

**Table S1. Search Strategy for Randomized Controlled Trials Investigating the Effect of
 Vitamin D Supplementation on Depressive Symptoms**

Database	Search Period	Search
MEDLINE Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations	1946 to second week of May 2013 June 1, 2012	1. exp depression/ 2. exp depressive disorders/ 3. depress\$.tw. 4. or/1-3 5. exp vitamin d/ 6. exp Vitamin D Deficiency/ 7. vitamin d.tw. 8. 25-hydroxyvitamin D.tw. 9. Cholecalciferol.tw. 10. Dihydrotachysterol.tw. 11. Ergosterol.tw. 12. or/5-11 13. 4 and 12
CINAHL	1982 to second week of May 2013	S1 (MH "Depression+") S2 TI depress* OR AB depress* S3 S1 or S2 S4 (MH "Vitamin D+") S5 (MH "Vitamin D Deficiency+") S6 TI vitamin d OR AB vitamin d S7 TI 25-hydroxyvitamin D OR AB 25-hydroxyvitamin D S8 TI Cholecalciferol OR AB Cholecalciferol S9 TI Dihydrotachysterol OR AB Dihydrotachysterol S10 TI Ergosterol OR AB Ergosterol S11 S4 or S5 or S6 or S7 or S8 or S9 or S10 S12 S3 and S11
AMED	1985 to second week of May 2013	1. depression/ 2. depress\$.tw. 3. 1 or 2 4. exp vitamin d/ 5. vitamin d.tw. 6. 25-hydroxyvitamin D.tw. 7. Cholecalciferol.tw. 8. Dihydrotachysterol.tw. 9. Ergosterol.tw. 10. or/4-9 11. 3 and 10

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Supplemental Table 1--Continued

Database	Search Period	Search
PsycInfo	1806 to second week of May 2013	1. exp major depression/ 2. "depression (emotion)"/ 3. depress\$.tw. 4. or/1-3 5. exp Vitamin Deficiency Disorders/ 6. exp vitamins/ 7. vitamin therapy/ 8. vitamin d.tw. 9. 25-hydroxyvitamin D.tw. 10. Cholecalciferol.tw. 11. Dihydrotachysterol.tw. 12. Ergosterol.tw. 13. or/5-12 14. 4 and 13
Scopus	Searched May 23, 2012 and weekly thereafter until May 15, 2013	#1 TITLE-ABS_KEY(depress*) #2 TITLE-ABS_KEY("vitamin d" OR "25-hydroxyvitamin D" OR Cholecalciferol OR Dihydrotachysterol OR Ergosterol) #3 #1 AND #2
The Cochrane Library	All databases accessed June 1, 2012 and weekly thereafter until May 15, 2013	#1 MeSH descriptor Depression explode all trees #2 MeSH descriptor Depressive Disorder explode all trees #3 depress*:ti,ab #4 (#1 OR #2 OR #3) #5 MeSH descriptor Vitamin D explode all trees #6 MeSH descriptor Vitamin D Deficiency explode all trees #7 "vitamin d":ti,ab #8 "25-hydroxyvitamin D":ti,ab #9 Cholecalciferol:ti,ab #10 Dihydrotachysterol:ti,ab #11 Ergosterol:ti,ab #12 (#5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11) #13 (#4 AND #12)

Table S2. Risk of Bias in Randomized Controlled Trials Investigating the Effect of Vitamin D Supplementation on Depressive Symptoms

Study, Year (Reference)	Random			Outcome		
	Sequence Generation	Randomization Concealment	Participants Masked	Research Personnel Masked	Assessors Masked	Intent-to-Treat Analyses
Hogie-Lorenzen, 2003 (15)	Unclear	Unclear	High	High	High	High
Jorde et al, 2008 (14)	Unclear	Unclear	Low	Unclear	Low	Low
Dean et al, 2011 (28)	Low	Low	Low	Low	Low	Low
Bertone-Johnson et al, 2012 (27)	Low	Unclear	Low	Unclear	Low	Low
Kjaergaard et al, 2012 (29)	Low	Low	Low	Low	Low	Low
Khoraminy et al, 2012 (26)	Unclear	Unclear	Low	Unclear	Low	High
Mozaffari-Khosravi et al, 2013 (18)	Low	Unclear	High	High	High	High

Figure S1. Summary of Evidence Search and Selection

