

Supplementary file 2 – Literature search

Search strategy for Wiley/Cochrane Library (9 February 2015)

Search	Query	Items found
#1	(rheumatoid AND arthritis) OR spondylarthritis OR bechter* OR (ankylos* AND spondylitis*) OR (arthriti* AND psoria*)	7,867
#2	cholesterol* OR ("lipid metabolism" AND disorder*) OR dyslipidemi* OR hypercholesterolemi* OR hypertriglycerid* OR lipid* OR lipoprotein* OR triglycerid* OR atherogenic* OR ldl OR hdl OR statin* OR smoking OR smoke* OR cigar* OR tobacco OR (blood AND pressure) OR hypertensi* OR diabetes OR diabetic* OR (((chronic* OR "end stage") OR (chronic* OR "end stages")) AND (renal* OR kidney*) AND (insufficien* OR failur* OR disease*)) OR sex OR gender OR female* OR male OR males OR age OR ("anti-inflammatory" AND agent*) OR antirheumat* OR ("adrenal cortex" AND hormone*) OR nsaid* OR ((anti OR inhibitor*) AND (tnf OR (necrosis AND factor))) OR (anti AND rheumat*) OR methotrex* OR mtx OR corticosteroid* OR predniso* OR rituximab* OR tocilizumab* OR "Vitamin D" OR rituxan* OR mabthera* OR atlizumab* OR actemra* OR "vitamin d2" OR "vitamin d3" OR dihydrotachysterol* OR "hydroxyvitamin d3" OR "hydroxyvitamin d2" OR ergocalciferol* OR hydroxycholecalciferol* OR cholecalciferol* OR colecalciferol* OR inflammat* OR (risk AND (assessment* OR predictor* OR model*)) OR prediction* OR framingham OR score OR scores OR "carotid intima media thickness" OR echocardiograph* OR tte OR ttes OR "coronary calcium score" OR "coronary calcium scores" OR cac OR cacs OR cimt OR cimts OR (coronary AND ct*)	591,686
#3	cardiovascular*	28,925
#4	#1 AND #2 AND #3	160

Search strategy for PubMed (10 February 2015)

[Mesh] = Medical subject headings
 [Mesh:NoExp] = MeSH without explosion
 [tiab] = words in title OR abstract
 [ti] = words in title
 [ot] = words as other terms, especially author keywords

Search	Query	Items found
#16	#12 AND #13 AND #15	2,595
#15	#3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #14	5,826,773
#14	"Age Factors"[Mesh] OR age[tiab]	1,778,227
#13	#1 OR #2	127,025
#12	"Cardiovascular Diseases"[Mesh:NoExp] OR cardiovascular[tiab]	328,304
#11	"Carotid Intima-Media Thickness"[Mesh] OR carotid intima media thickness*[tiab] OR "Echocardiography"[Mesh] OR echocardiograph*[tiab] OR tte[tiab] OR ttes[tiab] OR coronary calcium score*[tiab] OR cac[tiab] OR cacs[tiab] OR cimt[tiab] OR cimts[tiab] OR coronary ct*[tiab]	152,824
#10	"Risk Assessment"[Mesh] OR risk assessment*[tiab] OR risk predictor*[tiab] OR prediction*[tiab] OR framingham[tiab] OR score[tiab] OR scores[tiab] OR risk model*[tiab]	886,470
#9	"Inflammation"[Mesh:NoExp] OR inflammat*[tiab]	620,803
#8	"Anti-Inflammatory Agents"[Mesh] OR "Anti-Inflammatory Agents"[Pharmacological Action] OR "Anti-Inflammatory Agents, Non-Steroidal"[Pharmacological Action] OR "Antirheumatic Agents"[Mesh:NoExp] OR "Antirheumatic Agents"[Pharmacological Action] OR "Adrenal Cortex Hormones"[Mesh] OR "Adrenal Cortex Hormones "[Pharmacological Action] OR nsaid*[tiab] OR ((anti[tiab] OR inhibitor*[tiab]) AND (tnf[tiab] OR (necrosis[tiab] AND factor[tiab]))) OR antirheumat*[tiab] OR (anti[tiab] AND rheumat*[tiab]) OR methotrex*[tiab] OR mtx[tiab] OR corticosteroid*[tiab] OR predniso*[tiab] OR "rituximab" [Supplementary Concept] OR "tocilizumab" [Supplementary Concept] OR "Vitamin D"[Mesh] OR "Vitamin D Deficiency"[Mesh] OR rituximab*[tiab] OR rituxan*[tiab] OR mabthera*[tiab] OR tocilizumab*[tiab] OR atlizumab*[tiab] OR actemra*[tiab] OR vitamin d[tiab] OR vitamin d2[tiab] OR vitamin d3[tiab] OR dihydrotachysterol*[tiab] OR hydroxyvitamin d3[tiab] OR hydroxyvitamin d2[tiab] OR ergocalciferol*[tiab] OR hydroxycholecalciferol*[tiab] OR cholecalciferol*[tiab] OR colecalciferol*[tiab]	891,077
#7	"Sex Factors"[Mesh] OR sex[tiab] OR gender[tiab] OR female*[tiab] OR male[tiab] OR males[tiab]	1,561,894
#6	"Diabetes Mellitus"[Mesh] OR diabetes[tiab] OR diabetic*[tiab] OR "Renal Insufficiency, Chronic"[Mesh] OR ((chronic*[tiab] OR end stage*[tiab]) AND (renal*[tiab] OR kidney*[tiab]) AND (insufficien*[tiab] OR failur*[tiab] OR disease*[tiab]))	599,809
#5	"Blood Pressure"[Mesh:NoExp] OR "Hypertension"[Mesh:NoExp] OR hypertensi*[tiab] OR (blood[tiab] AND pressure[tiab])	652,221
#4	"Smoking"[Mesh] OR smoking*[tiab] OR smoke*[ti] OR cigar*[ti] OR tobacco[ti]	227,212
#3	"Cholesterol"[Mesh:NoExp] OR "Cholesterol, HDL"[Mesh] OR "Cholesterol, LDL"[Mesh] OR "Lipid Metabolism Disorders"[Mesh:NoExp] OR "Dyslipidemias"[Mesh:NoExp] OR "Hypercholesterolemia"[Mesh] OR "Hypertriglyceridemia"[Mesh:NoExp] OR "Lipids"[Mesh:NoExp] OR "Lipoproteins"[Mesh] OR "Triglycerides"[Mesh:NoExp] OR "very low density lipoprotein triglyceride"[Substance Name] OR lipid*[tiab] OR hypercholesterolemi*[tiab] OR dyslipidemi*[tiab] OR atherogenic*[tiab] OR triglycerid*[tiab] OR ldl[tiab] OR hdl[tiab] OR cholesterol*[tiab] OR statin*[tiab] OR	636,969

	(lipid[tiab] AND lowering[tiab] AND agent*[tiab])	
#2	"Spondylarthritis"[Mesh] OR ((ankylos*[tiab] AND spondyliti*[tiab]) OR (arthriti*[tiab] AND psoria*[tiab])) OR bechter*[tiab]	25,058
#1	"Arthritis, Rheumatoid"[Mesh:NoExp] OR (rheumatoid[tiab] AND arthritis [tiab])	109,137

Search strategy for Embase.com (13 February 2015)

/exp = EMtree keyword with explosion

/de = EMtree keyword without explosion

:ab,ti = words in title OR abstract

NEXT/x = words in that order next to each other, x places apart

Search	Query	Items found
#16	#13 AND #14 AND #15	6,516
#15	#3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12	7,987,468
#14	#1 OR #2	186,396
#13	'cardiovascular disease'/de OR cardiovascular:ab,ti	466,884
#12	'arterial wall thickness'/exp OR 'echocardiography'/exp OR (carotid:ab,ti AND intima:ab,ti AND media:ab,ti AND thickness*:ab,ti) OR echocardiograph*:ab,ti OR tte:ab,ti OR ttes:ab,ti OR (coronary:ab,ti AND (calcium NEXT/1 score*):ab,ti) OR cac:ab,ti OR cacs:ab,ti OR cimt:ab,ti OR cims:ab,ti OR (coronary NEXT/1 ct*):ab,ti	286,910
#11	'risk assessment'/exp OR (risk NEXT/1 assessment*):ab,ti OR (risk NEXT/1 predictor*):ab,ti OR prediction*:ab,ti OR framingham:ab,ti OR score:ab,ti OR scores:ab,ti OR (risk NEXT/1 model*):ab,ti	1,267,461
#10	'inflammation'/de OR inflammat*:ab,ti	846,795
#9	'antiinflammatory agent'/exp OR 'antirheumatic agent'/exp OR 'corticosteroid'/exp OR nsaid*:ab,ti OR (anti:ab,ti OR inhibitor*:ab,ti AND (tnf:ab,ti OR (necrosis:ab,ti AND factor:ab,ti))) OR antirheumat*:ab,ti OR (anti:ab,ti AND rheumat*:ab,ti) OR methotrexa*:ab,ti OR mtx:ab,ti OR corticosteroid*:ab,ti OR predniso*:ab,ti OR 'rituximab'/exp OR 'tocilizumab'/exp OR 'vitamin d'/exp OR 'vitamin d deficiency'/exp OR rituximab*:ab,ti OR rituxan*:ab,ti OR mabthera*:ab,ti OR tocilizumab*:ab,ti OR atlizumab*:ab,ti OR actemra*:ab,ti OR 'vitamin d':ab,ti OR 'vitamin d2':ab,ti OR 'vitamin d3':ab,ti OR dihydrotachysterol*:ab,ti OR 'hydroxyvitamin d3':ab,ti OR 'hydroxyvitamin d2':ab,ti OR ergocalciferol*:ab,ti OR hydroxycholecalciferol*:ab,ti OR cholecalciferol*:ab,ti OR colecalciferol*:ab,ti	1,682,735
#8	'age'/exp OR age:ab,ti	2,546,464
#7	'sex difference'/exp OR sex:ab,ti OR gender:ab,ti OR female*:ab,ti OR male:ab,ti OR males:ab,ti	2,081,585
#6	'diabetes mellitus'/exp OR diabetes:ab,ti OR diabetic*:ab,ti OR 'chronic kidney failure'/exp OR (chronic*:ab,ti OR (end NEXT/1 stage*):ab,ti AND (renal*:ab,ti OR kidney*:ab,ti) AND (insufficien*:ab,ti OR failur*:ab,ti OR disease*:ab,ti))	865,709
#5	'blood pressure'/de OR 'hypertension'/de OR hypertensi*:ab,ti OR (blood:ab,ti AND pressure:ab,ti)	891,020
#4	'smoking'/exp OR smoking*:ab,ti OR smoke*:ti OR cigar*:ti OR tobacco:ti	320,513
#3	'cholesterol'/de OR 'cholesterol ester'/de OR 'high density lipoprotein cholesterol'/exp OR 'low density lipoprotein cholesterol'/exp OR 'very low density lipoprotein cholesterol'/exp OR 'disorders of lipid and lipoprotein metabolism'/de OR 'disorders of cholesterol metabolism'/exp OR 'disorders of lipid metabolism'/exp OR 'disorders of lipoprotein metabolism'/exp OR 'dyslipidemia'/exp OR 'hyperlipidemia'/exp OR 'lipid'/de OR 'lipoprotein'/exp OR 'triacylglycerol'/de OR lipid*:ab,ti OR hypercholesterolemi*:ab,ti OR dyslipidemi*:ab,ti OR atherogenic*:ab,ti OR triglycerid*:ab,ti OR ldl:ab,ti OR hdl:ab,ti OR cholesterol*:ab,ti OR statin*:ab,ti OR (lipid:ab,ti AND lowering:ab,ti AND agent*:ab,ti)	869,664

#2	'spondylitis'/de OR 'ankylosing spondylitis'/exp OR 'spondylarthritis'/exp OR (ankylos*:ab,ti AND spondyliti*:ab,ti) OR (arthriti*:ab,ti AND psoria*:ab,ti) OR bechter*:ab,ti	37,282
#1	'rheumatoid arthritis'/de OR (rheumatoid:ab,ti AND arthritis:ab,ti)	161,392