words)

abstract or title "airway clearance" (match all words)

Google

<https://www.google.com/search?q=airway+clearance+mechincal+ventilation+covid&rlz=1C1CHBF_en-gbGB778GB778&oq=airway+clearance+mechincal+ventilation+covid&aqs=chrome..69i57j33l2.6727j0j8&sourceid=chrome&ie=UTF-8>