

SUPPLEMENTAL METHODS

Detailed search strategy for the systematic review

PubMed

#1. Vitamin D Supplements

“Vitamin D”[MeSH] OR “Cholecalciferol”[MeSH] OR “ergocalciferols”[MeSH] OR “calcifediol”[MeSH] OR “25-hydroxyvitamin D”[Supplementary Concept] OR vitamin D[tiab] OR 25-hydroxyvitamin D[tiab] OR “25(OH)D”[tiab] OR “25(OH) vitamin D”[tiab] OR cholecalciferol*[tiab] OR ergocalciferol*[tiab] OR calcifediol*[tiab]

#2. Fracture and fall

“Fractures, Bone”[MeSH] OR “Femoral Neck Fractures”[MeSH] OR “Spinal Fractures”[MeSH] OR “Fractures, Compression”[MeSH] OR “Hip Fractures”[MeSH] OR “Femoral Fractures”[MeSH] OR “Osteoporotic Fractures”[MeSH] OR “Accidental Falls”[MeSH] OR Fractur*[tiab] OR Fall*[tiab]

#3. RCT

Randomized Controlled Trial[MeSH] OR randomized controlled trial [pt] OR controlled clinical trial [pt] OR randomized [tiab] OR placebo [tiab]

#4. Children

"child"[MeSH] OR child*[title]

#5. Animal

animals [mh] NOT humans [mh]

(#1 AND #2 AND #3) NOT (#4 OR #5)

EMBASE

#1. Vitamin D Supplements

‘25 hydroxyvitamin D’/exp OR Colecalciferol/exp OR Ergocalciferol/exp OR Calcifediol/exp OR ‘vitamin D’:ti,ab OR ‘25-hydroxyvitamin D’:ti,ab OR ‘25(OH)D’:ti,ab OR ‘25(OH) vitamin D’:ti,ab OR cholecalciferol*:ti,ab OR ergocalciferol*:ti,ab OR calcifediol*:ti,ab

#2. Fracture and fall

Fracture/exp OR Falling/exp OR Fractur*:ti,ab OR fall*:ti,ab

#3. Children

child/exp OR child*:ti,ab

#4. Animal

Animal/exp NOT human/exp

#1 AND #2 AND 'randomized controlled trial'/de NOT (#3 OR #4)

Cochrane Library

#1. Vitamin D Supplements

[mh “Vitamin D”] OR [mh Cholecalciferol] OR [mh ergocalciferols] OR [mh calcifediol] OR vitamin D:ti,ab,kw OR “25-hydroxyvitamin D”:ti,ab,kw OR “25(OH)D”:ti,ab,kw OR (25(OH) vitamin D):ti,ab,kw OR cholecalciferol*:ti,ab,kw OR ergocalciferol*:ti,ab,kw OR calcifediol*:ti,ab,kw

#. Fracture and fall

[mh “Fractures, Bone”] OR [mh “Femoral Neck Fractures”] OR [mh “Spinal Fractures”] OR [mh “Fractures, Compression”] OR [mh “Hip Fractures”] OR [mh “Femoral Fractures”] OR [mh “Osteoporotic Fractures”] OR [mh “Accidental Falls”] OR Fractur*:ti,ab,kw OR Fall*:ti,ab,kw

#RCT

[mh Randomized Controlled Trial] OR [randomized controlled trial [pt] OR controlled clinical trial [pt] OR randomized:ti,ab,kw OR placebo:ti,ab,kw

#4. Children

[mh "child"] OR child*:ti,ab,kw

#5. Animal

[mh animals] NOT [mh humans]

(#1 AND #2 AND #3) NOT (#4 OR #5)