Supplementary File 1 - Search strategy for final systematic review, divided by database

Full-length articles

1) Database: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to March 16, 2021>

Search Strategy:

--------------------------------------------------------------------------------
1     exp Arthritis, Rheumatoid/ (115118)
2     rheumatoid arthritis.mp. (109575)
3     (ra and (musculoskeletal or rheumatic)).mp. (5097)
4     or/1-3 (152263)
5     exp socioeconomic factors/ or economic factors/ or economic status/ or poverty/ or poverty areas/ or social class/ or social mobility/ or social factors/ (462857)
6     Hierarchy, Social/ (2240)
7     social conditions/ or social environment/ (52456)
8     (socioeconomic or socio-economic or SES or sociodemographic or socio-demographic or social factor$ or sociological factor$ or social class or working class or social hierarchy or social mobility or social deprivation or socially deprived or deprived area$ or economic status or poverty or poorer household$ or household income$).mp. (396529)
9     (social position or position in society or low$ income$ or social standing or social prestige).mp. (46597)
10     (social conditions or social environment$).mp. (61792)
11     or/5-10 (679633)
12     4 and 11 (1870)
13     (disease activity or clinical disease activity index or CDAI or simple disease activity index or SDAI).mp. (46153)
14     (disease activity scor$ or DAS 28 or DAS28).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] (7645)
15     (eular or eular response or American College of Rheumatology response or ACR response).mp. (3003)
16     exp Inflammation/ (351775)
17     Inflammation.mp. (561437)
18     remission.mp. (157349)
19     refractory.mp. (135039)
difficult-to-treat.mp. (13469)
(resistant adj2 (disease or rheumatoid arthritis)).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] (4618)
(ra and resistant and (musculoskeletal or rheumatic)).mp. (71)
D2T RA.mp. (6)
exp "Severity of Illness Index"/ (261021)
(severity adj2 (disease or illness)).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] (298417)
(burden adj2 disease).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] (26600)
or/13-26 (1348337)
12 and 27 (596)

Database: Embase <1974 to 2021 March 16>

Search Strategy:

exp rheumatoid arthritis/ (208465)
rheumatoid arthritis.mp. (227316)
(ra and (musculoskeletal or rheumatic)).mp. (17293)
or/1-3 (232493)
socioeconomics/ (144900)
economic aspect/ (115189)
economic status/ or household economic status/ (1394)
poverty/ (48313)
social status/ or social background/ or social class/ (123446)
social aspect/ (78557)
lowest income group/ or income group/ or working poor/ (30055)

social hierarchy/ (495)

social environment/ (34152)

(socioeconomic or socio-economic or SES or sociodemographic or socio-demographic or social factor$ or sociological factor$ or social class or working class or social hierarchy or social mobility or social deprivation or socially deprived or deprived area$ or economic status or poverty or poorer household$ or household income$).mp. (370319)

(social position or position in society or low$ income$ or social standing or social prestige).mp. (69540)

(social conditions or social environment$).mp. (43715)

or/5-16 (714802)

4 and 17 (3975)

disease activity/ or disease activity score/ (84211)

disease activity or clinical disease activity index or CDAI or simple disease activity index or SDAI).mp. (130599)

disease activity scor$ or DAS 28 or DAS28).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word] (29109)

eular or eular response or American College of Rheumatology response or ACR response).mp. (10979)

inflammation/ (462923)

Inflammation.mp. (965475)

remission/ (216300)

remission.mp. (311526)

refractory.mp. (224608)

difficult-to-treat.mp. (20915)

(resistant adj2 (disease or rheumatoid arthritis)).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word] (6913)

(ra and resistant and (musculoskeletal or rheumatic)).mp. (253)

D2T RA.mp. (6)

disease severity/ (593031)

(severity adj2 (disease or illness)).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word] (660943)
34  (burden adj2 disease).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word] (57419)
35  or/20-34 (2193394)
36  18 and 35 (1619)
37  conference.pt. (4840516)
38  36 not 37 (822) Number of references left when conference abstracts removed.
39  36 not 38 (797) Number of conference abstracts (i.e. 1619 minus 822 = 797)

3) Database: Cochrane Databases (Systematic Reviews, Register of Controlled Clinical Trials, Methodology Register) (Date run: 17/03/2021 14:50:57)
ID  Search   Hits
#1  MeSH descriptor: [Arthritis, Rheumatoid] explode all trees 6170
#2  "rheumatoid arthritis" 16366
#3  ra and (musculoskeletal or rheumatic) 3630
#4  #1 or #2 or #3 17694
#5  MeSH descriptor: [Socioeconomic Factors] explode all trees 9898
#6  MeSH descriptor: [Economic Factors] this term only 0
#7  MeSH descriptor: [Economic Status] this term only 2
#8  MeSH descriptor: [Poverty] this term only 1480
#9  MeSH descriptor: [Poverty Areas] this term only 280
#10 MeSH descriptor: [Social Class] this term only 647
#11 MeSH descriptor: [Social Mobility] this term only 5
#12 MeSH descriptor: [Social Factors] this term only 0
#13 MeSH descriptor: [Hierarchy, Social] this term only 15
#14 MeSH descriptor: [Social Conditions] this term only 21
#15 MeSH descriptor: [Social Environment] this term only 889
#16 socioeconomic or socio-economic or SES or sociodemographic or socio-demographic or social NEXT factor* or sociological NEXT factor* or "social class" or "working class" or "social hierarchy" or "social mobility" or "social deprivation" or "socially deprived" or deprived NEXT area* or "economic status" or poverty or poorer NEXT household* or household NEXT income* 19472
"social position" or "position in society" or low* NEXT income* or "social standing" or "social prestige"

"social conditions" or social NEXT environment* 1674

#5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18

#4 and #19 286

disease activity or "clinical disease activity index" or CDAI or "simple disease activity index" or SDAI 13068

disease activity NEXT scor* or "DAS 28" or DAS28 8330

eular or "eular response" or "American College of Rheumatology response" or "ACR response"

MeSH descriptor: [Inflammation] explode all trees 11246

Inflammation 43945

remission 34511

refractory 19080

difficult-to-treat 1852

resistant NEAR/2 (disease or rheumatoid arthritis) 533

ra and resistant and (musculoskeletal or rheumatic) 38

"D2T RA" 0

MeSH descriptor: [Severity of Illness Index] explode all trees 20203

severity NEAR/2 (disease or illness) 43636

burden NEAR/2 disease 2851

#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

#20 and #35 184

4) Database: International HTA database (Date run: 17/03/2021)

(burden AND disease)

OR

(severity AND (disease or illness))

OR

("Severity of Illness Index"[mh])

OR
(D2T RA)
OR
(ra AND resistant AND (musculoskeletal or rheumatic))
OR
(resistant AND (disease or rheumatoid arthritis))
OR
(difficult-to-treat)
OR
(refractory)
OR
(remission)
OR
(Inflammation)
OR
(“Inflammation”[mhe])
OR
(eular or eular response or American College of Rheumatology response or ACR response)
OR
(disease activity scors* or DAS 28 or DAS28)
OR
(disease activity or clinical disease activity index or CDAI or simple disease activity index or SDAI)
AND
(social conditions or social environment*)
OR
(social position or position in society or low* income* or social standing or social prestige)
OR
(socioeconomic or socio-economic or SES or sociodemographic or socio-demographic or social factor* or sociological factor* or social class or working class or social hierarchy or social mobility or social deprivation or socially deprived or deprived area* or economic status or poverty or poorer household* or household income*)
OR
(“Social Environment”[mh])
OR
("Social Conditions"[mh])
OR
("Hierarchy, Social"[mh])
OR
("Social Mobility"[mh])
OR
("Social Class"[mh])
OR
("Poverty Areas"[mh])
OR
("Poverty"[mh])
OR
("Economic Status"[mh])
OR
("Socioeconomic Factors"[mhe]))
AND
(ra and (musculoskeletal or rheumatic))
OR
(rheumatoid arthritis)
OR
("Arthritis, Rheumatoid"[mhe])

Total number retrieved 102 refs

5) Database: APA PsycInfo <1967 to March Week 2 2021>

Search Strategy:

1  rheumatoid arthritis/ (1928)
2  rheumatoid arthritis.mp. (2868)
3  (ra and (musculoskeletal or rheumatic)).mp. (69)
4  or/1-3 (2871)
5  exp socioeconomic factors/ (84275)
6 socioeconomic status/ or family socioeconomic level/ or lower class/ or social class/ (36429)
7 social class/ or disadvantaged/ or lower class/ (15818)
8 income level/ or lower income level/ or financial strain/ (18258)
9 exp poverty/ or economic disadvantage/ or social disadvantage/ (11193)
10 poverty areas/ (614)
11 social environments/ (7385)
12 socioeconomic or socio-economic or SES or sociodemographic or socio-demographic or social factor$ or sociological factor$ or social class or working class or social hierarchy or social mobility or social deprivation or socially deprived or deprived area$ or economic status or poverty or poorer household$ or household income$).mp. (168694)
13 social position or position in society or low$ income$ or social standing or social prestige).mp. (29325)
14 social conditions or social environment$).mp. (43453)
15 or/5-14 (259638)
16 4 and 15 (173)
17 disease activity or clinical disease activity index or CDAI or simple disease activity index or SDAI).mp. (1519)
18 disease activity scor$ or DAS 28 or DAS28).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures, mesh] (97)
19 eular or eular response or American College of Rheumatology response or ACR response).mp. (16)
20 inflammation/ (10383)
21 Inflammation.mp. (21257)
22 symptom remission/ (544)
23 remission.mp. (15436)
24 refractory.mp. (9460)
25 difficult-to-treat.mp. (1838)
26 resistant adj2 (disease or rheumatoid arthritis)).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures, mesh] (74)
27 ra and resistant and (musculoskeletal or rheumatic)).mp. (0)
28 D2T RA.mp. (0)
29 "severity (disorders)"/ (18849)
30 severity adj2 (disease or illness)).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures, mesh] (9280)
31 (burden adj2 disease).mp. [mp=title, abstract, heading word, table of contents, key concepts, original title, tests & measures, mesh] (3468)
32 or/17-31 (75961)
33 16 and 32 (46)