

## Supplementary File 1. Sample OVID-MEDLINE search strategy

1. Vitamin D/	48. randomi?ed.ti,ab.
2. Vitamin D?.mp.	49. placebo.ti,ab.
3. 25OHD?.mp.	50. clinical trials as topic.sh.
4. 25 hydroxyvitamin D?.mp.	51. randomly.ti,ab.
5. 25-Hydroxyvitamin D3 1-alpha-Hydroxylase/	52. trial.ti.
6. 25-Hydroxyvitamin D? 1-alpha-Hydroxylase.mp.	53. or/46-52
7. 25 hydroxylase.mp.	54. exp animals/ not exp humans/
8. 24,25OHD?.mp.	55. 53 not 54
9. 24,25-Dihydroxyvitamin D3/	56. Meta-Analysis as Topic/
10. 24,25-Dihydroxyvitamin D?.mp.	57. meta analy\$.tw.
11. exp Cholecalciferol/	58. metaanaly\$.tw.
12. c?olecalciferol.mp.	59. Meta-Analysis/
13. Hydroxycholecalciferol/	60. (systematic adj (review\$1 or overview\$1)).tw.
14. hydroxyc?olecalciferol.mp.	61. exp Review Literature as Topic/
15. Dihydroxycholecalciferol/	62. or/56-61
16. Dihydroxyc?olecalciferol.mp.	63. cochrane.ab.
17. 1 alpha 25OHD.mp.	64. embase.ab.
18. 1a,25OHD?.mp.	65. (psychlit or psyclit).ab.
19. 1-alpha, 25 dihydroxyvitamin D?.mp.	66. (psychinfo or psycinfo).ab.
20. 1a, 25 dihydroxyvitamin D?.mp.	67. (cinahl or cinhal).ab.
21. 1-alpha hydroxylase.mp.	68. science citation index.ab.
22. 1-a, hydroxylase.mp.	69. bids.ab.
23. 1,25 hydroxyvitamin D?.mp.	70. cancerlit.ab.
24. 1,25 dihydroxyvitamin D?.mp.	71. or/63-70
25. 1,25 hydroxyc?olecalciferol.mp.	72. reference list\$.ab.
26. 1,25 dihydroxyc?olecalciferol.mp.	73. bibliograph\$.ab.
27. Calcitriol/	74. hand-search\$.ab.
28. Calcitriol.mp.	75. relevant journals.ab.
29. Calcifediol/	76. manual search\$.ab.
30. calcifediol.mp.	77. or/72-76
31. calciol.mp.	78. selection criteria.ab.
32. calcitretol.mp.	79. data extraction.ab.
33. exp Ergocalciferol/	80. 78 or 79
34. ergocalciferol.mp.	81. Review/
35. ergosterol.mp.	82. 80 and 81
36. Dihydrotachysterol/	83. Comment/
37. dihydrotachysterol.mp.	84. Letter/
38. dihydrocalciol.mp.	85. Editorial/
39. alfalcidol.mp.	86. animal/
40. paricalcitol.mp.	87. human/
41. vitamin D analogue.mp.	88. 86 not (86 and 87)
42. vitamin D analog.mp.	89. or/83-85,88
43. Ostelin.mp.	90. 62 or 71 or 77 or 82
44. Ostelin D?.mp.	91. 90 not 89
45. or/1-44	92. 53 or 91
46. randomi?ed controlled trial.pt.	93. 45 and 92
47. controlled clinical trial.pt.	94. limit 93 to humans