

## Supplementary material

### 1. Search Strategy

Articles that discussed the following three themes together were included:

Theme 1: Gender development: one of the gender development marker like women education, employment, and gender-based violence, representation of women in leadership position or parliament; theme 2: Contraception; theme 3: outcome from maternal or under-five child mortality.

In the end, the search words for all three themes were connected by Boolean search operator, “AND” and restricted to English-only publications from the year 2000 to 2017. A similar search strategy was developed for MEDLINE, EMBASE, PsycINFO, and CINAHL.

An example of keywords used were:

Theme 1 Gender Development	Theme 2 Contraception	Theme 3 Maternal and Child Mortality
(contracep* adj3 (women or girl* or female*), Contraception Behaviour or Contraception, Barrier or Contraception, Postcoital , family planning or Family Planning Services, natural family planning or Natural Family Planning Methods, (contracept* adj3 withdrawal method), (tubal ligation or tubectomy or vasectomy), (contracep* adj3 permanent method*), condom*, (contracep* adj3 long acting), (contracep* adj3 agents), birth control	Gender development, Women's Rights or Socioeconomic Factors or gender equality, Sexism, ((female* or women or girl*) adj3 empower*), (mainstream* adj3 gender), Domestic Violence or Spouse Abuse or Battered Women or Sex Offenses or gender based violence, Intimate Partner Violence, (educat* adj3 (girl* or women or female*)), (literacy rate adj3 (women or girl* or Female*)), (education* status adj3 (women or girl* or Female*)), (primary education adj3 (women or girl* or female*)), (secondary education adj3 (women or girl* or female*)), (mean years of schooling adj3 (women or girl*	Maternal Mortality or maternal death*, maternal mortality rate, perinatal mortality or Infant Mortality or Fetal Death or Perinatal Mortality, Stillbirth, neonatal death, child death, child mortality, under five mortality

	or female*)), mean years of schooling, (literacy adj3 (women or girl* or Female*)), (econom* adj3 (women or girl* or female*)), gender development index, (politic* adj3 (women or female*)), ((women or female*) adj3 representation adj3 politic*), ((women or female*) adj3 member* adj3 parliament),	
--	--	--

## 2. Example search strategy- Medline search results:

#	Searches	Results
1	(contracep* adj3 (women or girl* or female*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	19755
2	Contraception Behavior/ or Contraception, Barrier/ or Contraception/ or Contraception, Postcoital/ or contraception.mp.	48576
3	family planning.mp. or Family Planning Services/	49281
4	natural family planning.mp. or Natural Family Planning Methods/	1052
5	(contracept* adj3 withdrawal method).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	6
6	(tubal ligation or tubectomy or vasectomy).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	7285
7	(contracept* adj3 permanent method*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	68
8	condom.mp. or Condoms/	18081
9	(contracept* adj3 long acting).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1304
10	(contracept* adj3 agents).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	17359
11	birth control.mp. or Contraception/	22724
12	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11	101039
13	gender development.mp.	167
14	Women's Rights/ or Socioeconomic Factors/ or gender equality.mp.	154580
15	sexism.mp. or Sexism/	1691
16	((female* or women or girl*) adj3 empower*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1450
17	(mainstream* adj3 gender).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	102
18	Domestic Violence/ or Spouse Abuse/ or Battered Women/ or Sex Offenses/ or gender based violence.mp.	21449
19	intimate partner violence.mp. or Intimate Partner Violence/	6141
20	(educat* adj3 (girl* or women or female*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	10187
21	((literacy rate adj3 (women or girl* or Female*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	69
22	(education* status adj3 (women or girl* or Female*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	666
23	(primary education adj3 (women or girl* or female*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	113
24	(secondary education adj3 (women or girl* or female*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	127
25	(mean years of schooling adj3 (women or girl* or female*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	2
26	mean years of schooling.mp.	31
27	((literacy adj3 (women or girl* or Female*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	471
28	(econom* adj3 (women or girl* or female*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1438
29	((labour participation or workforce or income) adj3 (women or girl* or female*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	5096
30	gender development index.mp.	18
31	maternal mortality.mp. or Maternal Mortality/	15166
32	Maternal Mortality/ or maternal death*.mp.	14155
33	maternal mortality rate.mp.	880
34	31 or 32 or 33	18315
35	perinatal mortality.mp. or Infant Mortality/ or Fetal Death/ or Perinatal Mortality/	55847
36	stillbirth.mp. or Stillbirth/	9509
37	neonatal death.mp. or Perinatal Death/	5079
38	35 or 36 or 37	64116
39	life expectancy.mp. or Life Expectancy/	37777
40	quality of life.mp. or "Quality of Life"/	299614
41	39 or 40	331242
42	(abortion adj3 contracep*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1422
43	Pregnancy, Unwanted/ or unintended pregnancy.mp. or Pregnancy, Unplanned/	5474

44	42 or 43	6735
45	((politic* adj3 (women or female*)))mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	211
46	((women or female*) adj3 representation adj3 politic*)mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	9
47	((women or female*) adj3 member* adj3 parliament)mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	2
48	45 or 46 or 47	215
49	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 or 28 or 29 or 30 or 48	190551
50	34 or 38 or 41 or 44	413919
51	12 and 49 and 50	1710
52	limit 51 to (english language and yr="1970 -Current")	1548
53	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 or 28 or 29 or 30 or 45 or 46 or 47	190551
54	12 and 34 and 53	393
55	limit 54 to (english language and yr="2000 - 2017")	152
56	34 or 38	77851
57	12 and 53 and 56	742
58	limit 57 to (english language and yr="2000 - 2017")	217