

# Appendix 1

## Documentation of literature search

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Searches were conducted in the following databases:

Database	Number of search results
MEDLINE(Ovid):	570
Embase (Ovid):	525
Cochrane Library:	32
CINAHL (Ebsco):	257
PsycINFO (Ovid):	178
Maternity & Infant Care Database (Ovid):	85
SveMed+:	24
Number of references before double checking	1671
Number of references after double checking	1060

All searches were conducted 29 April 2019–7 May 2019, updated 17 March 2020 with an extended search to 31 December 2019 by Gunn Kleven, Senior Librarian, Library of Medicine and Science, University of Oslo.

Number of hours used: 25

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Ovid MEDLINE(R) ALL 1946 to 16 March 2020

Date of search: 7 May 2019, updated 17 March 2020

Number of search results: 585

Search Strategy:

#	Searches	Results
1	Pregnant Women/ or exp Pregnancy/ or exp Pregnancy Trimesters/ or exp Pregnancy Complications/	912882
2	Maternal Health/ or Maternal Welfare/ or exp maternal health services/ or maternal-child health services/ or perinatal care/ or prenatal care/	53768
3	exp Postpartum Period/ or Peripartum Period/	65058

4	Obstetrics/ or exp Delivery, Obstetric/ or exp Obstetric Labor Complications/	147755
5	(pregnancy or pregnancies or pregnant or gestation* or gravidity or gravidities or child bearing or childbearing or expectant mother* or prenatal or pre natal or perinatal or peri natal or antenatal or ante natal or postnatal or post natal or maternal or maternity or maternities or neonatal or intrapartum or antepartum or postpartum or puerperal or labor* or labour* or childbirth* or birth or births or obstetric* or partus or parturition*).tw,kf.	1807186
6	(((caesarean or cesarean) adj2 (section* or birth)) or c-section*).tw,kf.	47140
7	((abdominal or operative) adj2 deliver*).tw,kf.	2907
8	or/1-7	2120076
9	"emigrants and immigrants"/ or undocumented immigrants/ or "Emigration and Immigration"/ or "Transients and Migrants"/ or Refugees/	51294
10	exp Ethnic Groups/ or Minority Groups/ or Minority Health/ or Cross-Cultural Comparison/	180857
11	(migrant* or emigrant* or immigrant* or refugee* or foreign* or minority or minorities or asylum* or ethnic* or displaced or stateless* or race* or noncitizen* or non-citizen* or newcomer* or (new* adj2 arriv*) or (recent* adj2 entrant*) or country of origin).tw,kf.	456706
12	or/9-11	585324
13	and/8,12	64022
14	Norway/	37995
15	(norway* or norwegian* or oslo* or bergen or trondheim or tromsø).tw,kf,ia,cp,pl,in,lg.	198549
16	or/14-15	201097
17	and/13,16	714
18	(vangen or bakken or skjeldal or stray-pedersen or stoltenberg or sorbye or sundby).ax. or (vangen * or bakken * or skjeldal * or stray-pedersen * or stoltenberg * or sorbye * or sundby *).au.	3061
19	and/13,18	68
20	or/17,19	718
21	limit 20 to yr="2000 -2019"	570

Embase Classic+Embase 1947 to 16 March 2020

Date of search: 7 May 2019, updated 17 March 2020

Number of search results: 525

Search Strategy:

#	Searches	Results
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1	pregnant woman/ or exp pregnancy/ or exp pregnancy complication/	880192
2	perinatal care/ or exp postnatal care/ or prenatal care/ or perinatal period/ or exp maternal care/ or maternal health service/	231271
3	exp obstetrics/ or exp obstetric delivery/ or exp labor complication/ or exp childbirth/	394733
4	(pregnancy or pregnancies or pregnant or gestation* or gravidity or gravidities or child bearing or childbearing or expectant mother* or prenatal or pre natal or perinatal or peri natal or antenatal	2482920
5	or ante natal or postnatal or post natal or maternal or maternity or maternities or neonatal or intrapartum or antepartum or postpartum or puerperal or labor* or labour* or childbirth* or birth or births or obstetric* or partus or parturition*).tw,kw.	
5	((caesarean or cesarean) adj2 (section* or birth)) or c-section*).tw,kw.	71799
6	((abdominal or operative) adj2 deliver*).tw,kw.	4835
7	or/1-6	2804304
8	migrant/ or emigrant/ or immigrant/ or migrant worker/ or refugee/ or undocumented immigrant/ or migration/ or immigration/	77786
9	exp ethnic group/ or minority group/ or minority health/ or cultural factor/	213572
10	(migrant* or emigrant* or immigrant* or refugee* or foreign* or minority or minorities or asylum* or ethnic* or displaced or stateless* or race* or noncitizen* or non-citizen* or newcomer* or (new* adj2 arriv*) or (recent* adj2 entrant*) or country of origin).tw,kw.	618552
11	or/8-10	794775
12	and/7,11	88442
13	Norway/	43937
14	(norway* or norwegian* or oslo* or bergen or trondheim or tromso).tw,kw,cp,lg.	156950
15	or/13-14	162185
16	and/12,15	738
17	(vangen * or bakken * or skjeldal * or stray-pedersen * or stoltenberg * or sorbye * or sundby *).au.	3482
18	and/12,17	81
19	or/16,18	755
20	limit 19 to yr="2000 -2019"	598
21	limit 20 to (conference abstract or conference paper)	73
22	20 not 21	525

APA PsyclINFO 1806 to Week 2 of March 2020

Date of search: 7 May 2019, updated 17 March 2020

Number of search results: 178

Search Strategy:

#	Searches	Results
1	exp pregnancy/ or exp pregnancy outcomes/	41247
2	prenatal care/ or antepartum period/ or intrapartum period/ or perinatal period/ or postnatal period/	8982
3	"labor (childbirth)"/ or caesarean birth/ or birth/ or natural childbirth/ or premature birth/	13936
4	exp obstetrics/ or obstetrical complications/ or birth injuries/ or birth trauma/	4223
5	(pregnancy or pregnancies or pregnant or gestation* or gravidity or gravidities or child bearing or childbearing or expectant mother* or prenatal or pre natal or perinatal or peri natal or antenatal or ante natal or postnatal or post natal or maternal or maternity or maternities or neonatal or intrapartum or antepartum or postpartum or puerperal or labor* or labour* or childbirth* or birth or births or obstetric* or partus or parturition*).mp.	278365
6	((caesarean or cesarean) adj2 (section* or birth)) or c-section*).mp.	1486
7	((abdominal or operative) adj2 deliver*).mp.	70
8	or/1-7	279719
9	human migration/ or immigration/ or refugees/	32391
10	exp "racial and ethnic groups"/ or "racial and ethnic differences"/ or minority groups/	152221
11	(migrant* or emigrant* or immigrant* or refugee* or foreign* or minority or minorities or asylum* or ethnic* or displaced or stateless* or race* or noncitizen* or non-citizen* or newcomer* or (new* adj2 arriv*) or (recent* adj2 entrant*) or country of origin).mp.	274260
12	or/9-11	339546
13	and/8,12	23829
14	(norway* or norwegian* or oslo* or bergen or trondheim or tromsø).mp,lo,in,pl,lg.	40110
15	and/13-14	189
16	(vangen * or bakken * or skjeldal * or stray-pedersen * or stoltzenberg * or sorbye * or sundby *).au.	587
17	and/13,16	10
18	or/15,17	191
19	limit 18 to yr="2000 -2019"	178

Maternity & Infant Care Database (MIDIRS) 1971 to January 2020



Date of search: 7 May 2019, updated 17 March 2020

Number of search results: 85

Search Strategy:

#	Searches	Results
1	(pregnancy or pregnancies or pregnant or gestation* or gravidity or gravidities or child bearing or childbearing or expectant mother* or prenatal or pre natal or perinatal or peri natal or antenatal or ante natal or postnatal or post natal or maternal or maternity or maternities or neonatal or intrapartum or antepartum or postpartum or puerperal or labor* or labour* or childbirth* or birth or births or obstetric* or partus or parturition*).mp.	219242
2	((caesarean or cesarean) adj2 (section* or birth)) or c-section*).mp.	16990
3	((abdominal or operative) adj2 deliver*).mp.	1567
4	or/1-3	220167
5	(migrant* or emigrant* or immigrant* or refugee* or foreign* or minority or minorities or asylum* or ethnic* or displaced or stateless* or race* or noncitizen* or non-citizen* or newcomer* or (new* adj2 arriv*) or (recent* adj2 entrant*) or country of origin).mp.	12251
6	and/4-5	10671
7	(norway* or norwegian* or oslo* or bergen or trondheim or troms).mp,aa,in,pa.	2185
8	and/6-7	90
9	limit 6 to Norway	28
10	or/8-9	90
11	(vangen * or bakken * or skjeldal * or stray-pedersen * or stoltenberg * or sorbye * or sundb *).au.	101
12	and/6,11	22
13	or/10,12	93
14	limit 13 to yr="2000 -2019"	85

### CINAHL (EBSCO)

Date of search: 7 May 2019, updated 17 March 2020

Number of search results: 257

#	Query	Limiters/Expanders	Results
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S1	(MH "Pregnancy+") OR (MH "Pregnancy in Adolescence+") OR (MH "Pregnancy Trimesters+") OR (MH "Pregnancy, Multiple+") OR (MH "Pregnancy, Unplanned") OR (MH "Expectant Mothers") OR (MH "Pregnancy Complications+") OR (MH "Childbirth+") OR (MH "Childbirth, Premature") OR (MH "Term Birth") OR (MH "Vaginal Birth+") OR (MH "Vaginal Birth After Cesarean") OR (MH "Labor+") OR (MH "Labor Complications+") OR (MH "Cesarean Section+")	Search modes - Boolean/Phrase	209,118
S2	(MH "Intrapartum Care+") OR (MH "Perinatal Care") OR (MH "Prenatal Care")	Search modes - Boolean/Phrase	25,341
S3	(MH "Maternal Health Services") OR (MH "Maternal Welfare") OR (MH "Maternal Role")	Search modes - Boolean/Phrase	10,620
S4	(MH "Obstetrics") OR (MH "Obstetric Care") OR (MH "Delivery, Obstetric") OR (MH "Birthing Positions")	Search modes - Boolean/Phrase	20,190
S5	(pregnancy or pregnancies or pregnant or gestation* or gravidity or gravidities or child bearing or childbearing or expectant mother* or prenatal or pre natal or perinatal or peri natal or antenatal or ante natal or postnatal or post natal or maternal or maternity or maternities or neonatal or intrapartum or antepartum or postpartum or puerperal or labor* or labour* or childbirth* or birth or births or obstetric* or partus or parturition*)	Search modes - Boolean/Phrase	487,099
S6	((caesarean or cesarean) N2 (section* or birth)) or c-section*)	Search modes - Boolean/Phrase	22,468
S7	((abdominal or operative) N2 deliver*)	Search modes - Boolean/Phrase	1020
S8	S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7	Search modes - Boolean/Phrase	491,753
S9	(MH "Emigration and Immigration") OR (MH "Relocation") OR (MH "Transients and Migrants")	Search modes - Boolean/Phrase	11,625
S10	(MH "Immigrants") OR (MH "Immigrants, Illegal") OR (MH "Refugees")	Search modes - Boolean/Phrase	20,039
S11	(MH "Ethnic Groups+") OR (MH "Minority Groups")	Search modes - Boolean/Phrase	142,210
S12	(migrant* or emigrant* or immigrant* or refugee* or foreign* or minority or minorities or asylum* or ethnic* or displaced or stateless* or race* or noncitizen* or non-citizen* or newcomer* or (new* N2 arriv*) or (recent* N2 entrant*) or country of origin).	Search modes - Boolean/Phrase	176,044
S13	S9 OR S10 OR S11 OR S12	Search modes - Boolean/Phrase	256,308
S14	S8 AND S13	Search modes - Boolean/Phrase	28,845

S15	(MH "Norway")	Search modes - Boolean/Phrase	13,268
S16	TX (norway* or norwegian* or oslo* or bergen or trondheim or tromso	Search modes - Boolean/Phrase	37,138
S17	S15 OR S16	Search modes - Boolean/Phrase	30,651
S18	S14 AND S17	Search modes - Boolean/Phrase	270
S19	AU vangen or bakken or skjeldal or stray-pedersen or stoltenberg or sorbye or sundby	Search modes - Boolean/Phrase	924
S20	S14 AND S19	Search modes - Boolean/Phrase	33
S21	S18 OR S20	Search modes - Boolean/Phrase	248
S22	S18 OR S20	Limiters - Published Date: 20000101-20190431 Search modes - Boolean/Phrase	271
S23	S18 OR S20	Limiters - Published Date: 20000101-20191231 Search modes - Boolean/Phrase	257

### The Cochrane Library

Date of search: 7 May 2019, updated 17 March 2020

Number of search results: 32 (1 Cochrane Review, 31 Trials)

#### ID Search Results

#1	MeSH descriptor: [Pregnant Women] explode all trees	242
#2	MeSH descriptor: [Pregnancy] explode all trees	7602
#3	MeSH descriptor: [Pregnancy Trimesters] explode all trees	1689
#4	MeSH descriptor: [Pregnancy Complications] explode all trees	11309
#5	MeSH descriptor: [Maternal Health] explode all trees	50
#6	MeSH descriptor: [Maternal Welfare] explode all trees	112
#7	MeSH descriptor: [Maternal Health Services] explode all trees	2111
#8	MeSH descriptor: [Maternal-Child Health Services] explode all trees	33
#9	MeSH descriptor: [Perinatal Care] explode all trees	548
#10	MeSH descriptor: [Prenatal Care] explode all trees	1404



#11	MeSH descriptor: [Postpartum Period] explode all trees	1553
#12	MeSH descriptor: [Peripartum Period] explode all trees	9
#13	MeSH descriptor: [Obstetrics] explode all trees	176
#14	MeSH descriptor: [Delivery, Obstetric] explode all trees	5062
#15	MeSH descriptor: [Obstetric Labor Complications] explode all trees	3779
#16	((pregnancy or pregnancies or pregnant or gestation* or gravidity or gravidities or child bearing or childbearing or expectant mother* or prenatal or pre natal or perinatal or peri natal or antenatal or ante natal or postnatal or post natal or maternal or maternity or maternities or neonatal or intrapartum or antepartum or postpartum or puerperal or labor* or labour* or childbirth* or birth or births or obstetric* or partus or parturition*)):ti,ab,kw (Word variations have been searched)	148310
#17	((((caesarean or cesarean) near/2 (section* or birth)) or c-section*)):ti,ab,kw (Word variations have been searched)	11009
#18	((((abdominal or operative) near/2 deliver*)):ti,ab,kw (Word variations have been searched)	555
#19	{OR #1-#18}	150927
#20	MeSH descriptor: [Emigrants and Immigrants] explode all trees	155
#21	MeSH descriptor: [Emigration and Immigration] explode all trees	63
#22	MeSH descriptor: [Transients and Migrants] explode all trees	65
#23	MeSH descriptor: [Refugees] explode all trees	100
#24	MeSH descriptor: [Ethnic Groups] explode all trees	4104
#25	MeSH descriptor: [Minority Groups] explode all trees	329
#26	MeSH descriptor: [Minority Health] explode all trees	23
#27	MeSH descriptor: [Cross-Cultural Comparison] explode all trees	206
#28	((migrant* or emigrant* or immigrant* or refugee* or foreign* or minority or minorities or asylum* or ethnic* or displaced or stateless* or race* or noncitizen* or non-citizen* or newcomer* or (new* near/2 arriv*) or (recent* near/2 entrant*) or country of origin)):ti,ab,kw (Word variations have been searched)	45875
#29	{OR #20-#28}	48280
#30	#19 and #29	5857
#31	MeSH descriptor: [Norway] explode all trees	980
#32	(norway* or norwegian* or oslo* or bergen or trondheim or tromso):ti,ab,kw (Word variations have been searched)	3805
#33	{OR #31-#32}	3805
#34	#30 and #33	42
#35	(vangen or bakken or skjeldal or stray-pedersen or stoltenberg or sorbye or sundby):au (Word variations have been searched)	141
#36	#30 and #35	1
#37	#34 or #36 with Cochrane Library publication date between Jan 2000 and Dec 2019	32





## SveMed+

Date of search: 7 May 2019, updated 17 March 2020

Number of search results: 24

No.	Search string	Number of search results
1	exp:"Pregnant Women"	61
2	exp:"Pregnancy"	4533
3	exp:"Pregnancy Trimesters"	165
4	exp:"Pregnancy Complications"	2245
5	exp:"Maternal Health"	1
6	exp:"Maternal Health Services"	408
7	exp:"Maternal Welfare"	162
8	exp:"Perinatal Care" 61 9 exp:"Prenatal Care"	72
10	exp:"Postpartum Period"	150
11	exp:"Obstetrics"	151
12	exp:"Delivery, Obstetric"	664
13	exp:"Obstetric Labor Complications"	399
14	#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	5081
15	exp:"Emigrants and Immigrants"	412
16	exp:"Emigration and Immigration"	867
17	exp:"Transients and Migrants"	77
18	exp:"Refugees"	665
19	exp:"Ethnic Groups"	417
20	exp:"Minority Groups"	112
21	exp:"Minority Health"	6
22	exp:"Cross-Cultural Comparison"	172
23	migrant* OR emigrant* OR immigrant* OR refugee* OR foreign* OR minority OR minorities	1800
24	asylum* OR ethnic* OR displaced or stateless* OR race* OR noncitizen* OR non-citizen* OR newcomer*	492
25	"newly arrived" OR "newly arrival" OR "recent entrat" OR "country of origin"	22
26	innvandr* OR indvandr* OR flyktning* OR asylsøker* OR asylsøka* OR etnisk* OR multietnisk* OR ikkevest* OR ikke-vest* OR fremmedkult* OR tverrkult*	1447
27	#15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 #14 AND #27	2608 28 102
29	exp:"norway"	13054
30	norway OR norge OR norwegian* OR norsk OR oslo OR bergen OR trondheim OR tromsø OR tromsø	26559
31	#29 OR #30 26559 32 #28 AND #31	29
33	vangen OR bakken OR skjeldal OR stray-pedersen OR stoltenberg OR sorbye OR sundby	259
34	#28 AND #33 6 35 #32 OR #34 29 fra 2000: 24 treff	



## PRISMA 2009 Flow Diagram



Records identified through  
database searching (n =  
1671 )

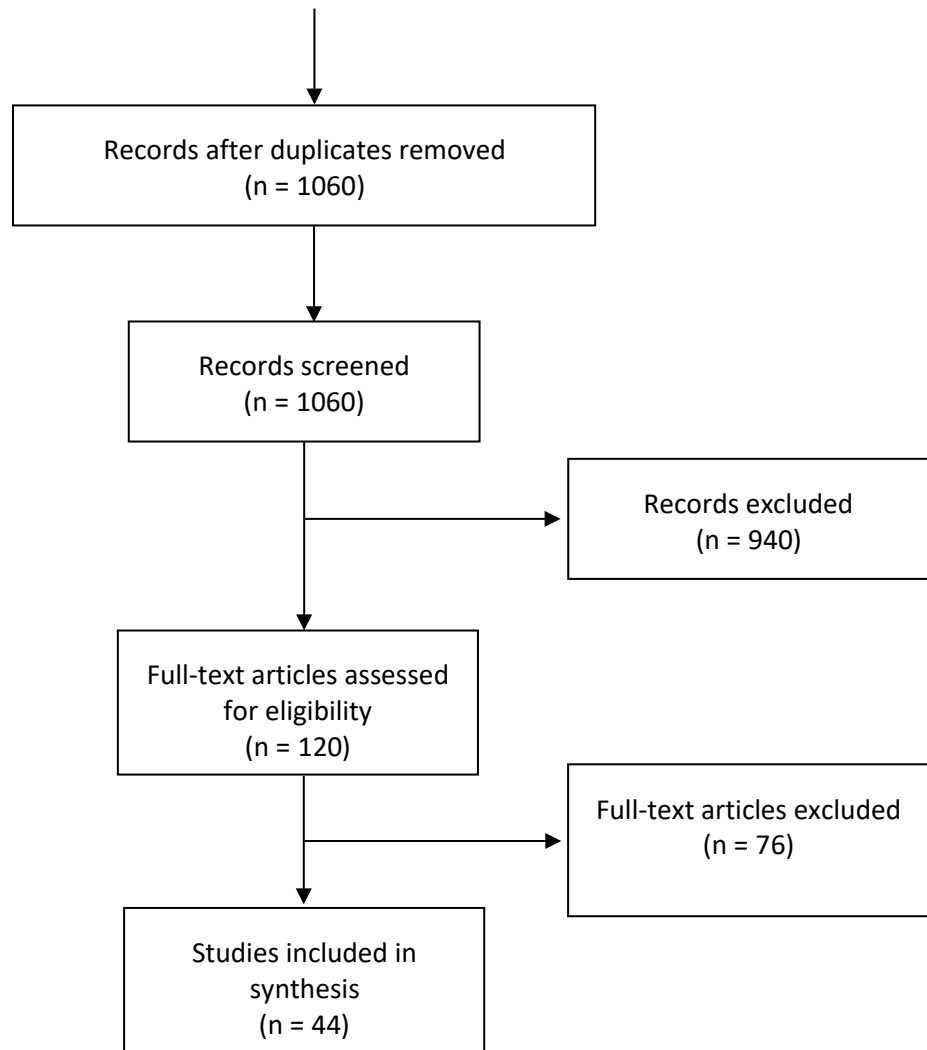
Identification

Screening

Eligibility

Included





From:

Moher D, Liberati A, Tetzlaff J, Altman DG; PRISMA Group. Preferred reporting items for systematic reviews and meta-analyses: the PRISMA statement. PLoS Med. 2009 Jul 21;6(7):e1000097. doi: 10.1371/journal.pmed.1000097

For more information, visit [www.prisma-statement.org](http://www.prisma-statement.org).

