

Appendix 1. Search strategy for identification of studies

The electronic bibliographical databases Medline and Embase were searched via OVID, CENTRAL (Cochrane) and Proquest: theses and dissertations with key words relating to dietary patterns, bone mineral density and fracture. The search was limited to adults, English language and human subjects. The full search strategy for each database is given below.

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) <1946 to Present> Date Run: 12/05/17

1	exp feeding behavior/
2	"diet* pattern*".tw.
3	"diet* factor*".tw.
4	"diet* habit*".tw.
5	"eat* habit*".tw.
6	"eat* behavi?or*".tw.
7	"eat* pattern*".tw.
8	"food habit*".tw.
9	"food pattern*".tw.
10	"feed* behavi?or*".tw.
11	"feed* pattern*".tw.
12	"nutri* pattern*".tw.
13	"nutri* habit*".tw.
14	or/1-13
15	exp bone density/
16	"bone densit*".tw.
17	"bone mineral densit*".tw.
18	"bone density test*".tw.
19	BMD.tw.
20	"BMD test*".tw.
21	"bone loss*".tw.
22	"bone mass*".tw.
23	"bone disease*".tw.
24	BMC.tw.
25	"bone mineral content*".tw.
26	exp osteoporosis/
27	osteoporo*.tw.
28	or/15-27
29	exp fracture, bone/
30	fracture*.tw.
31	"bone fracture*".tw.
32	"broken bone*".tw.
33	"osteoporo* fracture*".tw.
34	exp osteoporotic fractures/
35	or/29-34
36	28 or 35
37	14 and 36
38	limit 37 to (english language and humans)
39	limit 38 to "all adult (19 plus years)

Database: Ovid Embase <1974 to 2017 May 11> Date Run: 12/05/17

1	exp feeding behavior/
2	"diet* pattern*".tw.
3	"diet* factor*".tw.
4	"diet* habit*".tw.
5	"eat* habit*".tw.
6	"eat* pattern*".tw.
7	"eat* behavi?or*".tw.
8	"food habit*".tw.
9	"food pattern*".tw.
10	"feed* behavi?or*".tw.
11	"feed* pattern*".tw.
12	"nutri* pattern*".tw.
13	"nutri* habit*".tw.
14	or/1-13
15	exp bone density/
16	"bone densit*".tw.
17	"bone mineral densit*".tw.
18	"bone density test*".tw.
19	BMD.tw.
20	"BMD test*".tw.
21	"bone loss*".tw.
22	"bone mass*".tw.
23	"bone disease*".tw.
24	BMC.tw.
25	"bone mineral content*".tw.
26	exp osteoporosis/
27	osteoporo*.tw.
28	exp bone densitometry/
29	or/15-28
30	exp fracture/
31	fracture*.tw.
32	"bone fracture*".tw.
33	"broken bone*".tw.
34	"osteoporo* fracture*".tw.
35	exp osteoporotic fractures/
36	exp fragility fracture/
37	"fragility fracture*".tw.
38	or/30-37
39	29 or 38
40	14 and 39
41	limit 40 to (human and english language)
42	limit 41 to (adult <18 to 64 years> or aged <65+ years>)

Database: Central (Cochrane)**Date Run: 13/05/17 06:06:41.96**

ID	Search	Hits
#1	MeSH descriptor: [Feeding Behavior] explode all trees	
#2	"diet* pattern*"	
#3	"diet* factor*"	
#4	"diet* habit*"	
#5	"eat* habit*"	
#6	"eat* behavi?or*"	
#7	"eat* pattern*"	
#8	"food* habit*"	
#9	"food* pattern*"	
#10	"feed* behavi?or*"	
#11	"feed* pattern*"	
#12	"nutri* pattern*"	
#13	"nutri* habit*"	
#14	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13	
#15	MeSH descriptor: [Bone Density] explode all trees	
#16	"bone densit*"	
#17	"bone mineral densit*"	
#18	"bone density test*"	
#19	BMD	
#20	"BMD test*"	
#21	"bone loss*"	
#22	"bone mass*"	
#23	"bone disease*"	
#24	BMC	
#25	"bone mineral content*"	
#26	MeSH descriptor: [Osteoporosis] explode all trees	
#27	osteopor*"	
#28	#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	
#29	MeSH descriptor: [Fractures, Bone] explode all trees	
#30	fracture*"	
#31	"bone fracture*"	
#32	"broken bone*"	
#33	"osteopor* fracture*"	
#34	MeSH descriptor: [Osteoporotic Fractures] explode all trees	
#35	#29 or #30 or #31 or #32 or #33 or #34	
#36	#28 or #35	
#37	#14 and #36	

Database: Proquest Dissertations & Theses A&I <1927-2017 May 13>

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("diet* pattern*" OR "diet* factor*" OR "diet* habit*" OR "eat* pattern*" OR "eat* habit*" OR "eat* behavi?or*" OR "food* habit*" OR "food* pattern*" OR "feed* behavi?or*" OR "feed* pattern*" OR "nutri* pattern*" OR "nutri* habit*")

AND (("bone densit*" OR "bone mineral densit*" OR "bone density test*" OR "bmd" OR "bmd test*" OR "bone mineral content*" OR "bmc" OR "bone loss*" OR "bone mass*" OR "bone disease*" OR "osteopor*") OR ("fracture*" OR "bone fracture*" OR "broken bone*" OR "osteopor* fracture*"))