

SUPPLEMENTARY APPENDIX 5: Search Strategies

2022 American College of Rheumatology Guideline for the Prevention and Treatment of Glucocorticoid-Induced Osteoporosis

April 22, 2016 through January 24, 2022 for all questions other than sequential therapy. Sequential therapy had not been included in the original search but was searched for this guideline, from January 1, 2013 through January 24, 2022. Sequential therapies were not included in the 2017 GIOP guideline, hence the earlier start date for these therapies in this guideline's searching.

OID MEDLINE

- 1 exp Glucocorticoids/ 199429
- 2 exp Steroids/ 884250
- 3 (glucocorticoid\$ or steroid\$ or methylprednisilone or prednisone or prednisolone).tw,kw. 353764
- 4 or/1-3 1089408
- 5 exp Osteoporosis/ 58924
- 6 exp Bone Diseases, Metabolic/ci or (exp Bone Diseases, Metabolic/ and ci.fs.) 6671
- 7 exp Bone Diseases/ci 10591
- 8 exp Bone Resorption/ 40385
- 9 exp "Bone and Bones"/de 21788
- 10 bone resorption.tw,kw. 27101
- 11 (osteop?enia or osteoporo\$).tw,kw. 89116
- 12 exp Fractures, Bone/ 195436
- 13 fracture\$.tw,kw. 279085
- 14 Bone Density/ 56925
- 15 (bone adj (density or mass or mineral\$ or demineral\$ or loss or decalcif\$ or strength)).tw,kw. 99298
- 16 BMD.tw,kw. 31500
- 17 exp Densitometry/ 36621
- 18 (densitometry or dexa or dxa).tw,kw. 26213

19 (fracture adj2 (assessment or reassessment or re-assessment)).tw,kw. 2062

20 (FRAX or VFA).tw,kw. 5940

21 "T score".tw,kw. 5142

22 "x-ray absorptiometry".tw,kw. 25037

23 or/5-22 521876

24 4 and 23 34738

25 exp Calcium Compounds/ 78712

26 Calcium/ 273672

27 calcium.tw,kw. 392839

28 or/25-27 557805

29 exp Vitamin D/ 63477

30 ("Vitamin D\$" or cholecalciferol\$ or hydroxycholecalciferol\$ or calcifediol\$ or dihydroxycholecalciferol\$ or calcitriol\$).tw,kw. 82238

31 (ergocalciferol\$ or dihydrotachysterol\$ or rocaltrol\$).tw,kw. 1305

32 ("25-Hydroxyvitamin D 2" or "24,25-Dihydroxyvitamin D 3" or "1,25-dihydroxyvitamin D3" or "25-dihydroxyvitamin D3").tw,kw. 7436

33 ("1,25-dihydroxycholecalciferol" or "25-dihydroxycholecalciferol").tw,kw. 1423

34 or/29-33 98075

35 28 and 34 33355

36 24 and 35 8570

37 (lifestyle adj (modif\$ or change\$)).tw,kw. 16348

38 exp exercise/ 220188

39 exp sports/ 198604

40 resistance training/ 10450

41 physical fitness/28522

42 (strengthen\$ or isometric\$ or isotonic\$ or isokinetic\$ or aerobic\$ or physical fitness or weight bearing or weight lifting).tw,kw.274853

43 accidental falls/ and (risk assessment/ or risk factors/) 7518

44 (fall\$ adj (risk assess\$ or risk profile)).tw,kw. 879

45 (fall adj (risk screening or risk index)).tw,kw. 194

46 smoking cessation/ 30710
 47 "tobacco use cessation".tw,kw. 329
 48 alcohol drinking/ 71023
 49 (alcohol adj2 (reduct\$ or moderat\$)).tw,kw. 5856
 50 Sunlight/ 16317
 51 (exposure adj sun\$).tw,kw. 150
 52 (nutritional sciences/ or dietetics/) and exp Counseling/ 512
 53 ((diet\$ or nutrition\$) adj counsel?ing).tw,kw. 4039
 54 or/37-52 688199
 55 exp Diphosphonates/ 26976
 56 bisphosphonate\$.tw,kw. 18366
 57 Alendronate/ 3864
 58 alendronate\$.tw,kw. 4926
 59 Fosamax.tw. 157
 60 risedronate\$.tw,kw. 1783
 61 Actonel.tw,kw. 41
 62 Atelvia.tw,kw. 5
 63 ibandronate\$.tw,kw. 1049
 64 Boniva.tw,kw. 11
 65 zoledronic acid.tw,kw. 3948
 66 (Reclast or Zometa).tw,kw. 153
 67 Raloxifene/ 2711
 68 raloxifene.tw,kw. 3434
 69 Evista.tw,kw. 70
 70 Teriparatide/ 2102
 71 teriparatide.tw,kw. 2078
 72 Forteo.tw,kw. 59
 73 denosumab.tw,kw. 3417
 74 romosozumab.mp. 311

75 evenity.mp. 15

76 (AMG 785 or AMG785 or AMG-785 or romosozumab-aqqg or CDP 7851 or CDP7851 or CDP-
7851).tw,kw. 16

77 ABALOPARATIDE.mp. 193

78 (tymlos or BA058).tw,kw. 10

79 or/54-78 729281

80 (24 and 35) or (24 and 35 and 79) 8570

81 12 or 13 322889

82 risk assessment/ or (risk assess\$ or risk reassess\$ or risk profile\$ or risk index).tw,kw. 350093

83 81 and 82 7710

84 or/17-18,20-22 65653

85 82 and 84 2715

86 19 or 83 or 85 9231

87 4 and 86 690

88 80 or 87 9080

89 exp animals/ not humans.sh. 4908071

90 88 not 89 7886

91 limit 90 to english language 6831

92 limit 91 to case reports 356

93 limit 91 to comment 148

94 limit 91 to editorial 68

95 limit 91 to letter 148

96 limit 91 to newspaper article 2

97 or/92-96 582

98 91 not 97 6249

99 limit 88 to in process 7

100 98 or 99 6249

101 limit 100 to dt=20160422-20211030 1031

102 (sequential adj3 therap*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] 3500

103 (combination adj3 therap*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] 232408

104 102 or 103 234939

105 104 not 89 217386

106 limit 105 to english language 182453

107 106 not 97 182412

108 limit 107 to dt=20030101-20211101 123416

109 4 and 108 16851

110 or/70-73,77-78 6089

111 109 and 110 45

112 101 or 111 1072

PUBMED

(((((("GLUCOCORTICOID"[MESH TERMS] OR "STEROID"[MESH TERMS] OR ("GLUCOCORTICOID"[TEXT WORD] OR "STEROID"[TEXT WORD] OR "METHYLPREDNISILONE"[TEXT WORD] OR "PREDNISONE"[TEXT WORD] OR "PREDNISOLONE"[TEXT WORD])) AND ("FRACTURE ASSESSMENT"[TEXT WORD] OR ("FRACTUR"[ALL FIELDS] OR "FRACTURAL"[ALL FIELDS] OR "FRACTURE S"[ALL FIELDS] OR "FRACTURES, BONE"[MESH TERMS] OR ("FRACTURES"[ALL FIELDS] AND "BONE"[ALL FIELDS]) OR "BONE FRACTURES"[ALL FIELDS] OR "FRACTURE"[ALL FIELDS] OR "FRACTURED"[ALL FIELDS] OR "FRACTURES"[ALL FIELDS] OR "FRACTURING"[ALL FIELDS]) AND "REASSESSMENT"[TITLE/ABSTRACT]) OR ("FRACTUR"[ALL FIELDS] OR "FRACTURAL"[ALL FIELDS] OR "FRACTURE S"[ALL FIELDS] OR "FRACTURES, BONE"[MESH TERMS] OR ("FRACTURES"[ALL FIELDS] AND "BONE"[ALL FIELDS]) OR "BONE FRACTURES"[ALL FIELDS] OR "FRACTURE"[ALL FIELDS] OR "FRACTURED"[ALL FIELDS] OR "FRACTURES"[ALL FIELDS] OR "FRACTURING"[ALL FIELDS]) AND "REASSESSMENT"[TITLE/ABSTRACT]) OR ((("DENSITOMETRY"[MESH TERMS] OR ("DENSITOMETRY"[TEXT WORD] OR "DEXA"[TEXT WORD] OR "DXA"[TEXT WORD]) OR ("FRAX"[TEXT WORD] OR "VFA"[TEXT WORD]) OR "T SCORE"[ALL FIELDS] OR "X-RAY ABSORPTIOMETRY"[ALL FIELDS]) AND ("RISK ASSESSMENT"[MESH TERMS] OR ("RISK ASSESS"[TEXT WORD] OR "RISK REASSESS"[TEXT WORD] OR "RISK PROFILE"[TEXT WORD] OR "RISK INDEX"[TEXT WORD]))) OR ("FRACTURES, BONE"[MESH TERMS] AND "FRACTURE"[TEXT WORD] AND ("RISK ASSESSMENT"[MESH TERMS] OR ("RISK ASSESS"[TEXT WORD] OR "RISK REASSESS"[TEXT WORD] OR "RISK PROFILE"[TEXT WORD] OR ("RISK"[MESH TERMS] OR "RISK"[ALL FIELDS]) AND ("ABSTRACTING

AND INDEXING"[MESH TERMS] OR ("ABSTRACTING"[ALL FIELDS] AND "INDEXING"[ALL FIELDS]) OR "ABSTRACTING AND INDEXING"[ALL FIELDS] OR "INDEX"[ALL FIELDS] OR "INDEXED"[ALL FIELDS] OR "INDEXES"[ALL FIELDS] OR "INDEXING"[ALL FIELDS] OR "INDEXATION"[ALL FIELDS] OR "INDEXATIONS"[ALL FIELDS] OR "INDEXE"[ALL FIELDS] OR "INDEXER"[ALL FIELDS] OR "INDEXERS"[ALL FIELDS] OR "INDEXS"[ALL FIELDS]) AND ("TEXT MESSAGING"[MESH TERMS] OR ("TEXT"[ALL FIELDS] AND "MESSAGING"[ALL FIELDS]) OR "TEXT MESSAGING"[ALL FIELDS] OR "TEXT"[ALL FIELDS]) AND ("WORD N Y 1945"[JOURNAL] OR "WORD"[ALL FIELDS])))) OR (((("GLUCOCORTICOID"[MESH TERMS] OR "STEROIDS"[MESH TERMS] OR ("GLUCOCORTICOID"[TEXT WORD] OR "STEROID"[TEXT WORD] OR "METHYLPREDNISILONE"[TEXT WORD] OR "PREDNISONE"[TEXT WORD] OR "PREDNISOLONE"[TEXT WORD])) AND ("OSTEOPOROSIS, POSTMENOPAUSAL"[MESH TERMS] OR "OSTEOPOROSIS"[MESH TERMS] OR "BONE DISEASES, METABOLIC/CHEMICALLY INDUCED"[MESH TERMS] OR "BONE DISEASES/CHEMICALLY INDUCED"[MESH TERMS] OR "BONE RESORPTION"[MESH TERMS] OR "BONE AND BONES/DRUG EFFECTS"[MESH TERMS] OR "BONE RESORPTION"[TEXT WORD] OR ("OSTEOPAENIA"[TEXT WORD] OR "OSTEOPENIA"[TEXT WORD] OR "OSTEOPORO"[TEXT WORD]) OR "FRACTURES, BONE"[MESH TERMS] OR "FRACTURE"[TEXT WORD] OR "BONE DENSITY"[MESH TERMS] OR ("BONE DENSITY"[TEXT WORD] OR "BONE MASS"[TEXT WORD] OR "BONE MINERAL"[TEXT WORD] OR "BONE DEMINERAL"[TEXT WORD] OR "BONE LOSS"[TEXT WORD] OR "BONE DECALCIF"[TEXT WORD] OR "BONE STRENGTH"[TEXT WORD]) OR "BMD"[TEXT WORD] OR "DENSITOMETRY"[MESH TERMS] OR ("DENSITOMETRY"[TEXT WORD] OR "DEXA"[TEXT WORD] OR "DXA"[TEXT WORD]) OR ("FRACTURE ASSESSMENT"[TEXT WORD] OR ("FRACTUR"[ALL FIELDS] OR "FRACTURAL"[ALL FIELDS] OR "FRACTURE S"[ALL FIELDS] OR "FRACTURES, BONE"[MESH TERMS] OR ("FRACTURES"[ALL FIELDS] AND "BONE"[ALL FIELDS]) OR "BONE FRACTURES"[ALL FIELDS] OR "FRACTURE"[ALL FIELDS] OR "FRACTURED"[ALL FIELDS] OR "FRACTURES"[ALL FIELDS] OR "FRACTURING"[ALL FIELDS]) AND "REASSESSMENT"[TEXT WORD]) OR ("FRACTUR"[ALL FIELDS] OR "FRACTURAL"[ALL FIELDS] OR "FRACTURE S"[ALL FIELDS] OR "FRACTURES, BONE"[MESH TERMS] OR ("FRACTURES"[ALL FIELDS] AND "BONE"[ALL FIELDS]) OR "BONE FRACTURES"[ALL FIELDS] OR "FRACTURE"[ALL FIELDS] OR "FRACTURED"[ALL FIELDS] OR "FRACTURES"[ALL FIELDS] OR "FRACTURING"[ALL FIELDS]) AND "REASSESSMENT"[TEXT WORD])) OR ("FRAX"[TEXT WORD] OR "VFA"[TEXT WORD]) OR "T SCORE"[TEXT WORD] OR "X-RAY ABSORPTIOMETRY"[TEXT WORD]) AND (("CALCIUM COMPOUNDS"[MESH TERMS] OR "CALCIUM"[MESH TERMS] OR "CALCIUM"[TEXT WORD]) AND ("VITAMIN D"[MESH TERMS] OR "ERGOCALCIFEROLS"[MESH TERMS] OR ("VITAMIN D"[TEXT WORD] OR "CHOLECALCIFEROL"[TEXT WORD] OR "HYDROXYCHOLECALCIFEROL"[TEXT WORD] OR "CALCIFEDIOL"[TEXT WORD] OR "DIHYDROXYCHOLECALCIFEROL"[TEXT WORD] OR "CALCITRIOL"[ALL FIELDS]) OR ("ERGOCALCIFEROL"[TEXT WORD] OR "DIHYDROTACHYSTEROL"[TEXT WORD] OR "ROCALTROL"[TEXT WORD]) OR "25-HYDROXYVITAMIN D 2"[TEXT WORD] OR "24 25 DIHYDROXYVITAMIN D 3"[TEXT WORD] OR "1 25 DIHYDROXYVITAMIN D3"[TEXT WORD] OR "25 DIHYDROXYVITAMIN D3"[TEXT WORD] OR ("1 25 DIHYDROXYCHOLECALCIFEROL"[TEXT WORD] OR "25 DIHYDROXYCHOLECALCIFEROL"[TEXT WORD])))) OR ((("GLUCOCORTICOID"[MESH TERMS] OR "STEROIDS"[MESH TERMS] OR ("GLUCOCORTICOID"[TEXT WORD] OR "STEROID"[TEXT WORD] OR "METHYLPREDNISILONE"[TEXT WORD] OR "PREDNISONE"[TEXT WORD] OR "PREDNISOLONE"[TEXT WORD])) AND ("OSTEOPOROSIS, POSTMENOPAUSAL"[MESH TERMS] OR "OSTEOPOROSIS"[MESH TERMS] OR "BONE DISEASES, METABOLIC/CHEMICALLY INDUCED"[MESH TERMS] OR "BONE DISEASES/CHEMICALLY INDUCED"[MESH TERMS] OR "BONE RESORPTION"[MESH TERMS] OR "BONE AND BONES/DRUG EFFECTS"[MESH TERMS] OR "BONE RESORPTION"[TEXT WORD] OR ("OSTEOPAENIA"[TEXT WORD] OR "OSTEOPENIA"[TEXT WORD] OR "OSTEOPORO"[TEXT WORD]) OR

"FRACTURES, BONE"[MESH TERMS] OR "FRACTURE*"[TEXT WORD] OR "BONE DENSITY"[MESH TERMS] OR ("BONE DENSITY"[TEXT WORD] OR "BONE MASS"[TEXT WORD] OR "BONE MINERAL*"[TEXT WORD] OR "BONE DEMINERAL*"[TEXT WORD] OR "BONE LOSS"[TEXT WORD] OR "BONE DECALCIF*"[TEXT WORD] OR "BONE STRENGTH"[TEXT WORD]) OR "BMD"[TEXT WORD] OR "DENSITOMETRY"[MESH TERMS] OR ("DENSITOMETRY"[TEXT WORD] OR "DEXA"[TEXT WORD] OR "DXA"[TEXT WORD]) OR ("FRACTURE ASSESSMENT"[TEXT WORD] OR (("FRACTUR"[ALL FIELDS] OR "FRACTURAL"[ALL FIELDS] OR "FRACTURE S"[ALL FIELDS] OR "FRACTURES, BONE"[MESH TERMS] OR ("FRACTURES"[ALL FIELDS] AND "BONE"[ALL FIELDS]) OR "BONE FRACTURES"[ALL FIELDS] OR "FRACTURE"[ALL FIELDS] OR "FRACTURED"[ALL FIELDS] OR "FRACTURES"[ALL FIELDS] OR "FRACTURING"[ALL FIELDS]) AND "REASSESSMENT"[TEXT WORD]) OR (("FRACTUR"[ALL FIELDS] OR "FRACTURAL"[ALL FIELDS] OR "FRACTURE S"[ALL FIELDS] OR "FRACTURES, BONE"[MESH TERMS] OR ("FRACTURES"[ALL FIELDS] AND "BONE"[ALL FIELDS]) OR "BONE FRACTURES"[ALL FIELDS] OR "FRACTURE"[ALL FIELDS] OR "FRACTURED"[ALL FIELDS] OR "FRACTURES"[ALL FIELDS] OR "FRACTURING"[ALL FIELDS]) AND "REASSESSMENT"[TEXT WORD])) OR ("FRAX"[TEXT WORD] OR "VFA"[TEXT WORD]) OR "T SCORE"[TEXT WORD] OR "X-RAY ABSORPTIOMETRY"[TEXT WORD]) AND (("CALCIUM COMPOUNDS"[MESH TERMS] OR "CALCIUM"[MESH TERMS] OR "CALCIUM"[TEXT WORD]) AND ("VITAMIN D"[MESH TERMS] OR "ERGOCALCIFEROLS"[MESH TERMS] OR ("VITAMIN D*"[TEXT WORD] OR "CHOLECALCIFEROL*"[TEXT WORD] OR "HYDROXYCHOLECALCIFEROL*"[TEXT WORD] OR "CALCIFEDIOL*"[TEXT WORD] OR "DIHYDROXYCHOLECALCIFEROL*"[TEXT WORD] OR "CALCITRIOL*"[ALL FIELDS]) OR ("ERGOCALCIFEROL*"[TEXT WORD] OR "DIHYDROTACHYSTEROL*"[TEXT WORD] OR "ROCALTROL*"[TEXT WORD]) OR "25-HYDROXYVITAMIN D 2"[TEXT WORD] OR "24 25 DIHYDROXYVITAMIN D 3"[TEXT WORD] OR "1 25 DIHYDROXYVITAMIN D3"[TEXT WORD] OR "25 DIHYDROXYVITAMIN D3"[TEXT WORD] OR ("1 25 DIHYDROXYCHOLECALCIFEROL"[TEXT WORD] OR "25 DIHYDROXYCHOLECALCIFEROL"[TEXT WORD])) AND ("LIFESTYLE MODIF*"[TEXT WORD] OR "LIFESTYLE CHANGE*"[TEXT WORD] OR "EXERCISE"[MESH TERMS] OR "SPORTS"[MESH TERMS] OR "RESISTANCE TRAINING"[MESH TERMS] OR "PHYSICAL FITNESS"[MESH TERMS] OR ("STRENGTHENING"[TEXT WORD] OR "ISOMETRIC*"[TEXT WORD] OR "ISOTONIC*"[TEXT WORD] OR "ISOKINETIC*"[TEXT WORD] OR "AEROBIC*"[TEXT WORD] OR "PHYSICAL FITNESS"[TEXT WORD] OR "WEIGHT BEARING"[TEXT WORD] OR "WEIGHT LIFTING"[TEXT WORD]) OR ("ACCIDENTAL FALLS"[MESH TERMS] AND ("RISK ASSESSMENT"[MESH TERMS] OR ("RISK"[ALL FIELDS] AND "ASSESSMENT"[ALL FIELDS]) OR "RISK ASSESSMENT"[ALL FIELDS] OR "RISK FACTORS"[MESH TERMS])) OR "FALL RISK ASSESSMENT"[TEXT WORD] OR ("FALL RISK SCREENING"[TEXT WORD] OR "FALL RISK INDEX"[TEXT WORD]) OR "SMOKING CESSATION"[MESH TERMS] OR "TOBACCO USE CESSATION"[ALL FIELDS] OR "ALCOHOL DRINKING"[MESH TERMS] OR ("ALCOHOL REDUCTION"[TEXT WORD] OR "ALCOHOL MODERATION"[TEXT WORD]) OR "SUNLIGHT"[MESH TERMS] OR "SUN EXPOSURE"[TEXT WORD] OR (("NUTRITIONAL SCIENCES"[MESH TERMS] OR ("NUTRITIONAL"[ALL FIELDS] AND "SCIENCES"[ALL FIELDS]) OR "NUTRITIONAL SCIENCES"[ALL FIELDS]) AND "COUNSELING"[TEXT WORD]) OR ("DIET COUNSELING"[TEXT WORD] OR "DIET COUNSELLING"[TEXT WORD] OR "NUTRITION COUNSELING"[TEXT WORD] OR "NUTRITION COUNSELLING"[TEXT WORD]) OR ("DIPHOSPHONATES"[MESH TERMS] OR "BISPHOSPHONATE*"[TEXT WORD] OR "ALENDRONATE"[MESH TERMS] OR "ALENDRONATE"[TEXT WORD] OR "FOSAMAX"[TEXT WORD] OR "RISEDRONATE*"[TEXT WORD] OR "ACTONEL"[TEXT WORD] OR "ATELVIA"[TEXT WORD] OR "IBANDRONATE*"[TEXT WORD] OR "BONIVA"[TEXT WORD] OR "ZOLEDRONIC ACID*"[TEXT WORD] OR ("RECLAST"[TEXT WORD] OR "ZOMETA"[TEXT WORD]) OR "RALOXIFENE HYDROCHLORIDE"[MESH TERMS] OR "RALOXIFENE"[TEXT WORD] OR "EVISTA"[TEXT WORD] OR "TERIPARATIDE"[MESH TERMS] OR "TERIPARATIDE"[TEXT WORD]

OR "FORTEO"[TEXT WORD] OR "DENOSUMAB"[TEXT WORD] OR "ABALOPARATIDE"[SUPPLEMENTARY CONCEPT] OR "ABALOPARATIDE"[TITLE/ABSTRACT] OR "TYMLOS"[TITLE/ABSTRACT] OR "BA058"[TITLE/ABSTRACT] OR "ROMOSOZUMAB"[SUPPLEMENTARY CONCEPT] OR "ROMOSOZUMAB*"[TITLE/ABSTRACT] OR "AMG 785"[ALL FIELDS] OR "ROMOSOZUMAB"[SUPPLEMENTARY CONCEPT] OR "ROMOSOZUMAB"[ALL FIELDS] OR "AMG785"[ALL FIELDS] OR "AMG 785"[ALL FIELDS] OR "EVENITY"[TEXT WORD] OR "ROMOSOZUMAB"[SUPPLEMENTARY CONCEPT] OR "ROMOSOZUMAB"[ALL FIELDS] OR "CDP7851"[ALL FIELDS] OR "ROMOSOZUMAB"[SUPPLEMENTARY CONCEPT] OR "ROMOSOZUMAB"[ALL FIELDS])))) NOT ("ANIMALS"[MESH TERMS] NOT "HUMANS"[MESH TERMS])) AND "ENGLISH"[LANGUAGE]) NOT (("CASE REPORTS"[PUBLICATION TYPE] OR "COMMENT"[PUBLICATION TYPE] OR "EDITORIAL"[PUBLICATION TYPE] OR "LETTER"[PUBLICATION TYPE] OR "NEWSPAPER ARTICLE"[PUBLICATION TYPE]) AND "ENGLISH"[LANGUAGE])) AND 2016/04/22:3000/01/01[DATE - PUBLICATION] AND (("INPROCESS"[FILTER] AND 2016/04/22:3000/01/01[DATE - PUBLICATION]) OR "INPROCESS"[FILTER] OR "PUBMEDNOTMEDLINE"[FILTER] OR "PUBLISHER"[FILTER])

OR

("GLUCOCORTICIDS"[MESH TERMS] OR "STEROIDS"[MESH TERMS] OR "GLUCOCORTICOID*"[TEXT WORD] OR "STEROID*"[TEXT WORD] OR "METHYLPREDNISILONE"[TEXT WORD] OR "PREDNISONE"[TEXT WORD] OR "PREDNISOLONE"[TEXT WORD]) AND (((("SEQUENTIAL THERAP*"[TEXT WORD] OR "COMBINATION THERAP*"[TEXT WORD]) NOT ("ANIMALS"[MESH TERMS] NOT ("ANIMALS"[MESH TERMS] AND "HUMANS"[MESH TERMS])))) AND "ENGLISH"[LANGUAGE]) NOT (("EDITORIAL*"[PUBLICATION TYPE] OR "LETTER*"[PUBLICATION TYPE] OR "COMMENT*"[PUBLICATION TYPE] OR "CASE REPORT*"[PUBLICATION TYPE]) AND "ENGLISH"[LANGUAGE])) AND 2003/01/01:2021/12/31[DATE - PUBLICATION] AND ("TERIPARATIDE"[TEXT WORD] OR "FORTEO"[TEXT WORD] OR "DENOSUMAB"[TEXT WORD])) AND (("INPROCESS"[FILTER] AND 2003/01/01:3000/01/01[DATE - PUBLICATION]) OR "INPROCESS"[FILTER] OR "PUBMEDNOTMEDLINE"[FILTER] OR "PUBLISHER"[FILTER])

OVID EMBASE

- 1 exp glucocorticoid/ 762913
- 2 exp steroid/ 1610078
- 3 (glucocorticoid\$ or steroid\$ or methylprednisilone or prednisone or prednisolone).tw,kw. 497193
- 4 or/1-3 1726907
- 5 exp bone demineralization/ 140897
- 6 exp osteoporosis/ 138566
- 7 bone fragility/ 3494
- 8 demineralization/ 1922
- 9 exp metabolic bone disease/ 170255

10 osteolysis/ 75270
11 (bone adj (demineral\$ or fragil\$ or resorption)).tw,kw. 39340
12 (osteop?enia or osteoporos).tw,kw. 139178
13 osteolysis.tw,kw. 11400
14 exp fracture/ 313787
15 fracture\$.tw,kw. 328715
16 bone density/ 101736
17 (bone adj (density or mass or mineral\$ or loss)).tw,kw. 133574
18 BMD.tw,kw. 53649
19 bone densitometry/ 6410
20 (dexa or dxa).tw,kw. 35196
21 dual energy x ray absorptiometry/ 41645
22 dual energy x ray absorptiometry.tw,kw. 29071
23 (fracture adj2 (assessment or reassessment or re-assessment)).tw,kw. 3534
24 (FRAX or VFA).tw,kw. 9455
25 Vertebral Fracture Assessment.tw,kw. 608
26 "T score".tw,kw. 11756
27 or/5-26 674933
28 4 and 27 72540
29 *calcium/ 97455
30 calcium\$.tw,kw. 498189
31 *calcium carbonate/ 6126
32 *calcium intake/ 4024
33 or/29-32 527881
34 exp *vitamin D/69920
35 ("Vitamin D\$" or cholecalciferol\$ or hydroxycholecalciferol\$ or calcifediol\$ or
dihydroxycholecalciferol\$ or calcitriol\$).tw,kw. 119919
36 (ergocalciferol\$ or dihydrotachysterol\$ or rocaltrol\$).tw,kw. 2056

37 ("25-Hydroxyvitamin D 2" or "24,25-Dihydroxyvitamin D 3" or "1,25-dihydroxyvitamin D3" or "25-dihydroxyvitamin D3").tw,kw. 9806

38 ("1,25-dihydroxycholecalciferol" or "25-dihydroxycholecalciferol").tw,kw. 1607

39 or/34-38 133838

40 33 and 39 43600

41 (lifestyle adj (modification\$ or change\$)).tw,kw. 24099

42 *resistance training/ 9751

43 exp *exercise/ 156506

44 exp *sport/ 80478

45 *fitness/ 15274

46 (strengthen\$ or isometric\$ or isotonic\$ or isokinetic\$ or aerobic\$ or physical fitness or weight bearing or weight lifting).tw,kw. 333583

47 *fall risk assessment/ 620

48 *falling/ 12794

49 *risk assessment/ 63855

50 48 and 49 233

51 *smoking cessation/ 24509

52 "tobacco use cessation".tw,kw. 438

53 *drinking behavior/ 16455

54 (alcohol adj2 (reduct\$ or moderat\$)).tw,kw. 7927

55 *sun exposure/ 2463

56 (exposure adj sun\$).tw,kw. 209

57 *nutritional counseling/531

58 ((diet\$ or nutrition\$) adj counsel?ing).tw,kw. 5969

59 or/41-47,50-58 608494

60 exp *bisphosphonic acid derivative/ 26791

61 bisphosphonate\$.tw,kw. 29116

62 *alendronic acid/ 5040

63 alendronate\$.tw,kw. 7829

64 fosamax.tw,kw. 1656

65 *risedronic acid/ 1700

66 risedronate\$.tw,kw. 2971

67 actonel.tw,kw. 866

68 atelvia.tw,kw. 31

69 *ibandronic acid/ 1249

70 ibandronate\$.tw,kw. 1983

71 Boniva.tw,kw. 276

72 *zoledronic acid/ 5145

73 zoledronic acid.tw,kw. 7168

74 (Reclast or Zometa).tw,kw. 1565

75 *raloxifene/ 2965

76 raloxifene.tw,kw. 4925

77 Evista.tw,kw. 1032

78 teriparatide.tw,kw. 3985

79 *"parathyroid hormone[1-34"/ 3087

80 forteo.tw,kw. 558

81 *denosumab/ 3461

82 romosozumab/ 751

83 romosozumab.tw,kw. 465

84 Evenity.tw,kw. 36

85 (AMG 785 or AMG785 or AMG-785 or ROMOSOZUMAB-AQQG or CDP 7851 or CDP7851 or CDP-7851).tw,kw. 95

86 abaloparatide/ 483

87 ABALOPARATIDE.tw,kw.321

88 (TYMLOS or BA058).tw,kw. 51

89 or/59-88 662891

90 (28 and 40) or (28 and 40 and 89) 4855

91 14 or 15 411207

92 *RISK ASSESSMENT/ or *RISK FACTOR/ 158526

93 (RISK ASSESS\$ or RISK REASSESS\$ or RISK PROFILE\$ or RISK INDEX).tw,kw. 137189

94 92 or 93 271283

95 91 and 94 7579

96 or/19-22,24-26 79624

97 94 and 96 3815

98 23 or 95 or 97 9783

99 4 and 98 1634

100 90 or 99 6287

101 ((ANIMAL\$ or NONHUMANS) not HUMAN\$).sh,hw. 4554850

102 100 not 101 6128

103 limit 102 to conference abstract 1937

104 limit 102 to conference paper 188

105 limit 102 to conference proceeding 0

106 limit 102 to "conference review" 7

107 limit 102 to editorial 29

108 limit 102 to letter 39

109 or/103-108 2200

110 102 not 109 3928

111 CASE REPORT/ or CASE STUDY/ 2736232

112 (CASE\$ adj2 REPORT\$).tw. 827336

113 (CASE\$ adj2 STUD\$).tw. 363377

114 or/111-113 3181999

115 110 not 114 3655

116 limit 115 to english language 3020

117 limit 116 to dc=20160422-20211101 667

118 (sequential adj3 therap*).mp. [mp=title, abstract, heading word, drug trade name, original title,
device manufacturer, drug manufacturer, device trade name, keyword heading word, floating
subheading word, candidate term word] 6025

119 (combination adj3 therap*).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word] 136570

120 118 or 119 141744

121 120 not 101 129479

122 limit 121 to english language 118237

123 4 and 122 17692

124 or/78-81,86-88 8884

125 123 and 124 76

126 limit 125 to conference abstract 20

127 limit 125 to conference paper 1

128 limit 125 to conference proceeding 0

129 limit 125 to "conference review" 0

130 limit 125 to editorial 0

131 limit 125 to letter 0

132 or/126-131 21

133 125 not 132 55

134 CASE REPORT/ or CASE STUDY/ 2736232

135 (CASE\$ adj2 REPORT\$).tw. 827336

136 (CASE\$ adj2 STUD\$).tw. 363377

137 or/134-136 3181999

138 133 not 137 54

139 138 or 117 716

COCHRANE CENTRAL REGISTER OF CONTROLLED TRIALS

- #1 MeSH descriptor: [Glucocorticoids] explode all trees
- #2 MeSH descriptor: [Steroids] explode all trees
- #3 glucocorticoid* or steroid* or methylprednisilone or prednisone or prednisolone:ti,ab,kw

- #4 #1 or #2 or #3
- #5 MeSH descriptor: [Osteoporosis] explode all trees
- #6 MeSH descriptor: [Bone Diseases, Metabolic] explode all trees and with qualifier(s): [chemically induced - CI]
- #7 MeSH descriptor: [Bone Diseases] explode all trees and with qualifier(s): [chemically induced - CI]
- #8 MeSH descriptor: [Bone Resorption] explode all trees
- #9 MeSH descriptor: [Bone and Bones] explode all trees and with qualifier(s): [drug effects - DE]
- #10 bone resorption:ti,ab,kw
- #11 osteop*enia:ti,ab,kw
- #12 MeSH descriptor: [Fractures, Bone] explode all trees
- #13 fractur*:ti,ab,kw
- #14 MeSH descriptor: [Bone Density] this term only
- #15 bone next (density or mass or mineral* or demineral* or loss or decalcif* or strength):ti,ab,kw
- #16 BMD:ti,ab,kw
- #17 MeSH descriptor: [Densitometry] explode all trees
- #18 densitometry or DEXA or DXA:ti,ab,kw
- #19 fracture near/2 (assessment or reassessment or re-assessment):ti,ab,kw
- #20 FRAX or VFA:ti,ab,kw
- #21 "T score":ti,ab,kw
- #22 "x-ray absorptiometry":ti,ab,kw
- #23 {or #5-#22}
- #24 #4 and #23
- #25 MeSH descriptor: [Calcium Compounds] explode all trees
- #26 MeSH descriptor: [Calcium] this term only
- #27 calcium:ti,ab,kw
- #28 {or #25-#27}
- #29 MeSH descriptor: [Vitamin D] explode all trees
- #30 "Vitamin D" or cholecalciferol* or hydroxycholecalciferol* or calcifediol* or dihydroxycholecalciferol* or calcitriol*:ti,ab,kw

- #31 ergocalciferol* or dihydrotachysterol* or rocaltrol*:ti,ab,kw
- #32 "25-Hydroxyvitamin D 2" or "24,25-Dihydroxyvitamin D 3" or "1,25-dihydroxyvitamin D3" or "25-dihydroxyvitamin D3":ti,ab,kw
- #33 "1,25-dihydroxycholecalciferol" or "25-dihydroxycholecalciferol":ti,ab,kw
- #34 {or #29-#33}
- #35 #28 and #34
- #36 #24 and #35
- #37 lifestyle next (modif* or change*):ti,ab,kw
- #38 MeSH descriptor: [Exercise] explode all trees
- #39 MeSH descriptor: [Sports] explode all trees
- #40 MeSH descriptor: [Resistance Training] explode all trees
- #41 MeSH descriptor: [Physical Fitness] explode all trees
- #42 strengthen* or isometric* or isotonic* or isokinetic* or aerobic* or "physical fitness" or "weight bearing" or "weight lifting":ti,ab,kw
- #43 MeSH descriptor: [Accidental Falls] explode all trees
- #44 MeSH descriptor: [Risk Assessment] explode all trees
- #45 MeSH descriptor: [Risk Factors] explode all trees
- #46 #44 or #45
- #47 #43 and #46
- #48 fall* near (risk assess* or risk profile):ti,ab,kw
- #49 fall near (risk screening or risk index):ti,ab,kw
- #50 MeSH descriptor: [Smoking Cessation] this term only
- #51 "tobacco use cessation":ti,ab,kw
- #52 MeSH descriptor: [Alcohol Drinking] explode all trees
- #53 alcohol near (reduct* or moderat*):ti,ab,kw
- #54 MeSH descriptor: [Sunlight] this term only
- #55 exposure near sun*:ti,ab,kw
- #56 MeSH descriptor: [Nutritional Sciences] explode all trees
- #57 MeSH descriptor: [Counseling] explode all trees

#58 #56 and #57

#59 (diet* or nutrition*) next (counselling or counseling):ti,ab,kw

#60 {or #37-#42, #47-#55, #58-#59}

#61 MeSH descriptor: [Diphosphonates] explode all trees

#62 bisphosphonate*:ti,ab,kw

#63 MeSH descriptor: [Alendronate] this term only

#64 alendronate*:ti,ab,kw

#65 Fosamax:ti,ab,kw

#66 risedronate*:ti,ab,kw

#67 Actonel:ti,ab,kw

#68 Atelvia:ti,ab,kw

#69 ibandronate*:ti,ab,kw

#70 Boniva:ti,ab,kw

#71 zoledronic:ti,ab,kw

#72 Reclast or Zometa:ti,ab,kw

#73 MeSH descriptor: [Raloxifene Hydrochloride] this term only

#74 raloxifene:ti,ab,kw

#75 Evista:ti,ab,kw

#76 MeSH descriptor: [Teriparatide] this term only

#77 teriparatide:ti,ab,kw

#78 Forteo:ti,ab,kw

#79 denosumab:ti,ab,kw

#80 romosozumab*

#81 Evenity

#82 AMG 785 OR AMG785 OR AMG-785 OR CDP7851 OR CDP 7851 OR CDP-7851

#83 ABALOPARATIDE OR TYMLOS OR BA058

#84 #60 OR #61 OR #62 OR #63 OR #64 OR #65 OR #66 OR #67 OR #68 OR #69 OR #70 OR #71 OR #72 OR #73 OR #74 OR #75 OR #76 OR #77 OR #78 OR #79 OR #80 OR #81 OR #82 OR #83

#85 #24 and #35 and #84

#86 #36 or #85
#87 #12 or #13
#88 MeSH descriptor: [Risk Assessment] this term only
#89 "risk assess*" or "risk reassess*" or "risk re-assess*" or "risk profil*" or "risk index":ti,ab,kw
#90 #88 or #89
#91 #87 and #90
#92 #17 OR #18 OR #20 OR #21 OR #22
#93 #90 and #92
#94 #19 or #91 or #93
#95 #85 or #86 or #94 with Publication Year from 2016 to 2021, in Trials
#96 pubmed OR EMBASE
#97 #95 NOT #96