

SUPPLEMENTARY APPENDIX 4: Search Strategies

2019 Update of the American College of Rheumatology/Spondylitis Association of America/Spondyloarthritis Research and Treatment Network Recommendations for the Treatment of Ankylosing Spondylitis and Non-radiographic Axial Spondyloarthritis

All searches initially run on 9/9/2017 and updated on 2/28/2018

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Syntax Guide for PubMed	
[MeSH] = Medical Subject Heading	[Text Word] = Includes all words and numbers in the title, abstract, other abstract, MeSH terms, MeSH Subheadings, Publication Types, Substance Names, Personal Name as Subject, Corporate Author, Secondary Source, Comment/Correction Notes, and Other Terms - typically non-MeSH subject terms (keywords)...assigned by an organization other than NLM
[MeSH subheading] = a Medical Subject Heading subheading, e.g. drug therapy	[Title/Abstract] = Includes words in the title and abstracts
mh:noexp = a command to retrieve the results of the Medical Subject Heading specified, but not narrower Medical Subject Heading terms	
Boolean Operators	
OR = retrieves results that include at least one of the search terms	AND = retrieves results that include all the search terms
NOT = excludes the retrieval of terms from the search	

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((((((((("SPONDYLARTHRTIS"[MESH:NOEXP] OR SPONDYLARTHRTIS[TIAB] OR
SPONDYLOARTHRTIS[TIAB]) OR ("SPONDYLARTHROPATHIES"[MESH:NOEXP]) OR
(SPONDYLARTHROPATH*[TIAB] OR SPONDYLOARTHROPATH*[TIAB]) OR ("SPONDYLITIS"[MESH:NOEXP]
OR SPONDYLITIS[TIAB]) OR ("SPONDYLITIS, ANKYLOSING"[MESH] OR ANKYLOSING SPONDYL*[TIAB]) OR
(BECHTEREW DISEASE*[TIAB] OR BECHTEREW'S DISEASE*[TIAB] OR BECHTEREW S DISEASE*[TIAB] OR
MARIE STRUMPELL DISEASE*[TIAB] OR MARIE STRUMPELL DISEASE*[TIAB]) OR (AXIAL JOINT
DISEASE*[TIAB] OR ENTHESITIS[TIAB]) OR ("SACROILIITIS"[MESH] OR SACROILITIS[TIAB] OR
SACROILIITIS[TIAB] OR SACROILEITIS[TIAB]) OR (PERIPHERAL ARTHRITIS[TIAB]) AND (ENGLISH[LANG]))

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NOT ("ANIMALS"[MESH] NOT ("ANIMALS"[MESH] AND "HUMANS"[MESH])) NOT
((((("ADOLESCENT"[MESH]) OR "CHILD"[MESH]) OR "INFANT"[MESH]) NOT (((("ADOLESCENT"[MESH]) OR
"CHILD"[MESH]) OR "INFANT"[MESH]) AND ("ADULT"[MESH])))) NOT (EDITORIAL*[PT] OR LETTER*[PT]
OR COMMENT*[PT]) AND (("2014/07/09"[PDAT] : "2017/09/09"[PDAT])) AND ((PROCTOCOLITIS[TIAB])
OR ("COLITIS"[MESH] OR COLITIS[TIAB] OR INTESTINAL INFLAMMAT*[TIAB] OR BOWEL
INFLAMMAT*[TIAB] OR IRRITABLE BOWEL*[TIAB]) OR ((IBD[TIAB]) OR (IRITIS[TIAB] OR
IRIDOCYCLITIS[TIAB]) OR ("UVEITIS"[MESH] OR UVEITIS[TIAB] OR UVEITIDES[TIAB]) OR (CROHN'S
ENTERITIS[TIAB] OR REGIONAL ENTERITIS[TIAB] OR CROHN'S DISEASE[TIAB] OR CROHNS DISEASE[TIAB]
OR GRANULOMATOUS ENTERITIS[TIAB] OR ILEOCOLITIS[TIAB] OR GRANULOMATOUS COLITIS[TIAB] OR
TERMINAL ILEITIS[TIAB] OR REGIONAL ILEITIS[TIAB]) OR (IDIOPATHIC PROCTOCOLITIS[TIAB] OR COLITIS
GRAVIS[TIAB]) OR ("INFLAMMATORY BOWEL DISEASES"[MESH] OR INFLAMMATORY BOWEL
DISEASE*[TIAB] OR ULCERATIVE COLITIS[TW] OR CROHN DISEASE[TW])) AND (((("USTEKINUMAB"[TW]
OR STELARA[TIAB] OR CNTO 1275[TIAB] OR CNTO-1275[TIAB]) OR (ACTEMRA[TIAB] OR
ATLIZUMAB[TIAB]) OR (TOCILIZUMAB[TIAB]) OR ("TOCILIZUMAB"[SUPPLEMENTARY CONCEPT]) OR
(IDEC-C2B8*[TIAB] OR IDEC C2B8*[TIAB] OR GP2013[TIAB]) OR ("RITUXIMAB"[TW] OR MABTHERA[TIAB]
OR RITUXAN[TIAB]) OR (ANAKINRA[TIAB]) OR (BMS-224818[TIAB] OR BMS 224818[TIAB] OR
LEA29Y[TIAB] OR NULOJIX[TIAB] OR ORENCIA[TIAB] OR BMS 188667[TIAB] OR BMS-188667[TIAB] OR
BMS 188667[TIAB] OR CTLA-4-LG*[TIAB] OR CTLA4-LG*[TIAB] OR CTLA4 LG*[TIAB]) OR
("ABATACEPT"[TW] OR BELATACEPT[TIAB]) OR ("SECUKINUMAB"[SUPPLEMENTARY CONCEPT] OR
COSENTYX[TIAB] OR AIN 457[TIAB] OR AIN457[TIAB] OR AIN-457[TIAB])) OR (KINERET[TIAB]) OR
(SECUKINUMAB[TIAB])) OR ((((((("SPONDYLARTHROSITIS"[MESH:NOEXP] OR SPONDYLARTHROSITIS[TIAB] OR
SPONDYLOARTHROSITIS[TIAB]) OR ("SPONDYLARTHROPATHIES"[MESH:NOEXP]) OR
(SPONDYLARTHROPATH*[TIAB] OR SPONDYLOARTHROPATH*[TIAB]) OR ("SPONDYLITIS"[MESH:NOEXP]
OR SPONDYLITIS[TIAB]) OR ("SPONDYLITIS, ANKYLOSING"[MESH] OR ANKYLOSING SPONDYL*[TIAB]) OR
(BECHTEREW DISEASE*[TIAB] OR BECHTEREW'S DISEASE*[TIAB] OR BECHTEREW S DISEASE*[TIAB] OR
MARIE STRUMPELL DISEASE*[TIAB] OR MARIE STRUMPELL DISEASE*[TIAB]) OR (AXIAL JOINT
DISEASE*[TIAB] OR ENTHESITIS[TIAB]) OR ("SACROILIITIS"[MESH] OR SACROILIITIS[TIAB] OR
SACROILIITIS[TIAB] OR SACROILEITIS[TIAB]) OR (PERIPHERAL ARTHRITIS[TIAB]) AND (ENGLISH[LANG]))
NOT ("ANIMALS"[MESH] NOT ("ANIMALS"[MESH] AND "HUMANS"[MESH])) NOT
((((("ADOLESCENT"[MESH]) OR "CHILD"[MESH]) OR "INFANT"[MESH]) NOT (((("ADOLESCENT"[MESH]) OR
"CHILD"[MESH]) OR "INFANT"[MESH]) AND ("ADULT"[MESH])))) NOT (EDITORIAL*[PT] OR LETTER*[PT]
OR "HISTORICAL ARTICLE"[PT] OR COMMENT*[PT]) AND (("2014/07/09"[PDAT] : "2017/09/10"[PDAT]))
AND (((TOFACITINIB[TIAB]) OR ((TOFACITINIB[TIAB]) OR (((("AZATHIOPRINE"[TW] OR
AZOTHIOPRINE[TIAB] OR IMUREL[TIAB] OR IMURAN[TIAB] OR IMMURAN[TIAB]) OR
("THALIDOMIDE"[TW] OR THALOMID[TIAB]) OR (N- AND (4-TRIFLUOROMETHYPHENYL) AND -5-
METHYLISOXAZOLE-4-CARBOXAMIDE[TIAB] OR HWA 486[TIAB] OR HWA-486[TIAB] OR SU101[TIAB] OR
ARAVA[TIAB]) OR ("LEFLUNOMIDE"[SUPPLEMENTARY CONCEPT] OR LEFLUNOMIDE[TIAB]) OR
(ANTIRHEUMATIC DRUG*[TIAB] OR ANTI-RHEUMATIC AGENT*[TIAB] OR ANTI RHEUMATIC
AGENT*[TIAB] OR ANTI-RHEUMATIC DRUG*[TIAB] OR ANTI RHEUMATIC DRUG*[TIAB] OR
DMARD*[TIAB] OR ANTIRHEUMATIC DISEASE-MODIFYING SECOND-LINE DRUG*[TIAB] OR
ANTIRHEUMATIC DISEASE MODIFYING SECOND LINE DRUG*[TIAB] OR DISEASE-MODIFYING
ANTIRHEUMATIC DRUG*[TIAB] OR DISEASE MODIFYING ANTIRHEUMATIC DRUG*[TIAB]) OR

("ANTIRHEUMATIC AGENTS"[MESH] OR ANTIRHEUMATIC AGENT*[TIAB]) OR ("APREMILAST"[SUPPLEMENTARY CONCEPT] OR APREMILAST[TIAB]) OR (OTEZLA[TIAB] OR CC 10004[TIAB] OR CC-10004[TIAB]) OR (ORAL SMALL MOLECULE*[TIAB]) OR ("TOFACITINIB"[SUPPLEMENTARY CONCEPT] OR TASOCITINIB[TIAB] OR XELJANZ[TIAB] OR CP 690,550[TIAB] OR CP690550[TIAB] OR CP-690550[TIAB] OR CP 690550[TIAB] OR CP-690,550[TIAB])) OR ((JAK INHIBITOR*[TIAB] OR JANUS TYROSINE KINASE INHIBITOR*[TIAB]) OR (JANUS KINASE ANTAGONIST[TIAB] OR JANUS KINASE INHIBITOR*[TIAB] OR JANUS KINASE BLOCKER*[TIAB] OR ANTI-JANUS KINASE*[TIAB]) OR ("JANUS KINASES/ANTAGONISTS AND INHIBITORS"[MESH]))) OR (("CT-P13"[SUPPLEMENTARY CONCEPT] OR CT-P13[TIAB] OR INFLEXTRA[TIAB] OR REMSIMA[TIAB]) OR ((INFLIXIMAB[TW] OR MAB CA2[TIAB] OR MONOCLONAL ANTIBODY CA2[TIAB] OR REMICADE[TIAB] OR ETANERCEPT*[TW] OR TNF RECEPTOR TYPE II-IGG FUSION PROTEIN*[TIAB] OR TNF RECEPTOR TYPE II IGG FUSION PROTEIN*[TIAB] OR ENBREL[TIAB] OR TNFR-FC FUSION PROTEIN*[TIAB] OR TNFR FC FUSION PROTEIN*[TIAB] OR TNR-001[TIAB] OR TNR 001[TIAB] OR TNF RECEPTOR FUSION PROTEIN*[TIAB] OR ADALIMUMAB*[TW] OR D2E7 ANTIBOD*[TIAB] OR HUMIRA[TIAB] OR "CERTOLIZUMAB PEGOL"[MESH] OR CERTOLIZUMAB[TIAB] OR CIMZIA*[TIAB] OR CDP 870*[TIAB] OR "GOLIMUMAB"[SUPPLEMENTARY CONCEPT] OR GOLIMUMAB[TIAB] OR SIMPONI[TIAB]) OR ((ANTI TUMOR NECROSIS FACTOR AGENT*[TW] OR ANTI TUMOUR NECROSIS FACTOR AGENT*[TW] OR TNF ALPHA INHIBITOR*[TW] OR TNF INHIBITOR*[TW] OR TUMOUR NECROSIS FACTOR ALPHA INHIBITOR*[TW] OR TUMOUR NECROSIS FACTOR INHIBITOR*[TW] OR ANTI-TNF ALPHA AGENT*[TW] OR ANTI TNF ALPHA AGENT*[TW] OR ANTI TNF AGENT*[TW] OR ANTI-TNF AGENT*[TW] OR TUMOR NECROSIS FACTOR INHIBITOR*[TW] OR TUMOR NECROSIS FACTOR ALPHA INHIBITOR*[TW] OR TNF-ALPHA INHIBITOR*[TW] OR CACHECTIN INHIBITOR*[TW] OR TNF BLOCKER*[TW] OR TNF ALPHA BLOCKER*[TW] OR TUMOR NECROSIS FACTOR ALPHA BLOCKER*[TW] OR TUMOUR NECROSIS FACTOR ALPHA BLOCKER*[TW] OR TUMOR NECROSIS FACTOR BLOCKER*[TW] OR TUMOUR NECROSIS FACTOR BLOCKER*[TW]) OR ("TUMOR NECROSIS FACTORS/ANTAGONISTS AND INHIBITORS"[MESH]))) OR (((((CELEBREX[TIAB] OR CYCLOOXYGENASE-2 INHIBITOR*[TIAB] OR COXIB*[TIAB] OR COX-2 INHIBITOR*[TIAB] OR COX 2 INHIBITOR*[TIAB] OR COX2 INHIBITOR*[TIAB] OR SC 58635[TIAB] OR SC-58635[TIAB]) OR ("CELECOXIB"[MESH] OR CELECOXIB[TIAB])) OR ((ACETYSALICYLIC ACID[TIAB] OR ACYLPYRIN[TIAB] OR COLFARIT[TIAB] OR ECOTRIN[TIAB] OR ENDOSPRIN[TIAB] OR MAGNECYL[TIAB] OR MICRISTIN[TIAB] OR POLOPIRIN[TIAB] OR POLOPIRYNA[TIAB] OR SOLUPSAN[TIAB] OR ZORPRIN[TIAB] OR ACETYSAL[TIAB]) OR ("ASPIRIN"[MESH] OR ASPIRIN[TIAB])) OR ("DICLOFENAC"[MESH] OR DICLOFENAC[TIAB] OR DICLOPHENAC[TIAB] OR DICROFENAC[TIAB] OR DICLONATE P[TIAB] OR FELORAN[TIAB] OR VOLTAROL[TIAB] OR NOVAPIRINA[TIAB] OR ORTHOFEN[TIAB] OR ORTOFEN[TIAB] OR ORTHOPHEN[TIAB] OR SR-38[TIAB] OR SR 38[TIAB] OR SR38[TIAB] OR VOLTAREN[TIAB] OR GP45,840[TIAB] OR GP45,840[TIAB]) OR ("DIFLUNISAL"[MESH] OR DIFLUNISAL[TIAB] OR DOLOBID[TIAB] OR DOLOBIS[TIAB] OR NU DIFLUNISAL[TIAB] OR MK-647[TIAB] OR MK 647[TIAB] OR MK647[TIAB]) OR ("ETODOLAC"[MESH] OR ETODALAC[TIAB] OR ULTRADOL[TIAB] OR LODINE[TIAB] OR RAMODAR[TIAB]) OR ("FENOPROFEN"[MESH] OR FENOPROFEN[TIAB] OR NALGESIC[TIAB] OR NALFON[TIAB]) OR ("FLURBIPROFEN"[MESH] OR FLURBIPROFEN[TIAB] OR 2-FLUORO-ALPHA-METHYL- AND (1,1'-BIPHENYL) AND -4-ACETIC ACID[TIAB] OR FLUBIPROFEN[TIAB] OR BTS 18322[TIAB] OR E-7869[TIAB] OR E 7869[TIAB] OR FLUGALIN[TIAB] OR FROBEN*[TIAB] OR OCUFEN[TIAB] OR OCUFLUR[TIAB] OR STREFFEN[TIAB] OR ANSAID[TIAB]) OR ((ALPHA-METHYL-4- AND (2-METHYLPROPYL) AND BENZENEACETIC

ACID[TIAB] OR IBUMETIN[TIAB] OR IP 82[TIAB] OR IP82[TIAB] OR MOTRIN[TIAB] OR NUPRIN[TIAB] OR TRAUMA-DOLGIT GEL[TIAB] OR TRAUMA DOLGIT GEL[TIAB] OR BRUFEN[TIAB]) OR ("IBUPROFEN"[MESH] OR IBUPROFEN[TIAB])) OR ((INDOMETACIN[TIAB] OR AMUNO[TIAB] OR INDOCID[TIAB] OR METINDOL[TIAB] OR INDOMET 140[TIAB] OR OSMOSIN[TIAB] OR INDOCIN[TIAB]) OR ("INDOMETHACIN"[MESH] OR INDOMETHACIN[TIAB])) OR ((MECLOMEN[TIAB] OR MECLOFENAMATE[TIAB]) OR ("MECLOFENAMIC ACID"[MESH] OR MECLOFENAMIC ACID[TIAB])) OR ("MELOXICAM"[SUPPLEMENTARY CONCEPT] OR MELOXICAM[TIAB] OR MILOXICAM[TIAB] OR MOVALIS[TIAB] OR MOBIC[TIAB] OR MOBICOX[TIAB]) OR ((NABUMETON[TIAB] OR BRL 14777[TIAB] OR RELAFEN[TIAB] OR RELIF[TIAB] OR RELIFEX[TIAB] OR 4- AND (6-METHOXY-2-NAPHTHYL) AND -2-BUTANONE[TIAB]) OR ("NABUMETONE"[SUPPLEMENTARY CONCEPT] OR NABUMETONE[TIAB])) OR ((METHOXYPROIACIN[TIAB] OR MNPA[TIAB] OR ANAPROX[TIAB] OR NAPROSIN[TIAB] OR NAPROSYN[TIAB] OR PROXEN[TIAB] OR SYNFLX[TIAB] OR ALEVE[TIAB]) OR ("NAPROXEN"[MESH] OR NAPROXEN[TIAB])) OR ((4,5-DIPHENYL-2-OXAZOLEPROPIONIC ACID[TIAB] OR OXAPROZIN[TIAB] OR WY-21,473[TIAB] OR DAYPRO*[TIAB]) OR ("OXAPROZIN"[SUPPLEMENTARY CONCEPT])) OR ((CP-16171[TIAB] OR CP 16171[TIAB] OR FELDENE[TIAB]) OR ("PIROXICAM"[MESH] OR PIROXICAM[TIAB])) OR (SALSALATE[TIAB]) OR ("SALICYLATES"[MESH] OR SALICYLATE*[TIAB] OR SALICYLIC ACID*[TIAB]) OR ((APO SULIN[TIAB] OR CLINORIL[TIAB] OR ARTHROCINE[TIAB] OR KLINORIL[TIAB] OR CHIBRET[TIAB] OR MK-231[TIAB] OR MK 231[TIAB] OR ACLIN[TIAB] OR COPAL[TIAB]) OR ("SULINDAC"[MESH] OR SULINDAC[TIAB])) OR ((TOLECTIN[TIAB] OR MCN-2559[TIAB] OR MCN 2559[TIAB]) OR ("TOLMETIN"[MESH] OR TOLMETIN[TIAB])) OR ((NONSTEROIDAL ANTIINFLAMMATORY AGENT*[TIAB] OR NONSTEROIDAL ANTI-INFLAMMATORY AGENT*[TIAB] OR NONSTEROIDAL ANTI INFLAMMATORY AGENT*[TIAB] OR NSAID*[TIAB] OR NON-STEROIDAL ANTI-INFLAMMATORY AGENT*[TIAB] OR NON STEROIDAL ANTI INFLAMMATORY AGENT*[TIAB] OR ASPIRIN-LIKE AGENT*[TIAB] OR ANTI-INFLAMMATORY ANALGESIC*[TIAB] OR NON-STEROIDAL ANTI-RHEUMATIC AGENT*[TIAB] OR NON-STEROIDAL ANTIRHEUMATIC AGENT*[TIAB]) OR ("ANTI-INFLAMMATORY AGENTS, NON-STEROIDAL"[MESH]))) OR (((("SPONDYLARTHROSIS"[MESH:NOEXP] OR SPONDYLARTHROSIS[TIAB] OR SPONDYLOARTHROSIS[TIAB]) OR ("SPONDYLARTHROPATHIES"[MESH:NOEXP]) OR (SPONDYLARTHROPATH*[TIAB] OR SPONDYLOARTHROPATH*[TIAB]) OR ("SPONDYLITIS"[MESH:NOEXP] OR SPONDYLITIS[TIAB]) OR ("SPONDYLITIS, ANKYLOSING"[MESH] OR ANKYLOSING SPONDYL*[TIAB]) OR (BECHTEREW DISEASE*[TIAB] OR BECHTEREW'S DISEASE*[TIAB] OR BECHTEREW S DISEASE*[TIAB] OR MARIE STRUMPELL DISEASE*[TIAB] OR MARIE STRUMPELL DISEASE*[TIAB]) OR (AXIAL JOINT DISEASE*[TIAB] OR ENTHESITIS[TIAB]) OR ("SACROILIITIS"[MESH] OR SACROILIITIS[TIAB] OR SACROILIITIS[TIAB] OR SACROILEITIS[TIAB]) OR (PERIPHERAL ARTHRITIS[TIAB]) AND (ENGLISH[LANG])) NOT ("ANIMALS"[MESH] NOT ("ANIMALS"[MESH] AND "HUMANS"[MESH])) NOT (((("ADOLESCENT"[MESH]) OR "CHILD"[MESH]) OR "INFANT"[MESH]) NOT (((("ADOLESCENT"[MESH]) OR "CHILD"[MESH]) OR "INFANT"[MESH]) AND ("ADULT"[MESH])))) NOT (EDITORIAL*[PT] OR LETTER*[PT] OR COMMENT*[PT])) AND (((SECUKINUMAB[TIAB]) OR ("SECUKINUMAB"[SUPPLEMENTARY CONCEPT] OR COSENTYX[TIAB] OR AIN 457[TIAB] OR AIN457[TIAB] OR AIN-457[TIAB])) OR ("CT-P13"[SUPPLEMENTARY CONCEPT] OR CT-P13[TIAB] OR INFLEXTRA[TIAB] OR REMSIMA[TIAB]) OR ((INFLIXIMAB[TW] OR MAB CA2[TIAB] OR MONOCLONAL ANTIBODY CA2[TIAB] OR REMICADE[TIAB] OR ETANERCEPT*[TW] OR TNF RECEPTOR TYPE II-IGG FUSION PROTEIN*[TIAB] OR TNF RECEPTOR TYPE II IGG FUSION PROTEIN*[TIAB] OR ENBREL[TIAB] OR TNFR-FC FUSION PROTEIN*[TIAB] OR TNFR FC FUSION

PROTEIN*[TIAB] OR TNR-001[TIAB] OR TNR 001[TIAB] OR TNT RECEPTOR FUSION PROTEIN*[TIAB] OR ADALIMUMAB*[TW] OR D2E7 ANTIBOD*[TIAB] OR HUMIRA[TIAB] OR "CERTOLIZUMAB PEGOL"[MESH] OR CERTOLIZUMAB[TIAB] OR CIMZIA*[TIAB] OR CDP 870*[TIAB] OR "GOLIMUMAB"[SUPPLEMENTARY CONCEPT] OR GOLIMUMAB[TIAB] OR SIMPONI[TIAB]) OR ((ANTI TUMOR NECROSIS FACTOR AGENT*[TW] OR ANTI TUMOUR NECROSIS FACTOR AGENT*[TW] OR TNF ALPHA INHIBITOR*[TW] OR TNF INHIBITOR*[TW] OR TUMOUR NECROSIS FACTOR ALPHA INHIBITOR*[TW] OR TUMOUR NECROSIS FACTOR INHIBITOR*[TW] OR ANTI-TNF ALPHA AGENT*[TW] OR ANTI TNF ALPHA AGENT*[TW] OR ANTI TNF AGENT*[TW] OR ANTI-TNF AGENT*[TW] OR TUMOR NECROSIS FACTOR INHIBITOR*[TW] OR TUMOR NECROSIS FACTOR ALPHA INHIBITOR*[TW] OR TNF-ALPHA INHIBITOR*[TW] OR CACHECTIN INHIBITOR*[TW] OR TNF BLOCKER*[TW] OR TNF ALPHA BLOCKER*[TW] OR TUMOR NECROSIS FACTOR ALPHA BLOCKER*[TW] OR TUMOUR NECROSIS FACTOR ALPHA BLOCKER*[TW] OR TUMOR NECROSIS FACTOR BLOCKER*[TW] OR TUMOUR NECROSIS FACTOR BLOCKER*[TW] OR ("TUMOR NECROSIS FACTORS/ANTAGONISTS AND INHIBITORS"[MESH]))) OR (((("USTEKINUMAB"[TW] OR STELARA[TIAB] OR CNTO 1275[TIAB] OR CNTO-1275[TIAB]) OR (ACTEMRA[TIAB] OR ATLIZUMAB[TIAB]) OR (TOCILIZUMAB[TIAB]) OR ("TOCILIZUMAB"[SUPPLEMENTARY CONCEPT]) OR (IDEC-C2B8*[TIAB] OR IDEC C2B8*[TIAB] OR GP2013[TIAB]) OR ("RITUXIMAB"[TW] OR MABTHERA[TIAB] OR RITUXAN[TIAB]) OR (ANAKINRA[TIAB]) OR (BMS-224818[TIAB] OR BMS 224818[TIAB] OR LEA29Y[TIAB] OR NULOJIX[TIAB] OR ORENCIA[TIAB] OR BMS 188667[TIAB] OR BMS-188667[TIAB] OR BMS 188667[TIAB] OR CTLA-4-LG*[TIAB] OR CTLA4-LG*[TIAB] OR CTLA4 LG*[TIAB]) OR ("ABATACEPT"[TW] OR BELATACEPT[TIAB]) OR ("SECUKINUMAB"[SUPPLEMENTARY CONCEPT] OR COSENTYX[TIAB] OR AIN 457[TIAB] OR AIN457[TIAB] OR AIN-457[TIAB])) OR (KINERET[TIAB]) OR (SECUKINUMAB[TIAB])) OR ((("TIGHT CONTROL"[TIAB] OR "INTENSIVE TREATMENT"[TIAB]) OR ((TTT[TIAB] OR T2T[TIAB]) OR (TREAT-TO-TARGET*[TIAB]) OR (THERAPEUTIC TARGET*[TIAB]) OR (ASDAS[TIAB] OR SASDAS[TIAB]) OR (ANKYLOSING SPONDYLITIS DISEASE ACTIVITY SCORE*[TIAB]) OR ("TREAT TO TARGET")))) OR (((("MAGNETIC RESONANCE IMAGING"[MESH] OR NMR IMAGING*[TIAB] OR MR TOMOGRAPH*[TIAB] OR NMR TOMOGRAPH*[TIAB] OR MRI[TIAB] OR MRIS[TIAB] OR ZEUGMATOGRAPH*[TIAB] OR CHEMICAL SHIFT IMAGING*[TIAB] OR FMRI[TIAB] OR FMRIS[TIAB] OR MAGNETIC RESONANCE IMAGING*[TIAB] OR SPIN ECHO IMAGING*[TIAB]) OR (MR IMAGING*[TIAB] OR MAGNETIZATION TRANSFER*[TIAB] OR MAGNETIC RESONANCE TOMOGRAPH*[TIAB] OR NMR IMAGING*[TIAB])) AND ((("SPINE"[MESH] OR SPINE*[TIAB] OR SPINAL[TW] OR VERTEBRAL COLUMN*[TIAB] OR VERTEBRA*[TIAB]) OR ("PELVIS"[MESH] OR PELVIS[TIAB] OR PELVIC[TW])))) NOT (HISTORICAL ARTICLE[PT])) AND ((("CROSS-SECTIONAL STUDIES"[MESH] OR CORSS SECTIONAL[TW] OR CROSS-SECTIONAL[TW]) OR ("PROSPECTIVE STUDIES"[MESH] OR PROSPECTIV*[TIAB]) OR ("LONGITUDINAL STUDIES"[MESH] OR LONGITUDINAL[TIAB] OR RETROSPECTIV*[TW]) OR ("OBSERVATIONAL STUDY"[PUBLICATION TYPE] OR OBSERVATIONAL[TIAB]) OR ("FOLLOW-UP STUDIES"[MESH] OR FOLLOWUP[TIAB] OR FOLLOW-UP[TIAB] OR FOLLOW UP[TIAB]) OR (CASE CONTROL[TW] OR CASE-CONTROL[TW] OR COHORT[TW]) OR ("COHORT STUDIES"[MESH]) OR ("CASE-CONTROL STUDIES"[MESH]) OR ("EPIDEMIOLOGIC STUDIES"[MESH]) OR (RANDOMLY[TIAB] OR TRIAL[TIAB] OR GROUPS[TIAB]) OR (DRUG THERAPY[SH]) OR (PLACEBO*[TIAB]) OR (RANDOMIZED[TIAB] OR RANDOMISED[TIAB]) OR ("CONTROLLED CLINICAL TRIAL"[PUBLICATION TYPE]) OR ("RANDOMIZED CONTROLLED TRIAL"[PUBLICATION TYPE]) OR ("REVIEW LITERATURE AS TOPIC"[MESH]) OR ("REVIEW"[PUBLICATION TYPE] OR REVIEW[TI]) OR ("META-ANALYSIS"[PUBLICATION TYPE] OR META-ANALY*[TIAB] OR METAANAL*[TW]) OR ((SYSTEMATIC

REVIEW[TI] OR META-ANALYSIS[PT] OR META-ANALYSIS[TI] OR SYSTEMATIC LITERATURE REVIEW[TI] OR THIS SYSTEMATIC REVIEW[TW] OR POOLING PROJECT[TW] OR (SYSTEMATIC REVIEW[TIAB] AND REVIEW[PT]) OR META SYNTHESIS[TI] OR META-ANALY*[TI] OR INTEGRATIVE REVIEW[TW] OR INTEGRATIVE RESEARCH REVIEW[TW] OR RAPID REVIEW[TW] OR UMBRELLA REVIEW[TW] OR CONSENSUS DEVELOPMENT CONFERENCE[PT] OR PRACTICE GUIDELINE[PT] OR DRUG CLASS REVIEWS[TI] OR COCHRANE DATABASE SYST REV[TA] OR ACP JOURNAL CLUB[TA] OR HEALTH TECHNOL ASSESS[TA] OR EVID REP TECHNOL ASSESS SUMM[TA] OR JBI DATABASE SYSTEM REV IMPLEMENT REP[TA] OR (CLINICAL GUIDELINE[TW] AND MANAGEMENT[TW]) OR ((EVIDENCE BASED[TI] OR EVIDENCE-BASED MEDICINE[MH] OR BEST PRACTICE*[TI] OR EVIDENCE SYNTHESIS[TIAB]) AND (REVIEW[PT] OR DISEASES CATEGORY[MH] OR BEHAVIOR AND BEHAVIOR MECHANISMS[MH] OR THERAPEUTICS[MH] OR EVALUATION STUDIES[PT] OR VALIDATION STUDIES[PT] OR GUIDELINE[PT] OR PMCBOOK)) OR ((SYSTEMATIC[TW] OR SYSTEMATICALLY[TW] OR CRITICAL[TIAB] OR (STUDY SELECTION[TW]) OR (PREDETERMINED[TW] OR INCLUSION[TW] AND CRITERI*[TW]) OR EXCLUSION CRITERI*[TW] OR MAIN OUTCOME MEASURES[TW] OR STANDARD OF CARE[TW] OR STANDARDS OF CARE[TW]) AND (SURVEY[TIAB] OR SURVEYS[TIAB] OR OVERVIEW*[TW] OR REVIEW[TIAB] OR REVIEWS[TIAB] OR SEARCH*[TW] OR HANDSEARCH[TW] OR ANALYSIS[TI] OR CRITIQUE[TIAB] OR APPRAISAL[TW] OR (REDUCTION[TW] AND (RISK[MH] OR RISK[TW])) AND (DEATH OR RECURRENCE))) AND (LITERATURE[TIAB] OR ARTICLES[TIAB] OR PUBLICATIONS[TIAB] OR PUBLICATION[TIAB] OR BIBLIOGRAPHY[TIAB] OR BIBLIOGRAPHIES[TIAB] OR PUBLISHED[TIAB] OR POOLED DATA[TW] OR UNPUBLISHED[TW] OR CITATION[TW] OR CITATIONS[TW] OR DATABASE[TIAB] OR INTERNET[TIAB] OR TEXTBOOKS[TIAB] OR REFERENCES[TW] OR SCALES[TW] OR PAPERS[TW] OR DATASETS[TW] OR TRIALS[TIAB] OR META-ANALY*[TW] OR (CLINICAL[TIAB] AND STUDIES[TIAB]) OR TREATMENT OUTCOME[MH] OR TREATMENT OUTCOME[TW] OR PMCBOOK)) NOT (LETTER[PT] OR NEWSPAPER ARTICLE[PT]))))

EMBASE

Syntax Guide for Embase	
/exp	Explode. Includes Embase subject headings and the narrower terms in the hierarchy.
ti,ab	Includes words in the title or abstracts
de	Includes words in Embase subject headings
Boolean Operators	
OR = retrieves results that include at least one of the search terms	AND = retrieves results that include all the search terms
NOT = excludes the retrieval of terms from the search	

No. Query

#136 #116 AND #135

No. Query

#117 OR #118 OR #119 OR #120 OR #121 OR #122 OR #123 OR #124 OR #125 OR #126 OR #127 OR #128 OR #129 OR #130
#135
OR #131 OR #132 OR #133 OR #134

#134 'cross-sectional study'/exp OR 'cross-sectional':ti,ab OR 'cross sectional':ti,ab

#133 'prospective study'/exp OR prospectiv*:ti,ab

#132 'retrospective study'/exp OR retrospectiv*:ti,ab

#131 'longitudinal study'/exp OR longitudinal:ti,ab

#130 'observational study'/exp OR observational:ti,ab

#129 'follow up'/exp OR followup:ti,ab OR 'follow-up':ti,ab

#128 'cohort analysis'/exp OR cohort:ti,ab

#127 'case control study'/exp OR 'case control':ti,ab

#126 'epidemiological study':ti,ab OR 'epidemiologic study':ti,ab

#125 'control group'/exp OR 'control group':ti,ab

#124 randomly:ab OR trial:ab OR groups:ab

#123 'drug therapy':ti,ab,de

#122 placebo:ab

#121 randomized:ab OR randomised:ab

'randomized controlled trial'/exp OR 'controlled clinical trial'/exp OR 'clinical trial':ti,ab,de OR rct:ti,ab

#120 OR 'controlled clinical drug trial':ti,ab OR 'controlled clinical comparison':ti,ab OR 'controlled clinical experiment':ti,ab
OR 'controlled clinical study':ti,ab OR 'controlled clinical test':ti,ab

#119 'review'/exp OR review:ti,ab

#118 'systematic review'/exp OR 'systematic review':ti,ab,de OR 'systematic overview':ti,ab,de

No. Query

#117 'meta analysis'/exp OR 'meta-analysis':ti,ab,de OR 'meta analysis':ti,ab,de OR metaanaly*:ti,ab,de

#116 #52 OR #115

#115 #110 OR #111 OR #112 OR #113 OR #114

#114 #70 AND #109

#113 #70 AND #97

#112 #70 AND #92

#111 #70 AND #84

#110 #70 AND #75

#109 #104 AND #108

#108 #105 OR #106 OR #107

#107 'pelvis'/exp OR pelvis:ti,ab OR pelvic:ti,ab,de

#106 vertebra*:ti,ab,de

#105 'spine'/exp OR spinal:ti,ab,de

#104 #102 OR #103

#103 'mr imaging':ti,ab

#102 #100 OR #101

#101 fmri:ti,ab

#100 #98 OR #99

#99 'magnetic resonance':ti,ab AND imaging*:ti,ab,de

#98 'nuclear magnetic resonance imaging'/exp OR nmri:ti,ab OR mri:ti,ab OR mris:ti,ab OR tomograph*:ti,ab

No. Query

#97 #93 OR #94 OR #95 OR #96

#96 'ankylosing spondylitis disease activity score'/exp OR asdas:ti,ab OR sasd:ti,ab

#95 'therapeutic target':ti,ab OR 'tight control':ti,ab OR 'intensive treatment':ti,ab OR ttt:ti,ab OR t2t:ti,ab OR 'treat-to-target':ti,ab

#94 'treat to target':ti,ab

#93 'treat to target'/exp

#92 #85 OR #86 OR #87 OR #88 OR #89 OR #90 OR #91

#91 'secukinumab'/exp

#90 'belatacept'/exp

#89 'abatacept'/exp

#88 'anakinra'/exp

#87 'rituximab'/exp

#86 'tocilizumab'/exp

#85 'ustekinumab'/exp

#84 #76 OR #77 OR #78 OR #79 OR #80 OR #81 OR #82 OR #83

#83 'janus kinase inhibitor'/exp

#82 'apremilast'/exp

#81 'antirheumatic agent'/exp

#80 'leflunomide'/exp

#79 'thalidomide'/exp

#78 'azathioprine'/exp

No. Query

#77 'tofacitinib'/exp OR 'oral small molecule':ti,ab

#76 'disease modifying antirheumatic drug'/exp OR dmard*:ti,ab

#75 #71 OR #72 OR #73 OR #74

#74 'ain-457':ti,ab OR ain457:ti,ab

#73 'ain 457':ti,ab

#72 cosentyx:ti,ab

#71 'secukinumab'/exp

#70 #68 NOT #69

#69 'letter'/exp OR 'editorial'/exp OR 'case report'/exp

#68 #66 NOT #67

#67 'juvenile'/exp NOT ('juvenile'/exp AND 'adult'/exp)

#66 #64 NOT #65

#65 'animal'/exp NOT ('animal'/exp AND 'human'/exp)

#64 #63 AND [embase]/lim NOT [medline]/lim AND ('article'/it OR 'article in press'/it OR 'review'/it) AND [english]/lim

#63 #53 OR #54 OR #55 OR #56 OR #57 OR #58 OR #59 OR #60 OR #61 OR #62

#62 'peripheral arthritis'/exp OR 'peripheral arthritis':ti,ab

#61 'enthesopathy'/exp OR enthesopath*:ti,ab OR enthesitis:ti,ab

#60 'axial joint disease':ti,ab

#59 'marie-struempell disease':ti,ab OR 'marie struempell disease':ti,ab

#58 'sacroiliitis'/exp OR sacroiliitis:ti,ab OR sacroilitis:ti,ab OR sacroileitis:ti,ab

No. Query

#57 'ankylosing spondylitis':ti,ab

#56 spondyloarthritis:ti,ab

#55 spondylarthritis:ti,ab

#54 'spondyloarthropathy'/de OR spondyloarthropath*:ti,ab OR spondylarthropath*:ti,ab

#53 'spondylitis'/de OR 'ankylosing spondylitis'/exp OR 'spondylarthritis'/exp OR spondylitis:ti,ab

#52 #50 OR #51

#51 #18 AND #37 AND #49

#50 #18 AND (#19 OR #20 OR #29)

#49 #38 OR #39 OR #40 OR #41 OR #42 OR #43 OR #44 OR #45 OR #46 OR #47 OR #48

#48 'regional ileitis':ti,ab

#47 'terminal ileitis':ti,ab

#46 ileocolitis:ti,ab,de

#45 'uveitis'/exp OR iritis:ti,ab OR iridocyclitis:ti,ab OR uveitides:ti,ab

#44 'bowel inflammation':ti,ab

#43 'enteritis':ti,ab,de

#42 'irritable colon'/exp OR 'irritable bowel':ti,ab

#41 'crohn disease':ti,ab,de OR 'crohns disease':ti,ab

#40 'inflammatory bowel disease'/exp OR ibd:ti,ab

#39 'colitis'/de OR colitis:ti,ab

#38 'proctocolitis'/exp

No. Query

#37 #30 OR #31 OR #32 OR #33 OR #34 OR #35 OR #36

#36 'secukinumab'/exp

#35 'belatacept'/exp

#34 'abatacept'/exp

#33 'anakinra'/exp

#32 'rituximab'/exp

#31 'tocilizumab'/exp

#30 'ustekinumab'/exp

#29 #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28

#28 'janus kinase inhibitor'/exp

#27 'apremilast'/exp

#26 'antirheumatic agent'/exp

#25 'leflunomide'/exp

#24 'thalidomide'/exp

#23 'azathioprine'/exp

#22 'tofacitinib'/exp OR 'oral small molecule':ti,ab

#21 'disease modifying antirheumatic drug'/exp OR dmard*:ti,ab

#20 'tumor necrosis factor inhibitor'/exp

#19 'nonsteroid antiinflammatory agent'/exp OR nsaid*:ti,ab

#18 #16 NOT #17 AND [9-7-2014]/sd NOT [9-9-2017]/sd

No. Query

#17 'letter'/exp OR 'editorial'/exp OR 'case report'/exp

#16 #14 NOT #15

#15 'juvenile'/exp NOT ('juvenile'/exp AND 'adult'/exp)

#14 #12 NOT #13

#13 'animal'/exp NOT ('animal'/exp AND 'human'/exp)

#12 #11 AND [embase]/lim NOT [medline]/lim AND ('article'/it OR 'article in press'/it OR 'review'/it) AND [english]/lim

#11 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10

#10 'peripheral arthritis'/exp OR 'peripheral arthritis':ti,ab

#9 'enthesopathy'/exp OR enthesopath*:ti,ab OR enthesitis:ti,ab

#8 'axial joint disease':ti,ab

#7 'marie-struempell disease':ti,ab OR 'marie struempell disease':ti,ab

#6 'sacroiliitis'/exp OR sacroiliitis:ti,ab OR sacroilitis:ti,ab OR sacroileitis:ti,ab

#5 'ankylosing spondylitis':ti,ab

#4 spondyloarthritis:ti,ab

#3 spondylarthritis:ti,ab

#2 'spondyloarthropathy'/de OR spondyloarthropath*:ti,ab OR spondylarthropath*:ti,ab

#1 'spondylitis'/de OR 'ankylosing spondylitis'/exp OR 'spondylarthritis'/exp OR spondylitis:ti,ab

COCHRANE

MeSH descriptor = Medical Subject Heading	ti,ab,kw = Word appears in title, abstract or keyword field of record
near/2 = Terms must be within two words of each other	Next = terms must be adjacent, e.g. bone next density means that the term beginning with bone must be adjacent to the term beginning with density
* = truncation symbol	
Boolean Operators	
OR = retrieves results that include at least one of the search terms	AND = retrieves results that include all the search terms
NOT = excludes the retrieval of terms from the search	

- ID Search
- #1 MeSH descriptor: [Spondylarthritis] this term only
- #2 spondylarthritis or SPONDYLOARTHRITIS
- #3 MeSH descriptor: [Spondylarthropathies] this term only
- #4 SPONDYLARTHROPATH* or SPONDYLOARTHROPATH*
- #5 MeSH descriptor: [Spondylitis] this term only
- #6 SPONDYLITIS
- #7 MeSH descriptor: [Spondylitis, Ankylosing] explode all trees
- #8 ANKYLOSING SPONDYLITIS
- #9 BECHTEREW DISEASE or BECHTEREW'S DISEASE or BECHTEREWS DISEASE
- #10 MARIE-STRUEMPPELL DISEASE or MARIE STRUEMPELL DISEASE
- #11 AXIAL JOINT DISEASE*
- #12 ENTHESITIS

- #13 MeSH descriptor: [Sacroiliitis] explode all trees
- #14 SACROILIITIS or SACROILITIS or SACROILETIS or SACROILEITIS
- #15 PERIPHERAL ARTHRITIS
- #16 #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 or #14 or
#15
- #17 MeSH descriptor: [Anti-Inflammatory Agents, Non-Steroidal] explode all trees
- #18 nsaid*
- #19 celebrex
- #20 MeSH descriptor: [Celecoxib] explode all trees
- #21 CELECOXIB or ASPIRIN or DICLOFENAC or DIFLUNISAL or ETODALAC or
FENOPROFEN or FLURBIPROFEN or IBUPROFEN or INDOMETHACIN or MECLOFENAMIC
or MELOXICAM or NABUMETONE or NAPROEN or OXAPROZIN or PIROXICAM or
SALICYLATE* or SULINDAC or TOLMETIN
- #22 MeSH descriptor: [Aspirin] explode all trees
- #23 MeSH descriptor: [Diclofenac] explode all trees
- #24 MeSH descriptor: [Diflunisal] explode all trees
- #25 MeSH descriptor: [Etodolac] explode all trees
- #26 MeSH descriptor: [Fenoprofen] explode all trees
- #27 MeSH descriptor: [Flurbiprofen] explode all trees
- #28 MeSH descriptor: [Ibuprofen] explode all trees
- #29 MeSH descriptor: [Indomethacin] explode all trees
- #30 MeSH descriptor: [Meclofenamic Acid] explode all trees
- #31 MeSH descriptor: [Naproxen] explode all trees
- #32 MeSH descriptor: [Piroxicam] explode all trees
- #33 MeSH descriptor: [Salicylates] explode all trees
- #34 MeSH descriptor: [Sulindac] explode all trees

#35 MeSH descriptor: [Tolmetin] explode all trees

#36 #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 or #25 or #26 or #27 or #28 or #29
or #30 or #31 or #32 or #33 or #34 or #35

#37 CYCLOOXYGENASE-2 INHIBITOR* or COXIB* or COX-2 INHIBITOR* or COX 2
INHIBITOR* or COX2 INHIBITOR* or SC 58635 or SC-58635 or ACETYLSALICYLIC ACID or
ACYLPYRIN or COLFARIT or ECOTRIN or ENDOSPRIN or MAGNECYL or MICRISTIN or
POLOPIRIN or POLOPIRYNA or SOLUPSAN or ZORPRIN or ACETYSAL or DICLOPHENAC
or DICROFENAC or DICLONATE P or FELORAN or VOLTAROL or NOVAPIRINA or
ORTHOFEN or ORTOFEN or ORTHOPHEN or SR-38 or SR 38 or SR38 or VOLTAREN or
GP45,840 or GP45,840 or DOLOBID or DOLOBIS or NU DIFLUNISAL or MK-647 or MK 647 or
MK647 or ULTRADOL or LODINE or RAMODAR or NALGESIC or NALFON or 2-FLUORO-
ALPHA-METHYL- and 1,1'-BIPHENYL and -4-ACETIC ACID or FLUBIPROFEN or BTS 18322
or E-7869 or E 7869 or FLUGALIN or FROBEN* or OCUFEN or OCUFLUR or STREFEN or
ANSAID or ALPHA-METHYL-4- and 2-METHYLPROPYL and BENZENEACETIC ACID or
IBUMETIN or IP 82 or IP82 or MOTRIN or NUPRIN or TRAUMA-DOLGIT GEL or TRAUMA
DOLGIT GEL or BRUFEN or INDOMETACIN or AMUNO or INDOCID or METINDOL or
INDOMET 140 or OSMOSIN or INDOCIN or MECLOMEN or MECLOFENAMATE or
"MELOXICAM" or MELOXICAM or MILOXICAM or MOVALIS or MOBIC or MOBICOX or
NABUMETON or BRL 14777 or RELAFEN or RELIF or RELIFEX or 4- and 6-METHOXY-2-
NAPHTHYL and -2-BUTANONE or "NABUMETONE" or NABUMETONE or
METHOXYPROPIOCIN or MNPA or ANAPROX or NAPROSIN or NAPROSYN or PROXEN or
SYNFLEX or ALEVE or 4,5-DIPHENYL-2-OXAZOLEPROPIONIC ACID or OXAPROZIN or WY-
21,473 or DAYPRO* or "OXAPROZIN" or CP-16171 or CP 16171 or FELDENE or SALSALATE
or SALICYLIC ACID* or APO SULIN or CLINORIL or ARTHROCINE or KLINORIL or CHIBRET
or MK-231 or MK 231 or ACLIN or COPAL or TOLECTIN or MCN-2559 or MCN 2559 or
NONSTEROIDAL ANTIINFLAMMATORY AGENT* or NONSTEROIDAL ANTI-

INFLAMMATORY AGENT* or NONSTEROIDAL ANTI INFLAMMATORY AGENT* or NSAID* or
NON-STEROIDAL ANTI-INFLAMMATORY AGENT* or NON STEROIDAL ANTI
INFLAMMATORY AGENT* or ASPIRIN-LIKE AGENT* or ANTI-INFLAMMATORY ANALGESIC*
or NON-STEROIDAL ANTI-RHEUMATIC AGENT* or NON-STEROIDAL ANTIRHEUMATIC
AGENT*

#38 #36 or #37

#39 MeSH descriptor: [Tumor Necrosis Factor-alpha] explode all trees and with qualifier(s):
[Antagonists & inhibitors - AI]

#40 MeSH descriptor: [Adalimumab] explode all trees

#41 adalimumab

#42 MeSH descriptor: [Certolizumab Pegol] explode all trees

#43 certolizumab

#44 golimumab

#45 MeSH descriptor: [Etanercept] explode all trees

#46 etanercept

#47 CT-P13

#48 INFLEXTRA or REMSIMA or INFLIXIMAB or MAB CA2 or MONOCLONAL ANTIBODY
CA2 or REMICADE or TNF RECEPTOR TYPE II-IGG FUSION PROTEIN* or TNF RECEPTOR
TYPE II IGG FUSION PROTEIN* or ENBREL or TNFR-FC FUSION PROTEIN* or TNFR FC
FUSION PROTEIN* or TNR-001 or TNR 001 or TNT RECEPTOR FUSION PROTEIN* or D2E7
ANTIBOD* or HUMIRA or CIMZIA* or CDP 870* or SIMPONI or ANTI TUMOR NECROSIS
FACTOR AGENT* or ANTI TUMOUR NECROSIS FACTOR AGENT* or TNF ALPHA
INHIBITOR* or TNF INHIBITOR* or TUMOUR NECROSIS FACTOR ALPHA INHIBITOR* or
TUMOUR NECROSIS FACTOR INHIBITOR* or ANTI-TNF ALPHA AGENT* or ANTI TNF
ALPHA AGENT* or ANTI TNF AGENT* or ANTI-TNF AGENT* or TUMOR NECROSIS
FACTOR INHIBITOR* or TUMOR NECROSIS FACTOR ALPHA INHIBITOR* or TNF-ALPHA

INHIBITOR* or CACHECTIN INHIBITOR* or TNF BLOCKER* or TNF ALPHA BLOCKER* or TUMOR NECROSIS FACTOR ALPHA BLOCKER* or TUMOUR NECROSIS FACTOR ALPHA BLOCKER* or TUMOR NECROSIS FACTOR BLOCKER* or TUMOUR NECROSIS FACTOR BLOCKER*

#49 #39 or #40 or #41 or #42 or #43 or #44 or #45 or #46 or #47 or #48

#50 TOFACITINIB

#51 MeSH descriptor: [Azathioprine] explode all trees

#52 AZATHIOPRINE

#53 MeSH descriptor: [Thalidomide] explode all trees

#54 THALIDOMIDE

#55 LEFLUNOMIDE

#56 MeSH descriptor: [Antirheumatic Agents] explode all trees

#57 ANTIRHEUMATIC AGENT*

#58 APREMILAST

#59 MeSH descriptor: [Janus Kinases] explode all trees and with qualifier(s): [Antagonists & inhibitors - AI]

#60 IMUREL or IMURAN or IMMURAN or HWA 486 or HWA-486 or SU101 or ARAVA or ANTIRHEUMATIC DRUG* or ANTI-RHEUMATIC AGENT* or ANTI RHEUMATIC AGENT* or ANTI-RHEUMATIC DRUG* or ANTI RHEUMATIC DRUG* or DMARD* or ANTIRHEUMATIC DISEASE-MODIFYING SECOND-LINE DRUG* or ANTIRHEUMATIC DISEASE MODIFYING SECOND LINE DRUG* or DISEASE-MODIFYING ANTIRHEUMATIC DRUG* or DISEASE MODIFYING ANTIRHEUMATIC DRUG* or OTEZLA or CC 10004 or CC-10004 or ORAL SMALL MOLECULE* or TASOCITINIB or XELJANZ or CP 690,550 or CP690550 or CP-690550 or CP 690550 or CP-690,550 or JAK INHIBITOR* or JANUS TYROSINE KINASE INHIBITOR* or JANUS KINASE ANTAGONIST or JANUS KINASE INHIBITOR* or JANUS KINASE BLOCKER* or ANTI-JANUS KINASE*

#61 #50 or #51 or #52 or #53 or #54 or #55 or #56 or #57 or #58 or #59 or #60

#62 #16 and (#38 or #49 or #61)