

Additional File 1. MEDLINE Search Strategy

Database: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Daily and Versions(R) <1946 to February 17, 2021>

Search Strategy:

- 1 exp Hypothyroidism/ (33056)
- 2 exp Thyroid Diseases/ (149791)
- 3 hypothyroid*.tw. (35912)
- 4 (thyroid? adj3 deficien*).tw. (1536)
- 5 (thyroid? adj3 insufficien*).tw. (488)
- 6 (thyroid? adj3 failure?).tw. (549)
- 7 (thyroid? adj3 low adj3 product*).tw. (7)
- 8 (thyroid? adj3 under adj3 product*).tw. (4)
- 9 (thyroid? adj3 underactiv*).tw. (27)
- 10 (thyroid? adj3 hypofunction).tw. (265)
- 11 (thyroid? adj3 d?sfuction).tw. (5642)
- 12 or/1-11 (162773)
- 13 (mild* or sub-clinic* or subclinic*).tw. (453666)
- 14 12 and 13 (8752)
- 15 (tsh adj3 (elevat* or increas* or high*)).tw. (6791)
- 16 (SHT or SCH).tw. (8664)
- 17 14 or 15 or 16 (22418)
- 18 exp Hormone Replacement Therapy/ (25185)
- 19 (thyroid? adj3 (therap* or treat*)).tw. (12185)
- 20 exp Thyroxine/ (48783)
- 21 (thyroxin* or levothyrox* or levo-thyrox* or l-thyrox* or L-T4 or LT4).tw. (34600)
- 22 or/18-21 (94909)
- 23 (follow?up or monitor* or observ* or surveil*).tw. (4488288)
- 24 ((no or lack*) adj2 (treatment* or therap* or intervention*)).tw. (137605)
- 25 (untreated or ('not' adj2 treat*)).tw. (264180)
- 26 or/23-25 (4777064)
- 27 exp Cardiovascular diseases/ or exp Heart diseases/ or exp Myocardial ischemia/ or exp Vascular diseases/ or exp Arteriosclerosis/ (2435564)
- 28 Carotid Intima Media Thickness/ or Intima-Media Thickness, Carotid/ or Atherosclerosis/ or Atheroscleroses/ or Atherogenesis/ (41075)

29 ((cardiovasc* or vasc* or cardio* or cardia* or heart* or coronary* or myocard* or pericard* or isch\$em*) adj2 (disease? or event? or arrest? or fail* or mortality)).tw. (745362)

30 (lipid\$ or cholesterol or TC or triglyceride\$ or LDL or HDL).tw. (756725)

31 (myocardi* adj (infarct* or revascular* or re-vascular* or isch\$emi*)).tw. (225198)

32 (heart attack* or angina).tw. (58869)

33 (morbid* adj5 (cardio* or cardia* or heart* or coronary* or myocard* or pericard* or isch\$em*)).tw. (25873)

34 peripheral arter* disease*.tw. (14503)

35 (emboli* or arrhythmi* or thrombo* or atrial fibrillat* or atrial flutter* or tachycardi* or endocardi* or (sick adj sinus)).tw. (690392)

36 (flow-mediated vasodilat* or flow-mediated dilat* or endothelial-dependent vasodilat* or endothelial-dependent dilat* or endothelial function\$ or carotid intima-media thickness or intima-media thickness or carotid-wall thickness or carotid atherosclerosis or C-IMT).tw. (35362)

37 (isch\$emi* adj2 (vascular or heart)).tw. (34721)

38 or/27-37 (3563857)

39 exp Quality of Life/ (204526)

40 quality of life.tw. (295840)

41 (QoL or HRQoL).tw. (56831)

42 or/39-41 (359236)

43 exp Stroke/ (140280)

44 exp Ischemic Attack, Transient/ (20638)

45 (stroke\$ or apoplexy).tw. (263191)

46 ((cerebrovasc* or cerebral vascular or brain) adj2 (disease? or event? or arrest? or fail* or mortality or accident* or death*)).tw. (62563)

47 ((brain* or cerebral or lacunar) adj2 infarct*).tw. (27518)

48 (isch\$emi* adj2 (transient or attack* or cerebral or brain)).tw. (57232)

49 or/43-48 (387778)

50 exp Frailty/ (3592)

51 frail*.tw. (24209)

52 exp Fractures, Bone/ or fracture\$.tw. (310642)

53 (50 or 51) and 52 (1293)

54 (mortality or death*).tw. (1479781)

55 Meta-Analysis as Topic/ (19028)

56 meta analy\$.tw. (194305)

57 metaanaly\$.tw. (2211)

58 Meta-Analysis/ (126788)

59 (systematic adj (review\$1 or overview\$1)).tw. (197114)
60 exp Review Literature as Topic/ (15372)
61 or/55-60 (335876)
62 cochrane.ab. (94602)
63 embase.ab. (105156)
64 (psychlit or psyclit).ab. (915)
65 (psychinfo or psycinfo).ab. (40574)
66 (cinahl or cinhal).ab. (32163)
67 science citation index.ab. (3252)
68 bids.ab. (563)
69 cancerlit.ab. (633)
70 or/62-69 (170652)
71 reference list\$.ab. (19037)
72 bibliograph\$.ab. (19191)
73 hand-search\$.ab. (7333)
74 relevant journals.ab. (1216)
75 manual search\$.ab. (4784)
76 or/71-75 (46231)
77 selection criteria.ab. (31649)
78 data extraction.ab. (23699)
79 77 or 78 (52968)
80 Review/ (2767148)
81 79 and 80 (29899)
82 Comment/ (894822)
83 Letter/ (1124632)
84 Editorial/ (558685)
85 animal/ (6756006)
86 human/ (19036693)
87 85 not (85 and 86) (4755937)
88 or/82-84,87 (6623165)
89 61 or 70 or 76 or 81 (402770)
90 89 not 88 (382792)
91 17 and (22 or 26) and (38 or 42 or 49 or 53 or 54) (2382)
92 90 and 91 (96)