

Appendix 1 – Search strategy

Embase search via Ovid, last updated 28/07/2021.

#	Searches	Results
1	Pregnan*	723025
2	Third trimester pregnancy/ or first trimester pregnancy/ or “parameters concerning the fetus, newborn and pregnancy”/ or pregnancy/ or pregnancy complication/ or high risk pregnancy/ or pregnancy disorder/ or second trimester pregnancy/ or pregnancy outcome/	498419
3	Antenat*	51397
4	Gestat*	297546
5	Matern*	379690
6	Maternity ward/ or maternity care/	21247
7	Breastfeed*	35731
8	Breast feeding/ or mother/ or breast milk/	140234
9	Lactat*	227694
10	Lactation/	39318
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10	1220052
12	COVID*	147977
13	Sars-cov-2	52773
14	Coronavirus	166814
15	Severe acute respiratory syndrome coronavirus 2/ or coronavirus disease 2019/ or coronavirus infection/	146237
16	12 or 13 or 14 or 15	187862
17	Stillb*	23397
18	Stillbirth/ or congenital malformation/	98283
19	Intrauterine adj demise	239
20	Intrauterine adj death	1647
21	Pregnancy adj loss	10662
22	Miscarr*	25084
23	Spontaneous adj abortion	39613
24	Spontaneous abortion/	38012
25	Fetus death/	15764
26	17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25	158662
27	Neonat*	303927
28	Infan*	701133
29	Newborn/	366307
30	Infant/ or hospitalized infant/ or infant disease/ or infant mortality/ or high risk infant/ or infant care/	477647
31	27 or 28 or 29 or 30	995198
32	Infect*	2546071
33	Infection/ or infection complication/ or infection risk/ or intrauterine infection/ or perinatal infection/	378561

34	Sepsis	201867
35	Newborn sepsis/ or sepsis/	157457
36	Nicu or neonatal adj admission	2739
37	Newborn intensive care/ or neonatal intensive care unit/	37168
38	Premat*	263202
39	Prematurity/ or premature labour/	130336
40	Small adj for adj gestational adj age or sga	20340
41	Small for date infant/	15970
42	Low adj birthweight	7252
43	Low birth weight/	31063
44	Operative adj delivery	1711
45	Instrumental delivery/	3855
46	Caesarean or c-section or cesarean	107540
47	Cesarean section/	92477
48	Instrumental delivery or ventouse or forceps or vacuum extraction	27358
49	Vacuum extraction/ or forceps delivery/ or forceps/	13907
50	Ventilat*	291355
51	Respiratory adj distress	100158
52	CPAP or BiPAP	18918
53	Ventilated patient/ or artificial ventilation/	137133
54	Continuous positive airway pressure/ or bilevel positive airway pressure	3083
55	Respiratory distress/	32246
56	Seizure or convulsion or fit	361565
57	Seizure/ or "seizure, epilepsy or convulsion"/	133064
58	Hypoxic ischaemic encephalopathy or hie	12140
59	Hypoxic ischaemic encephalopathy/	8490
60	Therapeutic cooling or induced hypothermia	171749
61	Brain ischemia/ or induced hypothermia/ or cooling/	171749
62	MRI or magnetic resonance imaging or eeg or electroencephalogram or cruss or cranial ultrasound or brain scan or brain imaging	1108432
63	Neuroimaging/ or nuclear magnetic resonance imaging/ or functional magnetic resonance imaging/ or electroencephalogram/	1011212
64	Hypoton* or hyperton* or abnormal tone or spasticity or cerebral palsy or neurological disease or neurological abnormality	118366
65	Spasticity/ or cerebral palsy/ or muscle hypertonia/ or neurologic disease/	176148
66	Cognitive ability or learning difficulty or learning disability or developmental delay	36605
67	Learning disorder/ or developmental delay/ or developmental disorder/ or mental deficiency/	93582

68	Gastrointestinal disease or nec or necrotising enterocolitis or necrotizing enterocolitis	104188
69	Gastrointesinal disease/ or necrotizing enterocolitis/	95690
70	Visual impairment or visually impaired or blind*	494101
71	Visual impairment/ or blindness/	73184
72	Hearing impair* or deaf*	87073
73	Hearing impairment/	46891
74	Quality of life or "quality of life"/	637206
75	Vertical transmi*	17715
76	Vertical transmission/	14908
77	32-76, combined with OR	5907734
78	77 and 31	459481
79	78 or 26	593511
80	11 and 16 and 79	1824

Medline search via Ovid, last updated 28/07/2021.

#	Searches	Results
1	Pregnan*	1047802
2	Pregnancy trimester, third/ or pregnancy trimester, second/ or pregnancy trimester, first/ or pregnancy/ or pregnancy, high-risk/ or pregnancy outcome/ or pregnancy complications/	911420
3	Antenat*	41206
4	Prenatal care/	29574
5	Gestat*	261469
6	Matern*	359413
7	Perinatal care/	4983
8	Breastfeed*	30017
9	Breast feeding/ or mothers/	81408
10	Lactat*	224527
11	Lactation/	44082
12	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11	1454976
13	COVID*	156147
14	Sars-cov-2	99388
15	Coronavirus	98845
16	Covid-19/ or sars-cov-2/ or coronavirus/	97776
17	13 or 14 or 15 or 16	175760
18	Stillb*	17756
19	Stillbirth/	5353
20	Intrauterine adj demise	142
21	Intrauterine adj death	1477
22	Pregnancy adj loss	6997
23	Miscarr*	15892
24	Spontaneous adj abortion	7719

25	Spontaneous abortion/	20453
26	Fetal death/ or congenital abnormalities/	57641
27	18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26	106523
28	Neonat*	309101
29	Infan*	1335539
30	Infant, newborn/	626610
31	Infant/ or infant care/ or infant mortality/ or infant death/ or infant health/	841541
32	28 or 29 or 30 or 31	1450833
33	Infect*	2447138
34	Infections/	39946
35	Sepsis	133814
36	Neonatal sepsis/ or sepsis/	63823
37	Nicu or neonatal admission	11656
38	Intensive care units, neonatal/	15858
39	Premat*	223778
40	Infant, premature/ or gestational age/ or premature birth/	139364
41	Small for gestational age or sga	16965
42	Infant, small for gestational age/ or birth weight/	46772
43	Low adj birthweight	7841
44	Infant, low birth weight/	19191
45	Operative adj delivery	1256
46	Extraction, obstetrical/	2534
47	Caesarean or c-section or cesarean	78432
48	Cesarean section/ or delivery, obstetric/	72546
49	Instrumental delivery or ventouse or forceps or vacuum extraction	14655
50	Vacuum extraction, obstetrical/ or obstetrical forceps/	2720
51	Ventilat*	201282
52	Respiratory adj distress	61778
53	CPAP or BiPAP or Continuous positive airway pressure or bilevel positive airway pressure	16071
54	Ventilation/ or respiration, artificial/	58137
55	Continuous positive airway pressure/ or positive-pressure respiration/ or noninvasive ventilation/	27370
56	Respiratory distress syndrome/	21490
57	Seizure or convulsion or fit	208598
58	Seizures/	56493
59	Hypoxic ischaemic encephalopathy or hypoxic ischemic encephalopathy or hie	5083
60	Hypoxia-ischaemia, brain/ or asphyxia neonatorum	13249
61	Therapeutic cooling or induced hypothermia	2598
62	Brain ischemia/ or hypothermia, induced/	75818

63	MRI or magnetic resonance imaging or eeg or electroencephalogram or cruss or cranial ultrasound or brain scan or brain imaging	707043
64	Neuroimaging/ or magnetic resonance imaging/ or electroencephalogram/	575390
65	Hypoton* or hyperton* or abnormal tone or spasticity or cerebral palsy or neurological disease or neurological abnormality	103230
66	Muscle spasticity/ or cerebral palsy/ or muscle hypertonia/ or muscle hypotonia/ or nervous system diseases/	78506
67	Cognitive ability or learning difficulty or learning disability or developmental delay	23602
	Learning disabilities/ or developmental disabilities/ or intellectual disability/	87101
69	Gastrointestinal disease or nec or necrotising enterocolitis or necrotizing enterocolitis	15271
70	Gastrointestinal diseases/ or enterocolitis, necrotizing/	43975
71	Visual impairment or visually impaired or blind*	395483
72	Vision disorders/	28486
73	Hearing impair* or deaf*	62891
74	Hearing loss/ or deafness/ or persons with hearing impairments/	43064
75	Quality of life or "quality of life"/	380511
76	Vertical transmi*	7322
77	Infectious disease transmission, vertical/	17257
78	33-77, combined with OR	5028529
79	78 and 32	548597
80	79 or 27	636683
81	12 and 17 and 80	1143

Global health search via Ovid, last updated 28/07/2021

#	Searches	Results
1	Pregnan*	126717
2	Pregnancy trimester, third/ or pregnancy trimester, second/ or pregnancy trimester, first/ or pregnancy/ or pregnancy, high-risk/ or pregnancy outcome/ or pregnancy complications/	99638
3	Antenat*	17826
4	Prenatal care/	3506
5	Gestat*	112821
6	Matern*	86406
7	Breastfeed*	25392
8	Breast feeding/ or mothers/	51651

9	Lactat*	50673
10	Lactation/	12941
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10	229179
12	COVID*	36404
13	Sars-cov-2	15628
14	Coronavirus	44855
15	Severe acute respiratory syndrome coronavirus/	5256
16	12 or 13 or 14 or 15	46013
18	Stillb*	4753
19	Stillbirth/	4006
20	Intrauterine adj demise	9
21	Intrauterine adj death	139
22	Pregnancy adj loss	923
23	Miscarr*	3987
24	Spontaneous adj abortion	3435
25	Spontaneous abortion/	2942
26	Fetal death/ or congenital abnormalities/	15922
27	18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26	21539
28	Neonat*	59142
29	Infan*	156485
30	Neonates/ or infants/	122421
31	Infant care/ or infant mortality/ or infant death/ or infant health/	5195
32	28 or 29 or 30 or 31	176742
33	Infect*	1187975
34	Infections/	488566
35	Sepsis	25827
36	Sepsis/	18064
37	Nicu or neonatal admission	2676
38	Premat*	32208
39	Premature infants/ or prematurity/	20675
40	Small for gestational age or sga	4240
41	Infant, small for gestational age/ or birth weight/	13532
42	Low adj birthweight	3185
43	Low birth weight infants/	8798
44	Operative adj delivery	117
45	Caesarean or c-section or cesarean	9334
46	Caesarean section/	5734
47	Instrumental delivery or ventouse or forceps or vacuum extraction	863
48	Parturition complications/	1384
49	Ventilat*	20633
50	Respiratory adj distress	6548
51	CPAP or BiPAP or Continuous positive airway pressure or bilevel positive airway pressure	701
52	Ventilation/ or artificial respiration/	4243

53	Acute respiratory distress syndrome/	1453
54	Seizure or convulsion or fit	27459
55	Seizures/	3152
56	Hypoxic ischaemic encephalopathy or hypoxic ischemic encephalopathy or hie	456
57	Therapeutic cooling or induced hypothermia	157
58	MRI or magnetic resonance imaging or eeg or electroencephalogram or cruss or cranial ultrasound or brain scan or brain imaging	15860
59	Magnetic resonance imaging/ or electroencephalogram/	6065
60	Hypoton* or hyperton* or abnormal tone or spasticity or cerebral palsy or neurological disease or neurological abnormality	5668
61	Cerebral palsy/ or nervous system diseases/	18651
62	Cognitive ability or learning difficulty or learning disability or developmental delay	1816
63	Learning disabilities/ or mental disorders/ or people with mental disabilities/	49942
64	Gastrointestinal disease or nec or necrotising enterocolitis or necrotizing enterocolitis	3697
65	Gastrointestinal diseases/	10201
66	Visual impairment or visually impaired or blind*	48935
67	Vision disorders/	3331
68	Hearing impair* or deaf*	5024
69	Hearing impairment/ or deafness/ or people with hearing impairment/	4259
70	Quality of life or "quality of life"/	35856
71	Vertical transmi*	5345
72	Vertical transmission/	3839
73	33-72, combined with OR	1392378
74	72 and 32	93930
75	74 or 27	110446
76	75 and 16 and 11	570

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1	SARS-CoV-2 or COVID or Coronavirus	8903
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