

Search Methods

Document compiled by	Steve McDonald, Senior Information Specialist
Version and Date	Version 3, 1 July 2021
Main changes from version 1	<ol style="list-style-type: none"> Following sites 1) COVID-19 Evidence Reviews, 2) Oxford CEBM and 3) Canadian Agency for Drugs and Technologies in Health are no longer checked daily but are searched in response to specific PICOs. COVID-NMA Initiative checked weekly rather than daily (site is updated every Friday). PubMed alerts: 1) replaced NLM supplementary terms for coronavirus with COVID-19[Mesh Terms]. 2) Removed Coronavirus[Mesh Terms] and Coronavirus Infections[Mesh terms] since records retrieved by these terms are retrieved by coronavirus*, plus records relevant to COVID-19 are now retrieved with the new MeSH term. 3) Excluded protocols for reviews and meta-analyses from PubMed alerts, in addition to trials. 4) Respiratory support and Pregnancy & newborn PubMed alerts changed from daily to weekly. Added two new LSR (macrolides and cell-based therapies)
Main changes from version 2	<ol style="list-style-type: none"> PubMed alerts 1) added SARS-CoV-2[MeshTerms] to all search strategies. 2) Removed 2020:3000[DP], coronavirus* and coronavirinae* from all search strategies. 3) Revised Respiratory support and Pregnancy and newborn care search strings to retrieve systematic reviews and trials only (not observational studies). 4) Added tocilizumab, baricitinib, sarilumab, casirivimab, imdevimab and REGEN-COV to the Pregnancy and newborn care search. 5) Aerosol-generating procedures search no longer active. 6) Patient preferences and values search no longer active. 7) Separated RCT and SR alerts, and amended search to retrieve covid-related terms in the title only. Sources searched 1) added PubMed daily alert to Table 2. 2) removed CDC Register from search for new PICOs in Table 4, and added Europe PMC and NIH COVID-19 Portfolio. 3) CEBM removed from weekly check. 4) Research Square and WHO COVID-19 Database removed from daily check in Table 2. 5) Added Europe PMC to sources search on a weekly basis in Table 2.

1. Introduction

This document outlines our overall approach to evidence surveillance and provides details of the routine sources we consult and the searches we run on a daily or weekly basis to identify

evidence relevant to the scope of the guideline. (Other searches, for example to inform discussion of recommendations by the guideline panels, are run as and when needed, but are not documented here.)

This version of the document reflects the transition of the guideline to sustain mode from July 2021.

The aim of the guideline is to provide recommendations on the management and care of people with suspected or confirmed COVID-19. With the exception of chemoprophylaxis for the prevention of infection in people exposed to COVID-19 and the prevention of infection to health professionals using respiratory support interventions, the guideline does not include other interventions used in the prevention of COVID-19 infection or transmission.

The main sections of the guideline cover disease-modifying treatments, chemoprophylaxis, respiratory support, venous thromboembolism prophylaxis, therapies for select pre-existing conditions, pregnancy and perinatal care, and child and adolescent care.

As the guideline has evolved over the course of the pandemic, the type and sources of evidence used to inform recommendations have become more focused. For disease-modifying treatments and chemoprophylaxis, our primary interest is in randomised trials. For the remaining sections, in the absence of randomised trials, we consider non-randomised or observational studies, or high-quality systematic reviews or other evidence synthesis, especially living reviews.

In accordance with our [policy](#), the guideline includes evidence from both published studies and studies that are only available as preprints.

Table 1 summarises the sources we search (and frequency) relevant to the various sections of the guideline, and how the retrieved citations are screened for inclusion. Manually scanned citations are looked at by one person (SM). All new studies, including publications of studies previously published as preprints, and any updates to living systematic reviews and other living syntheses, are then notified to the evidence review team for consideration. Citations that are imported into Covidence are screened by members of the evidence review team.

Table 1: Search methods summary

Topic and approach	Source	Frequency
COVID-19 randomised trials ¹ In-scope of guideline recommendations	PubMed alert medRxiv	Daily* Manually scanned
	COVID-NMA Initiative Europe PMC (preprints)	Weekly Manually scanned
COVID-19 systematic reviews In-scope of guideline recommendations	PubMed alert Cochrane (via Slack channel)	Daily* Manually scanned
COVID-19 LSRs In-scope of guideline recommendations	PubMed alert	Daily* Manually scanned

Respiratory support interventions C19 + SRs, RCTs	PubMed alert	Weekly → Covidence
Pregnancy and newborn care C19 + SRs, RCTs	PubMed alert	Weekly → Covidence
PIMS-TS C19 + SRs, RCTs, NSRIs, observational studies	PubMed alert	Weekly → Covidence

¹ further details in Table 2 * Monday through Friday

2. Surveillance activities

2.1 Sites checked daily or weekly

The first component of our evidence surveillance activities comprises the daily (Monday through Friday) or weekly checking of several resources and sites for relevant primary studies and reviews (Table 2). The aim is to identify new reports of randomised trials as soon as they are published to allow the evidence review team maximum time to prepare new or updated evidence profiles for consideration by the guideline panels. To safeguard against missing potential studies, we cross-check with the [COVID-NMA Initiative](#) site, which undertakes extensive searches to identify all COVID-19-related randomised trials, and provides weekly updates of the trials identified.

Table 2: Sites checked daily or weekly

Coverage	Sources
COVID-19 primary studies	PubMed (pubmed.ncbi.nlm.nih.gov) → Daily alerts for randomised trials and systematic reviews; weekly alerts for respiratory support, pregnancy and newborn care, and PIMS-TS.
	medRxiv preprint server (medrxiv.org) → manual scan of all papers posted in the previous 24 hours.
	Europe PMC (europepmc.org) Includes preprints from medRxiv, Research Square, preprints.org and SSRN, among others. → Weekly search for preprint trials added in the previous week, sorted by Date received.
	COVID-NMA initiative (covid-nma.org) Identifies randomised trials from daily screening of searches of the L.OVE platform and the Cochrane COVID-19 Study register platform. Provides study characteristics, risk of bias assessments and forest plots. → Check the site's weekly update every Monday

Other sources	NSW Health COVID-19 Critical Intelligence Unit Daily Evidence Digest
Social media	Members of the evidence review team monitor Twitter for breaking news of new studies.

2.2 Living systematic reviews (LSRs)

The vast majority of recommendations in the guidelines are now fully or partially covered by living systematic reviews (Table 3). Although it's unlikely these LSRs will be a source of trials that we are unaware of, they are useful for comparing approaches in how evidence is assessed and interpreted. For the sections of the guideline that include non-randomised and observational studies, many of the recommendations are underpinned by living systematic reviews produced by external groups and organisations. We have developed a PubMed search that alerts us to new versions of these LSRs. New LSRs are added to the list as we become aware of them.

Table 3: LSRs

Topic	Group/author	Source	PMID / other ID
All treatments	COVID-NMA Initiative	Cochrane	CD013770
All prevention and treatment	COVID-NMA Initiative	Cochrane	CD013769
All drug treatments	Living NMA of drug treatments	BMJ	32732190 32917676
All drug treatments	A living WHO guideline on drugs for covid-19	BMJ Rapid Rec	32887691
All drug treatments	The LIVING Project	PLoS Med	32941437
Corticosteroids	WHO Rapid Evidence Appraisal for COVID-19 Therapies (REACT) Working Group	JAMA	32876694
Corticosteroids	WHO Corticosteroids for COVID-19 Living Guidance	WHO website	
Remdesivir	COVID-19 L·OVE Working Group COVID-19 L·OVE Working Group	medRxiv Medwave	CRD4202018338 4 (Prospero)
Remdesivir	Remdesivir for Adults With COVID-19	Annals Intern Med	33017170
Hydroxychloro- quine	International Collaborative Meta-Analysis	medRxiv	

Lopinavir-ritonavir	COVID-19 L·OVE Working Group	Medwave	32678815
Convalescent plasma	Cochrane review	Cochrane Library	CD013600
Tocilizumab	Tleyjeh	Clin Microbiol Infect	33161150
Macrolides (Azithromycin)	COVID-19 L·OVE Working Group	Medwave	33361755
Cell-based therapies	COVID-19 L·OVE Working Group	Medwave	33382060
Vitamin C	COVID-19 L·OVE Working Group	Medwave	32759894
Respiratory support	COVID-19 Systematic Urgent Review Group Effort	Annals Intern Med	33045175
VTE prophylaxis	Cochrane review	Cochrane Library	CD013739
ACEIs/ARBs	Mackey	Annals Intern Med	32956599
Pregnancy	PregCOV-19 Living Systematic Review Consortium	BMJ	32873575
Breastfeeding	Centeno-Tablante	Ann N Y Acad Sci	32860259
Rehabilitation	Cochrane Rehabilitation REH-COVER	Eur J Phys Rehabil Med	32869962
IPC HC workers	Chou	Annals	33226856
Long covid	Michelen	medRxiv	

PubMed daily alert to capture updates of the above LSRs

((((Eur J Phys Rehabil Med[TA] OR Medwave[TA] OR medRxiv[TA] OR Ann Intern Med[TA] OR PLoS Med[TA] OR BMJ[TA] OR Ann N Y Acad Sci[TA]) AND living[TI] AND (covid-19[TI] OR coronavirus[TI] OR SARS-CoV-2[TI])) OR (REACT[CN] AND covid-19[TI]) OR CD013600[PG] OR (Ann Intern Med[TA] AND "ventilation techniques"[TI]) OR CD013739[PG] OR (Ann Intern Med[TA] AND "angiotensin-converting enzyme inhibitors"[TI] AND Mackey K[AU]) OR (axfors[AU] AND hydroxychloroquine[TI]) OR PregCOV-19[CN] OR COVID-19 LOVE Working Group[CN] OR (Chou R[AU] AND Ann Intern Med[TA] AND coronavirus[TI]) OR CD013770[PG] OR CD013769[PG] OR (Tleyjeh[AU] AND tocilizumab[TI]) OR (Michelen[AU] AND long*[TI]))

2.3 Preprints

In addition to our daily surveillance search of medRxiv, each week we scan the records added to Europe PMC from several preprint servers.

Europe PMC	((TITLE:"covid") OR (TITLE:"covid-19") OR (TITLE:"coronavirus") OR (TITLE:"sars-cov-2") OR (TITLE:"sars")) AND (((TITLE:"trial") OR (ABSTRACT:"trial") OR (TITLE:"randomised") OR (ABSTRACT:"randomised") OR (TITLE:"randomized") OR (ABSTRACT:"randomized"))) NOT ((TITLE:"vaccine") OR (TITLE:"vaccines") OR (TITLE:"protocol") OR (TITLE:"meta-analysis")))) AND (SRC:PPR)
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2.4 COVID-19 core search strings for PubMed

Our PubMed searches are based on core search strings for COVID-19 and study design terms, which are then combined with topic-specific terms (see Section 3). These search strings were last amended on 1 July 2021.

COVID-19 terms Free-text terms all fields	(COVID-19[Mesh Terms] OR SARS-CoV-2[Mesh Terms] OR coronavirus* OR "corona virus" OR COVID OR COVID-19 OR COVID19 OR sars* OR "severe acute respiratory syndrome*")
Study design terms MeSH terms exploded; SRs, RCTs, observational studies, excluding trial and review protocols	<p>Systematic[SB] OR meta-analysis[Publication Type] OR Cochrane Database Syst Rev[SO] OR review[Title] OR "systematic review"[Text Word] OR "rapid review"[Text Word] OR "scoping review"[Text Word] OR "living review"[Text Word] OR "meta-analysis"[Text Word]</p> <p>Clinical Trial[Publication Type] OR trial[Title] OR randomized[Text Word] OR randomised[Text Word] OR randomly[Text Word] OR placebo[Text Word]</p> <p>Epidemiologic Studies[Mesh] OR Observational Study[Publication Type] OR Evaluation Study[Publication Type] OR Comparative Study[Publication Type] OR study[Title] OR analysis[Title] OR cohort[Text Word] OR "case series"[Text Word] OR "case reports"[Text Word] OR cross-section*[Text Word] OR "retrospective analysis"[Text Word] OR non-randomised[Text Word] OR non-randomized[Text Word] OR case-control*[Text Word] OR "controlled before*[Text Word] OR "control group"[Text Word] OR "prospective study"[Text Word] OR "retrospective study"[Text Word] OR "observational study"[Text Word] OR guideline*[Text Word]</p> <p>NOT (protocol[Title] AND (randomi*[Title] OR review[Title] OR meta-analysis[Title]))</p>

2.5 Other sites and sources

Each month we monitor Retraction Watch for COVID-19 retracted and suspicious papers <https://retractionwatch.com/retracted-coronavirus-covid-19-papers/>.

Whenever new PICOs are considered or developed for the guideline, we run tailored searches of the following sources.

Table 4: Sites checked for new PICOs

Type	Sources
All COVID-19 research	<p>WHO COVID-19 Database Global literature updated daily (Monday through Friday) from searches of bibliographic databases, handsearching, and the addition of other expert-referred scientific articles.</p> <p>Cochrane COVID-19 Study Register</p> <p>L-OVE COVID-19 Evidence</p> <p>PubMed</p> <p>NIH COVID-19 Portfolio</p> <p>Europe PMC</p>
Producers of summaries and LSRs	<p>COVID-19 Evidence Reviews Maintained by the VA Evidence Synthesis Program. Completed reviews are extracted from the following sources: LitCovid, COVID-19 Portfolio Search, WHO COVID database, CEBM Oxford COVID-19 Evidence Service, Cochrane, ECRI COVID-19 Center, National Collaborating Centre for Methods and Tools, McMaster University, INHATA member organizations.</p> <p>Organisations producing reviews and evidence summaries:</p> <p>Canadian Agency for Drugs and Technologies in Health</p> <p>Oxford Centre for Evidence-Based Medicine</p> <p>ECRI (US)</p> <p>COVID-19 Rapid Evidence Reviews (National Collaborating Centre for Methods and Tools, Canada)</p> <p>NICE (UK)</p> <p>University of Birmingham PregCOV-19LSR (UK)</p>

3. PubMed searches and alerts

PubMed alerts have been set up to cover the various sections of the guideline. These alerts combine the core search strings for COVID-19 and study designs (modified as indicated) with topic-specific terms. In the tables below, the different coloured sections are combined with the Boolean operator AND. Below each table is the search strategy as applied in PubMed.

3.1 All COVID-19 SRs and RCTs

Last amended 1 July 2021

Concept	Search terms
COVID-19 terms MeSH terms and title words	COVID-19[Mesh Terms] OR SARS-CoV-2[Mesh Terms] OR coronavirus*[Title] OR covid*[Title] OR sars*[Title])
Study design terms SRs not protocols or vaccine	(Systematic[SB] OR meta-analysis[Publication Type] OR Cochrane Database Syst Rev[SO] OR review[Title] OR "systematic review"[Text Word] OR "rapid review"[Text Word] OR "scoping review"[Text Word] OR "living review"[Text Word] OR "meta-analysis"[Text Word])) NOT (protocol[Title] OR vaccine[Title])
RCTs not protocols or vaccine	(Clinical Trial[Publication Type] OR trial[Title] OR randomi*[Text Word] OR OR randomly[Text Word] OR placebo[Text Word])) NOT (Systematic[SB] OR protocol[Title] OR vaccine[Title])

PubMed daily alert SRs (scanned only, not added to Covidence)

((COVID-19[Mesh Terms] OR SARS-CoV-2[Mesh Terms] OR coronavirus*[Title] OR covid*[Title] OR sars*[Title]) AND (Systematic[SB] OR meta-analysis[Publication Type] OR Cochrane Database Syst Rev[SO] OR review[Title] OR "systematic review"[Text Word] OR "rapid review"[Text Word] OR "scoping review"[Text Word] OR "living review"[Text Word] OR "meta-analysis"[Text Word])) NOT (protocol[Title] OR vaccine[Title])

PubMed daily alert RCTs (scanned only, not added to Covidence)

((COVID-19[MeSH Terms] OR SARS-CoV-2[Mesh Terms] OR coronavirus*[Title] OR covid*[Title] OR sars*[Title]) AND (Clinical Trial[Publication Type] OR trial[Title] OR randomi*[Text Word] OR randomly[Text Word] OR placebo[Text Word])) NOT (Systematic[SB] OR protocol[Title] OR vaccine[Title])

3.2 Respiratory support interventions

Last amended on 1 July 2021

Concept	Search terms
COVID-19 terms	(COVID-19[Mesh Terms] OR SARS-CoV-2[Mesh Terms] OR coronavirus* OR "corona virus" OR COVID OR COVID-19 OR COVID19 OR sars* OR "severe acute respiratory syndrome")
Respiratory MeSH terms All terms exploded	Respiratory Therapy[Mesh Terms] OR Respiratory Insufficiency[Mesh Terms] OR Monitoring, Physiologic[Mesh Terms] OR Prone Position[Mesh Terms] OR Intubation[Mesh Terms] OR Respiratory Distress Syndrome, Adult[Mesh Terms] OR Respiratory Distress Syndrome, Newborn[Mesh Terms] OR Hypoxia[Mesh Terms] OR Acute Lung Injury[Mesh Terms] OR Neuromuscular Blocking Agents[Mesh Terms]

Respiratory free-text terms Terms limited to Title	"respiratory failure"[Title] OR "respiratory support"[Title] OR "oxygen therapy"[Title] OR extracorporeal[Title] OR extra-corporeal[Title] OR ECMO[Title] OR ECLS[Title] OR ventilat*[Title] OR positive-pressure[Title] OR positive-airway[Title] OR end-expiratory[Title] OR CPAP[Title] OR BiPAP[Title] OR PEEP[Title] OR high-flow[Title] OR velocity[Title] OR HFNO[Title] OR HFNC[Title] OR HVNI[Title] OR HFNT[Title] OR (recruitment[Title] AND (manoeuvre*[Title] OR maneuver*[Title])) OR prone[Title] OR proning[Title] OR intubat*[Title] OR neuromuscular[Title]
Study design terms SRs and RCTs Not protocols	(Systematic[SB] OR meta-analysis[Publication Type] OR Cochrane Database Syst Rev[SO] OR review[Title] OR "systematic review"[Text Word] OR "rapid review"[Text Word] OR "scoping review"[Text Word] OR "living review"[Text Word] OR "meta-analysis"[Text Word] OR Clinical Trial[Publication Type] OR trial[Title] OR randomized[Text Word] OR randomised[Text Word] OR randomly[Text Word] OR placebo[Text Word]) NOT (protocol[Title] AND (randomi*[Title] OR review[Title] OR meta-analysis[Title]))

PubMed weekly alert (added to Covidence for screening)

From 5 February 2021 amended to limit to reviews and trials

((COVID-19[Mesh Terms] OR SARS-CoV-2[Mesh Terms] OR Coronavirus Infections[MeSH Terms] OR coronavirus* OR coronovirus* OR "corona virus" OR coronavirinae* OR COVID OR COVID-19 OR COVID19 OR sars* OR "severe acute respiratory syndrome") AND (Respiratory Therapy[Mesh Terms] OR Respiratory Insufficiency[Mesh Terms] OR Monitoring, Physiologic[Mesh Terms] OR Prone Position[Mesh Terms] OR Intubation[Mesh Terms] OR Respiratory Distress Syndrome, Adult[Mesh Terms] OR Respiratory Distress Syndrome, Newborn[Mesh Terms] OR Hypoxia[Mesh Terms] OR Acute Lung Injury[Mesh Terms] OR Neuromuscular Blocking Agents[Mesh Terms] OR "respiratory failure"[Title] OR "respiratory support"[Title] OR "oxygen therapy"[Title] OR extracorporeal[Title] OR extra-corporeal[Title] OR ECMO[Title] OR ECLS[Title] OR ventilat*[Title] OR positive-pressure[Title] OR positive-airway[Title] OR end-expiratory[Title] OR CPAP[Title] OR BiPAP[Title] OR PEEP[Title] OR high-flow[Title] OR velocity[Title] OR HFNO[Title] OR HFNC[Title] OR HVNI[Title] OR HFNT[Title] OR (recruitment[Title] AND (manoeuvre*[Title] OR maneuver*[Title])) OR prone[Title] OR proning[Title] OR intubat*[Title] OR neuromuscular[Title]) AND (Systematic[SB] OR meta-analysis[Publication Type] OR Cochrane Database Syst Rev[SO] OR review[Title] OR "systematic review"[Text Word] OR "rapid review"[Text Word] OR "scoping review"[Text Word] OR "living review"[Text Word] OR "meta-analysis"[Text Word] OR Clinical Trial[Publication Type] OR trial[Title] OR randomized[Text Word] OR randomised[Text Word] OR randomly[Text Word] OR placebo[Text Word]) NOT (protocol[Title] AND (randomi*[Title] OR review[Title] OR meta-analysis[Title])))

3.3 Pregnancy and newborn care

Last amended on 1 July 2021

Concept	Search terms
COVID-19 terms	(COVID-19[Mesh Terms] OR SARS-CoV-2[Mesh Terms] OR coronavirus* "corona virus" OR COVID OR COVID-19 OR COVID19 OR sars* OR "severe acute respiratory syndrome**")
Pregnancy MeSH Terms All terms exploded	Pregnancy[Mesh Terms] OR Pregnancy Complications[Mesh Terms] OR Maternal Health[Mesh Terms] OR Perinatal Care[Mesh Terms] OR Prenatal Care[Mesh Terms] OR Postpartum Period[Mesh Terms] OR Infant, Newborn[Mesh Terms] OR Infant, Newborn, Diseases[Mesh Terms] OR Infectious Disease Transmission, Vertical[Mesh Terms] OR Breast Feeding[Mesh Terms]
Pregnancy terms in Title	pregnan*[Title] OR mother*[Title] OR maternal[Title] OR obstetric*[Title] OR birth*[Title] OR perinatal[Title] OR newborn*[Title] OR neonat*[Title] OR infant*[Title]
Breastfeeding and rooming-in	breastfeed*[Text Word] OR "breast feed*" [Text Word] OR breastfed[Text Word] OR "breast fed" [Text Word] OR kangaroo[Text Word] OR skin-to-skin[Text Word] OR ((rooming*[Text Word] OR isolat*[Text Word] OR separat*[Text Word]) AND (newborn*[Text Word] OR baby[Text Word] OR babies[Text Word] OR infant*[Text Word] OR neonate*[Text Word] OR mother*[Text Word] OR maternal*[Text Word]))
Vertical transmission	vertical[Title] OR "vertical transmission" [Text Word] OR mother-to-child[Text Word] OR mother-to-fetal[Text Word] OR maternal-fetal[Text Word] OR maternal-child[Text Word] OR ((mother[TIAB] OR maternal[TIAB] OR woman[TIAB] OR women[TIAB]) AND (transmission[TIAB] OR transmit*[TIAB] AND (fetus[TIAB] OR foetus[TIAB] OR fetal[TIAB] OR baby[TIAB] OR newborn[TIAB] OR neonate[TIAB]))
Breast milk, breast cleansing, cord clamping	"human milk" [Text Word] OR "breast milk" [Text Word] OR breastmilk[Text Word] OR "breast cleansing" [Text Word] OR "cord clamping" [Text Word] OR "water birth*" [Text Word]
Antenatal steroids, ACE inhibitors	((antenatal*[Text Word] OR prenatal*[Text Word]) AND (steroid*[Text Word] OR corticosteroid*[Text Word])) OR ((Angiotensin-Converting Enzyme Inhibitors[Mesh Terms] OR Antihypertensive Agents[Mesh Terms] OR Angiotensin Receptor Antagonists[Mesh Terms] OR Peptidyl-Dipeptidase A[Mesh Terms] OR angiotensin OR inhibitors OR ACE-I* OR ACEI* OR ARBs OR antihypertens* OR anti-hypertens* OR

	hyperten*) AND (Pregnancy[Mesh Terms] OR Postpartum Period[MeSH Terms] OR pregnan* OR post-partum OR postpartum))
Prone, ECMO and anticoagulation	(pregnan*[Text Word] AND (prone[Text Word] OR prone[Text Word] OR extracorporeal[Text Word] OR extra-corporeal[Text Word] OR ECMO[Text Word] OR anticoagulant*[Text Word] OR anticoagulation[Text Word]))
Study design terms SRs and RCTs Not protocols	((Systematic[SB] OR meta-analysis[Publication Type] OR Cochrane Database Syst Rev[SO] OR review[Title] OR "systematic review"[Text Word] OR "rapid review"[Text Word] OR "scoping review"[Text Word] OR "living review"[Text Word] OR "meta-analysis"[Text Word] OR Clinical Trial[Publication Type] OR trial[Title] OR randomized[Text Word] OR randomised[Text Word] OR randomly[Text Word] OR placebo[Text Word] NOT (protocol[Title] AND (randomi*[Title] OR review[Title] OR meta-analysis[Title])))

PubMed weekly alert (added to Covidence for screening)

From 4 June 2021 amended to limit to reviews and trials only

((COVID-19[Mesh Terms] OR SARS-CoV-2[Mesh Terms] OR coronavirus* OR "corona virus" OR COVID OR COVID-19 OR COVID19 OR sars* OR "severe acute respiratory syndrome**") AND (Pregnancy[Mesh Terms] OR Pregnancy Complications[Mesh Terms] OR Maternal Health[Mesh Terms] OR Perinatal Care[Mesh Terms] OR Prenatal Care[Mesh Terms] OR Postpartum Period[Mesh Terms] OR Infant, Newborn[Mesh Terms] OR Infant, Newborn, Diseases[Mesh Terms] OR Infectious Disease Transmission, Vertical[Mesh Terms] OR Breast Feeding[Mesh Terms] OR pregnan*[Title] OR mother*[Title] OR maternal[Title] OR obstetric*[Title] OR birth*[Title] OR perinatal[Title] OR newborn*[Title] OR neonat*[Title] OR infant*[Title] OR breastfeed*[Text Word] OR "breast feed**"[Text Word] OR breastfed[Text Word] OR "breast fed"[Text Word] OR kangaroo[Text Word] OR ((rooming*[Text Word] OR isolat*[Text Word] OR separat*[Text Word]) AND (newborn*[Text Word] OR baby[Text Word] OR babies[Text Word] OR infant*[Text Word] OR neonate*[Text Word] OR mother*[Text Word] OR maternal*[Text Word])) OR vertical[Title] OR "vertical transmission"[Text Word] OR mother-to-child[Text Word] OR mother-to-fetal[Text Word] OR maternal-fetal[Text Word] OR maternal-child[Text Word] OR ((mother[TIAB] OR maternal[TIAB] OR woman[TIAB] OR women[TIAB] AND (transmission[TIAB] OR transmit*[TIAB] AND (fetus[TIAB] OR foetus[TIAB] OR fetal[TIAB] OR baby[TIAB] OR newborn[TIAB] OR neonate[TIAB))) OR "human milk"[Text Word] OR "breast milk"[Text Word] OR breastmilk[Text Word] OR skin-to-skin[Text Word] OR "breast cleansing"[Text Word] OR "cord clamping"[Text Word] OR "water birth**"[Text Word] OR ((antenatal*[Text Word] OR prenatal*[Text Word]) AND (steroid*[Text Word] OR corticosteroid*[Text Word])) OR ((Angiotensin-Converting Enzyme Inhibitors[Mesh Terms] OR Antihypertensive Agents[Mesh Terms] OR Angiotensin Receptor Antagonists[Mesh Terms] OR Peptidyl-Dipeptidase A[Mesh Terms] OR angiotensin OR inhibitors OR ACE-I* OR ACEI* OR ARBs OR antihypertens* OR anti-hypertens* OR hyperten*) AND (Pregnancy[Mesh Terms] OR Postpartum Period[MeSH Terms] OR pregnan* OR post-partum OR postpartum)) OR (pregnan*[Text Word] AND (prone[Text Word] OR prone[Text Word] OR extracorporeal[Text Word] OR extra-corporeal[Text Word]

OR ECMO[Text Word] OR anticoagulant*[Text Word] OR anticoagulation[Text Word])) AND ((Systematic[SB] OR meta-analysis[Publication Type] OR Cochrane Database Syst Rev[SO] OR review[Title] OR "systematic review"[Text Word] OR "rapid review"[Text Word] OR "scoping review"[Text Word] OR "living review"[Text Word] OR "meta-analysis"[Text Word] OR Clinical Trial[Publication Type] OR trial[Title] OR randomized[Text Word] OR randomised[Text Word] OR randomly[Text Word] OR placebo[Text Word]) NOT (protocol[Title] AND (randomi*[Title] OR review[Title] OR meta-analysis[Title])))

Amended 1 July 2021

Revised the search so that records about treatments recommended in the guidelines (i.e. remdesivir, corticosteroids, tocilizumab, sarilumab, baricitinib, etc.) are retrieved irrespective of inclusion of study design terms. This component of the search has been added to the end of the PubMed alert search using OR.

<p>COVID-19 terms AND (Pregnancy MeSH OR pregnancy etc in title) AND (remdesivir OR steroids etc in title)</p>	<p>(COVID-19[Mesh Terms] OR OR SARS-CoV-2[Mesh Terms] OR coronavirus* OR "corona virus" OR coronavirinae* OR COVID OR COVID-19 OR COVID19 OR sars* OR "severe acute respiratory syndrome*") AND (Pregnancy[Mesh Terms] OR Pregnancy Complications[Mesh Terms] OR Maternal Health[Mesh Terms] OR Perinatal Care[Mesh Terms] OR Prenatal Care[Mesh Terms] OR Postpartum Period[Mesh Terms] OR Infant, Newborn[Mesh Terms] OR Infant, Newborn, Diseases[Mesh Terms] OR Infectious Disease Transmission, Vertical[Mesh Terms] OR Breast Feeding[Mesh Terms] OR pregnan*[Title] OR mother*[Title] OR maternal[Title] OR obstetric*[Title] OR birth*[Title] OR perinatal[Title] OR newborn*[Title] OR neonat*[Title] OR infant*[Title]) AND (remdesivir[Title] OR dexamethasone[Title] OR hydrocortisone[Title] OR methylprednisolone[Title] OR steroid*[Title] OR corticosteroid*[Title] OR tocilizumab[Title] OR baricitinib[Title] OR sarilumab[Title] OR casirivimab[Title] OR imdevimab[Title] OR REGEN-COV[Title])</p>
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3.4 PIMS-TS and MIS-C

Last amended 1 July 2021

Concept	Search terms
COVID-19 terms	(COVID-19[Mesh Terms] OR SARS-CoV-2[Mesh Terms] OR coronavirus* OR "corona virus" OR COVID OR COVID-19 OR COVID19 OR sars* OR "severe acute respiratory syndrome*")
PIMS-TS MeSH Terms All terms exploded	((Systemic Inflammatory Response Syndrome[MH]) AND (Infant[MH] OR Child[MH] OR Adolescent[MH]))

PIMS-TS free-text terms all fields	PIMS* OR MIS-C OR kawasaki* OR ((multi-system OR multisystem OR "toxic shock syndrome" OR "septic shock syndrome") AND (infant* OR child* OR adolescent* OR paediatric* OR pediatric* OR young*))
Study design terms SRs, RCTs, NSRIs, observational studies Not protocols	((Systematic[SB] OR meta-analysis[Publication Type] OR Cochrane Database Syst Rev[SO] OR review[Title] OR "systematic review"[Text Word] OR "rapid review"[Text Word] OR "scoping review"[Text Word] OR "living review"[Text Word] OR "meta-analysis"[Text Word] OR Clinical Trial[Publication Type] OR trial[Title] OR randomized[Text Word] OR randomised[Text Word] OR randomly[Text Word] OR placebo[Text Word] OR Epidemiologic Studies[Mesh] OR Observational Study[Publication Type] OR Evaluation Study[Publication Type] OR Comparative Study[Publication Type] OR study[Title] OR analysis[Title] OR cohort[Text Word] OR "case series"[Text Word] OR "case report"[Text Word] OR cross-section*[Text Word] OR "retrospective analysis"[Text Word] OR non-randomised[Text Word] OR non-randomized[Text Word] OR case-control*[Text Word] OR "controlled before"[Text Word] OR "control group"[Text Word] OR "prospective study"[Text Word] OR "retrospective study"[Text Word] OR "observational study"[Text Word] OR guideline*[Text Word]) NOT (protocol[Title] AND (randomi*[Title] OR review[Title] OR meta-analysis[Title])))

PubMed weekly alert (added to Covidence for screening)

(COVID-19[Mesh Terms] OR SARS-CoV-2[Mesh Terms] OR coronavirus* OR "corona virus" OR COVID OR COVID-19 OR COVID19 OR sars* OR "severe acute respiratory syndrome") AND (((Systemic Inflammatory Response Syndrome[MH]) AND (Infant[MH] OR Child[MH] OR Adolescent[MH])) OR PIMS* OR MIS-C OR kawasaki* OR ((multi-system OR multisystem OR "toxic shock syndrome" OR "septic shock syndrome") AND (infant* OR child* OR adolescent* OR paediatric* OR pediatric* OR young*))) AND (Systematic[SB] OR meta-analysis[Publication Type] OR Cochrane Database Syst Rev[SO] OR review[Title] OR "systematic review"[Text Word] OR "rapid review"[Text Word] OR "scoping review"[Text Word] OR "living review"[Text Word] OR "meta-analysis"[Text Word] OR Clinical Trial[Publication Type] OR trial[Title] OR randomized[Text Word] OR randomised[Text Word] OR randomly[Text Word] OR placebo[Text Word] OR Epidemiologic Studies[Mesh] OR Observational Study[Publication Type] OR Evaluation Study[Publication Type] OR Comparative Study[Publication Type] OR study[Title] OR analysis[Title] OR cohort[Text Word] OR "case series"[Text Word] OR "case report"[Text Word] OR cross-section*[Text Word] OR "retrospective analysis"[Text Word] OR non-randomised[Text Word] OR non-randomized[Text Word] OR case-control*[Text Word] OR "controlled before"[Text Word] OR "control group"[Text Word] OR "prospective study"[Text Word] OR "retrospective study"[Text Word] OR "observational study"[Text Word] OR guideline*[Text Word]) OR NOT (protocol[Title] AND (randomi*[Title] OR review[Title] OR meta-analysis[Title])))