

## Search term

### Appendix 1. Web of Science search strategy

Searched 2025/10/3

#1 (((ALL=(Diabetes Mellitus, Type 2)) OR ALL=(Diabetes Mellitus, Type II)) OR ALL=(Type 2 Diabetes Mellitus)) OR ALL=(Type 2 Diabetes)) OR ALL=(Diabetes, Type 2)

#2 ((((((ALL=(Bone Density)) OR ALL=(Bone Densities)) OR ALL=(Density, Bone)) OR ALL=(Bone Mineral Density)) OR ALL=(Bone Mineral Densities)) OR ALL=(Density, Bone Mineral)) OR ALL=(Bone Mineral Content)

#3. ((((((((((ALL=(Fractures, Bone)) OR ALL=(Bone Fracture)) OR ALL=(Fracture, Bone)) OR ALL=(Bone Fractures)) OR ALL=(Broken Bones)) OR ALL=(Bone, Broken)) OR ALL=(Bones, Broken)) OR ALL=(Broken Bone)) OR ALL=(Spiral Fractures)) OR ALL=(Fracture, Spiral)) OR ALL=(Fractures, Spiral)

#4 ((((((((((((((((((ALL=(Osteoporotic Fractures)) OR ALL=(Fracture, Osteoporotic)) OR ALL=(Fractures, Osteoporotic)) OR ALL=(Osteoporotic Fracture)) OR ALL=(Spinal Fractures)) OR ALL=(Fracture, Spinal)) OR ALL=(Fractures, Spinal)) OR ALL=(Spinal Fracture)) OR ALL=(Hangman Fracture)) OR ALL=(Fracture, Hangman)) OR ALL=(Hangmans Fracture)) OR ALL=(Hip Fractures)) OR ALL=(Fractures, Hip)) OR ALL=(Intertrochanteric Fractures)) OR ALL=(Femoral Trochlear Fractures)) OR ALL=(Femoral Trochlear Fracture)) OR ALL=(Fragility fracture)

#5 #2 OR #3 OR #4

#6 #5 AND #1

#7 (TS=(Meta-Analysis)) OR TS=(meta)

#8 #7 AND #6 (244)



### **Appendix 3. Cochranelibrary search strategy**

Searched 2025/10/3

#1 MeSH descriptor: [Diabetes Mellitus, Type 2] explode all tree

#2 ("bone density"):ti,ab,k

#3 MeSH descriptor: [Bone Density] explode all trees

#4 MeSH descriptor: [Fractures, Bone] explode all trees

#5 MeSH descriptor: [Osteoporotic Fractures] explode all trees

#6 (Osteoporotic Fractures):ti,ab,kw

#7 (Fractures, Bone):ti,ab,kw

#8 (Diabetes Mellitus, Type 2):ti,ab,k

#9 #2 OR #3 OR #4 OR #5 OR #6 OR #7

#10 #1 OR #8

#11 #9 AND #10

#12 ("meta analysis"):ti,ab,kw

#13 ("meta analysis"):ti,ab,kw

#14 #12 OR #13

#15 #11 and #14 (13)