

Supplementary Table 1: Literature search strategy

Database: Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present

Date conducted: 2 October 2017

Strategy:

- 1 Preconception Care/ (1917)
- 2 exp Pregnancy/ (855216)
- 3 exp Pregnancy Complications/ (405775)
- 4 Pregnant Women/ (6515)
- 5 Prenatal Care/ (24637)
- 6 Prenatal Diagnosis/ (35834)
- 7 (antenatal* or pre-natal* or prenatal*).tw,kf. (120088)
- 8 (expect* adj2 (female? or mother? or wom#n)).tw,kf. (3728)
- 9 ((1* or first*) adj2 (tri-mester* or trimester*)).tw,kf. (23473)
- 10 (pre-conception* or preconception*).tw,kf. (4573)
- 11 pregnan*.tw,kf. (477757)
- 12 or/1-11 [Combined MeSH & text words for pregnancy] (1016791)
- 13 exp Vitamin D/ (54287)
- 14 Vitamin D Deficiency/ (13412)
- 15 calcidiol*.tw,kf. (397)
- 16 calciol*.tw,kf. (20)
- 17 calcifediol*.tw,kf. (128)
- 18 cholecalciferol*.tw,kf. (2377)
- 19 hydroxycholecalciferol*.tw,kf. (1377)
- 20 hydroxyvitamin D*.tw,kf. (12499)
- 21 (vitamin D or vitamin D3 or vitamin D\$2).tw,kf. (60203)
- 22 or/13-21 [Combined MeSH & text words for vitamin D] (79566)
- 23 and/12,22 [Combined concepts for pregnancy & vitamin D] (4365)
- 24 meta-analysis.pt. (87537)
- 25 meta-analysis/ or systematic review/ or meta-analysis as topic/ or "meta analysis (topic)"/ or "systematic review (topic)"/ or exp technology assessment, biomedical/ (113240)
- 26 ((systematic* adj3 (review* or overview*)) or (methodologic* adj3 (review* or overview*))).ti,ab,kf,kw. (127445)
- 27 ((quantitative adj3 (review* or overview* or synthes*)) or (research adj3 (integrati* or overview*))).ti,ab,kf,kw. (8559)
- 28 ((integrative adj3 (review* or overview*)) or (collaborative adj3 (review* or overview*)) or (pool* adj3 analy*)).ti,ab,kf,kw. (19993)
- 29 (data synthes* or data extraction* or data abstraction*).ti,ab,kf,kw. (20992)
- 30 (handsearch* or hand search*).ti,ab,kf,kw. (7877)
- 31 (mantel haenszel or peto or der simonian or dersimonian or fixed effect* or latin square*).ti,ab,kf,kw. (21571)
- 32 (met analy* or metanaly* or technology assessment* or HTA or HTAs or technology overview* or technology appraisal*).ti,ab,kf,kw. (7548)
- 33 (meta regression* or metaregression*).ti,ab,kf,kw. (5904)

34 (meta-analy* or metaanaly* or systematic review* or biomedical technology assessment* or bio-medical technology assessment*).mp,hw. (217154)
 35 (medline or cochrane or pubmed or medlars or embase or cinahl).ti,ab,hw. (161733)
 36 (cochrane or (health adj2 technology assessment) or evidence report).jw. (18083)
 37 (meta-analysis or systematic review).mp. [sic – changed .md. to .mp] (200672)
 38 (comparative adj3 (efficacy or effectiveness)).ti,ab,kf,kw. (10906)
 39 (outcomes research or relative effectiveness).ti,ab,kf,kw. (7938)
 40 ((indirect or indirect treatment or mixed-treatment) adj comparison*).ti,ab,kf,kw. (1649)
 41 or/24-40 [CADTH SR search filter | Retrieved from:
<https://www.cadth.ca/resources/finding-evidence/strings-attached-cadths-database-search-filters#syst>] (358374)
 42 and/23,41 [SR filter applied] (187)
 43 remove duplicates from 42 (164)

Database: Wiley Cochrane Library

Date conducted: 2 October 2017

Strategy:

#1 [mh ^"Preconception Care"] 103
 #2 [mh Pregnancy] 5760
 #3 [mh "Pregnancy Complications"] 9364
 #4 [mh ^"Pregnant Women"] 156
 #5 [mh ^"Prenatal Care"] 1332
 #6 [mh ^"Prenatal Diagnosis"] 380
 #7 (antenatal* or "pre-natal*" or prenatal):ti,ab,kw 6295
 #8 (expect* near/2 (female? or mother? or wom?n)):ti,ab,kw 243
 #9 ((1* or first*) near/2 ("tri-mester*" or trimester*)):ti,ab,kw 4141
 #10 ("pre-conception*" or preconception*):ti,ab,kw 307
 #11 pregnan*:ti,ab,kw 36386
 #12 {or #1-#11} 38579
 #13 [mh "Vitamin D"] 2941
 #14 [mh ^"Vitamin D Deficiency"] 617
 #15 calcidiol*:ti,ab,kw 46
 #16 calciol*:ti,ab,kw 1
 #17 calcifediol*:ti,ab,kw 475
 #18 cholecalciferol*:ti,ab,kw 1208
 #19 hydroxycholecalciferol*:ti,ab,kw 338
 #20 "hydroxyvitamin D*":ti,ab,kw 1931
 #21 ("vitamin D" or "vitamin D3" or "vitamin D?"):ti,ab,kw 6774
 #22 {or #13-#21} 7581
 #23 #11 and #22 354
 #24 #11 and #22 in Cochrane Reviews (Reviews and Protocols), Other Reviews and Technology Assessments 14