

SUPPLEMENTARY APPENDIX 4: Search Strategies

2020 American College of Rheumatology Guideline for the Management of Gout

GOUT - SEARCH STRATEGIES

Syntax Guide for OVID Medline	
/ = At the end of a word or phrase means that it is searched as a subject heading	Exp = A command to retrieve all narrower subject headings (MeSH)
Adj = Adjacency; terms are adjacent to each other, in either direction ; adj3 = terms are within 3 words of each other, in either direction	\$ = unlimited truncation symbol ? = substitutes for one or no characters
Limit = Command to limit results to age groups, years, language, etc.	In process = Records that do not contain all indexing
ti,ab. = Word or phrase is searched for in the title and abstract	tw. = textword; in Medline, indexed words from title, abstract .kw. – keywords assigned by the author
.fs. = free-floating Medical Subject Heading [MeSH] subheading, i.e. attached to any MeSH in the record, e.g. dg.fs. = “diagnostic imaging”; tu.fs. = “therapeutic use”; dt = “drug therapy” dh = “diet therapy”	.pt. = publication type, e.g. randomized controlled trial
Additional Syntax Guide for OVID Embase	
.tw. = Words from title, abstract, and drug trade names	
Syntax Guide for Cochrane (Wiley)	
MeSH descriptor = Medical Subject Heading	ti,ab,kw = Word appears in title, abstract or keyword field of record; word variations are searched in title, abstract, keyword search
near/2 = Terms must be within two words of each other, e.g. psoria* near/2 axial SpA	Next = terms must be adjacent, e.g. nonsteroidal next anti-inflammatory* means that the term nonsteroidal must be adjacent to the term anti-inflammatory*
* = 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	

Database: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Daily and Versions(R) <1946 to September 21, 2018> updated through April 4, 2019

Search Strategy:

-
- 1 exp Gout/
 - 2 (gout or (gouty arthritides or gouty arthritis) or asymptomatic hyperuric?emia).tw,kw.
 - 3 1 or 2
 - 4 (tophus or tophi or tophaceous).tw,kw.
 - 5 symptom flare up/ or exp Recurrence/ or recurrence\$.tw,kw.
 - 6 (flare or flares or flaring).tw,kw.
 - 7 or/5-6
 - 8 Gout Suppressants/
 - 9 allopurinol/ or (allopurinol or Lopurin or Zyloprim or Alopriam).tw,kw.
 - 10 Febuxostat/ or (febuxostat or Uloric).tw,kw.
 - 11 Xanthine Oxidase Inhibitor\$.tw,kw.
 - 12 Probenecid/ or (Probenecid or Benemid).tw,kw.
 - 13 Uricosuric Agents/ or uricosuric\$.tw,kw.
 - 14 (Lesinurad or Zurampic).tw,kw.
 - 15 (pegloticase or Krystexxa).tw,kw.
 - 16 (urate lower\$ adj (therap\$ or treatment\$)).tw,kw.
 - 17 or/8-16
 - 18 (3 and 6 and 17) or (3 and 6) [PICO 1]
 - 19 exp Radiography/ or dg.fs. or exp Ultrasonography/ or exp Tomography/
 - 20 (radiograph\$ or "x-ray" or ultrasound or ultrasonograph\$ or imaging or Dual-energy CT or computed tomography or DECT or magnetic resonance or MRI).tw,kw.
 - 21 or/19-20
 - 22 (3 and 21 and 17) or (3 and 7 and 21) [PICO 2]
 - 23 (3 and 7) or (3 and 7 and 17) [PICO 3-5]
 - 24 (3 and 7 and 17) or (3 and 17) [PICO 6]
 - 25 3 and 17 [PICO 7, 10, 13-21, 23-26, 55]
 - 26 exp Allied Health Personnel/ or exp Nursing/ or exp Nurses/ or exp Nursing Staff/ or Occupational Therapy/ or Pharmacists/
 - 27 (physician assistant\$ or nurse\$ or nursing or occupational therapist\$ or physical therapist\$ or physiotherapist\$ or dietitian\$ or dietician\$ or nutritionist\$).tw,kw.

28 exp Rehabilitation/ or exp Physical Therapy Modalities/ or exp Health Education/ or nutrition
therapy/
29 or/26-28
30 3 and 17 and 29 [PICO 8]
31 exp Colchicine/ or (colchicine or Colcrys).tw,kw.
32 exp Anti-Inflammatory Agents, Non-Steroidal/ or (NSAID\$ or non-steroidal anti-inflammator\$
or nonsteroidal antiinflammator\$ or topical NSAID\$).tw,kw.
33 (aspirin or celecoxib or diclofenac or diflunisal or etoricoxib or etodolac or flurbiprofen or
ibuprofen or indomethacin or ketoprofen or ketorolac or mefenamic acid or meloxicam or
nabumetone or naproxen or oxaprozin or piroxicam or rofecoxib or salsalate or sulindac or
tolmetin).tw,kw.
34 (Cyclooxygenase adj2 inhibito\$).tw,kw.
35 betamethasone/ or exp dexamethasone/ or Prednisone/ or exp Prednisolone/ or exp
hydrocortisone/
36 (betamethasone or dexamethasone or prednisolone or prednisone or
hydrocortisone).tw,kw.
37 exp Methylprednisolone/ or Triamcinolone Acetonide/
38 (methylprednisolone or triamcinolone acetonide or triamcinolone hexacetonide).tw,kw.
39 (Glucocorticoids/ and exp Injections, Intra-Articular/) or (intra-articular glucocorticoid\$ or
intraarticular glucocorticoid\$).tw,kw.
40 (Anakinra or Kinaret or canakinumab or Ilaris or rilonacept or Arcalyst).tw,kw. or exp
Interleukin-1/tu
41 ((interleukin 1 or "IL 1") adj (inhibit\$ or blockade or blocking or block)).tw,kw.
42 or/31-40
43 3 and 17 and 42 [PICO 9]
44 exp Renal Dialysis/ or (h?emodialysis or renal dialysis or kidney dialysis).tw,kw.
45 3 and 44 and (9 or 10) [PICO 11]
46 ("HLA-B*5801" or " HLA-B*58:01" or Human leukocyte antigen-B*5801).tw,kw.
47 (3 and 9 and 46) or (3 and 9) [PICO 12]
48 African Americans/ or exp Asian Continental Ancestry Group/ or (African American\$ or
Korean\$ or Thai\$ or Chinese).tw,kw.
49 (3 and 9 and 46) or (3 and 9) or (3 and 9 and 46 and 48) [subset of PICO 12]
50 exp Cardiovascular Diseases/ or ((heart or cardiovascular or cardiac) adj2 disease\$).tw,kw.
51 exp Hypertension/ or (hypertensi\$ or high blood pressure or heart failure).tw,kw.
52 or/50-51
53 3 and 52 and 17 [PICO 22]

54 Uric Acid/ur or (urinary adj2 uric acid).tw,kw.
55 exp Nephrolithiasis/ or (nephrolithiasis or kidney calculi or kidney stone\$ or renal stone\$ or renal calculi\$).tw,kw.
56 3 and (12 or 13)
57 (56 and 54 and 55) or (56 and 54) [PICO 27, 29]
58 exp Bicarbonates/ or Citrates/
59 (((alkalinizing or alcalinizing) adj3 urine) or alkali salt\$).tw,kw.
60 3 and 17 and (58 or 59) [PICO 28]
61 exp Cryotherapy/ or Ice/ or ((topical adj2 ice) or ice pack\$ or ice slurr\$ or (topical adj2 cryotherapeut\$)).tw,kw.
62 (3 and 42 and 61) or (3 and 42) [PICO 30]
63 exp Adrenocorticotrophic Hormone/ or (Adrenocorticotrophic or ACTH or corticotropin).tw,kw.
64 3 and (17 or 63) [PICO 31]
65 3 and 7 and (40 or 41) [PICO 32]
66 3 and 42 [PICO 33-39a]
67 exp Drinking Behavior/ or exp Alcohol-Related Disorders/ or (((limit\$ or abstain\$ or abstinence) adj3 alcohol\$) or drinking).tw,kw. or (wine or beer or liquor).tw,kw.
68 3 and 67 [PICO 39b, 48]
69 exp Purines/ or (purine\$ or fish or seafood or shellfish or anchov\$ or sardine\$ or herring or mussel\$ or codfish or scallop\$ or mollusc\$ or trout or haddock).tw,kw.
70 (bacon or turkey or veal or venison or organ meat\$ or liver or kidney\$).tw,kw.
71 or/69-70
72 3 and 71 [PICO 40, 49]
73 High Fructose Corn Syrup/ or Fructose/ or (HFCS or high fructose or soft drink\$).tw,kw.
74 3 and 73 [PICO 41, 50]
75 exp Milk Proteins/ or (dairy or milk or cheese\$ or yogurt\$).tw,kw.
76 3 and 75 [PICO 42, 51]
77 Dietary Approaches To Stop Hypertension/ or exp Diet/ or dh.fs. or (Dietary approaches to stop hypertension or DASH or diet).tw,kw.
78 3 and 77 [PICO 43, 52]
79 exp body weight changes/ or (weight adj2 (loss or losing or reduction)).tw,kw.
80 (obese or obesity or overweight).tw,kw.
81 or/79-80
82 3 and 81 [PICO 44, 53]

- 83 Fenofibrate/ or Losartan/ or Benzbromarone/ or Sulfinpyrazone/ or exp Hydrochlorothiazide/
or Chlorthalidone/ or Canagliflozin/ or Sodium-Glucose Transporter 2/ or Sevelamer/ or exp
Aspirin/ or Atorvastatin Calcium/ or Bumetanide/ or Ethacrynic Acid/ or Furosemide/ or
Metolazone/ or Indapamide/ or Niacin/ or Cyclosporine/ or Tacrolimus/ or Losartan/
84 (fenofibrate or losartan or benzbromarone or sulfinpyrazone or hydrochlorothiazide or
chlorthalidone or canagliflozin or "sodium-glucose transporter 2" or sevelamer or aspirin or
atorvastatin or bumetanide or ethacrynic acid or furosemide or metolazone or indapamide or
niacin or cyclosporine\$ or tacrolimus or losartan or Rasburicase).tw,kw.
- 85 3 and (83 or 84) [PICO 45, 54]
- 86 exp Ascorbic Acid/ or (ascorbic acid or vitamin C).tw,kw.
- 87 3 and 86 [PICO 46]
- 88 Prunus avium/ or (cherry extract\$ or cherry or cherries or Prunus avium).tw,kw.
- 89 3 and 88 [PICO 47]
- 90 18 or 22 or 23 or 24 or 25 or 30 or 43 or 45 or 47 or 49 or 53 or 57 or 60 or 62 or 64 or 65 or
66 or 68 or 72 or 74 or 76 or 78 or 82 or 85 or 87 or 89
- 91 (MEDLINE or systematic review).tw. or meta analysis.pt. [McMaster University Health
Research Information Unit. Filter for identifying reviews - best balance of specificity and
sensitivity https://hiru.mcmaster.ca/hiru/HIRU_Hedges_MEDLINE_Strategies.aspx]
- 92 (randomized controlled trial or controlled clinical trial).pt. or (randomized or placebo).ab. or
drug therapy.fs. or (randomly or trial or groups).ab. [Cochrane Highly Sensitive Search
Strategy for identifying randomized trials in Ovid MED]
- 93 epidemiologic studies/ or exp case control studies/ or exp cohort studies/ or Cross-sectional
studies/
94 case control.tw.
95 (cohort adj (study or studies)).tw.
96 cohort analy\$.tw.
97 (Follow up adj (study or studies)).tw.
98 (Observational adj (study or studies)).tw.
99 (longitudinal or retrospective or cross sectional).tw.
- 100 or/93-99 OVID Observational Studies search filter –Medline
[https://sites.google.com/a/york.ac.uk/issg-search-filters-resource/filters-to-identify-observational-
studies](https://sites.google.com/a/york.ac.uk/issg-search-filters-resource/filters-to-identify-observational-studies)
- 101 91 or 92 or 100
- 102 90 and 101 [Gout and interventions/comparators and study designs]

103 limit 102 to in process
104 limit 102 to "all adult (19 plus years)"
105 limit 104 to english language
106 exp "costs and cost analysis"/ or costs.tw. or cost effective:.tw. [McMaster HIRU Costs, OVID Medline https://hiru.mcmaster.ca/hiru/HIRU_Hedges_MEDLINE_Strategies.aspx]
107 Economics/ or exp "Costs and Cost Analysis"/ or Economics, Nursing/ or Economics, Medical/ or Economics, Pharmaceutical/ or exp Economics, Hospital/
108 exp "Fees and Charges"/ or exp Budgets/ or budget*.ti,ab,kf.
109 (economic* or cost or costs or costly or costing or price or prices or pricing or pharmaco-economic* or pharmaco-economic* or expenditure or expenditures or expense or expenses or financial or finance or finances or financed).ti,ab.
110 (cost* adj2 (effective* or utilit* or benefit* or minimi* or analy* or outcome or outcomes)).ab,kw. or (value adj2 (money or monetary)).ti,ab,kw. or Statistical Model/ or economic model*.ab,kw.
111 Probability/ or markov.ti,ab,kw. or monte carlo method/ or monte carlo.ti,ab,kw. or Decision Theory/ or Decision Tree/ or (decision* adj2 (tree* or analy* or model*)).ti,ab,kw.
112 or/107-111 [CADTH <https://sites.google.com/a/york.ac.uk/issg-search-filters-resource/filters-to-find-i>]
113 90 and (106 or 112)
114 limit 113 to in process
115 limit 113 to "all adult (19 plus years)"
116 limit 115 to english language
117 103 or 105 or 114 or 116 [GOUT AND Interventions/Comp AND (study designs or cost filter)]

Database: Embase <1974 to 2018 September 21>, updated through April 4, 2019

Search Strategy:

-
- 1 gout/
 - 2 (gout or gouty arthritides or gouty arthritis or asymptomatic hyperuric?emia).tw.
 - 3 1 or 2
 - 4 (tophus or tophi or tophaceous).tw.
 - 5 (flare or flares or flaring).tw.
 - 6 antigout agent/
 - 7 allopurinol/ or (Lopurin or Zyloprim or Aloprim).tw.
 - 8 febuxostat/ or (febuxostat or Uloric).tw.
 - 9 xanthine oxidase inhibitor/ or xanthine oxidase inhibitor\$.tw.
 - 10 probenecid/ or (probenecid or Benemid).tw.
 - 11 uricosuric agent/ or uricosuric\$.tw.
 - 12 lesinurad/ or (Lesinurad or Zurampic).tw.
 - 13 pegloticase/ or (pegloticase or Krystexxa).tw.
 - 14 (urate lowering therapy or urate lowering treatment).tw.
 - 15 or/6-14
 - 16 3 and (4 or 5) and 15 [PICO 1]
 - 17 exp radiography/ or ultrasound/ or exp echography/ or exp tomography/
 - 18 (radiograph\$ or "x-ray" or ultrasound or ultrasonograph\$ or Dual-energy CT or computed tomography or DECT or magnetic resonance imaging or MRI).tw.
 - 19 or/17-18
 - 20 (3 and 19 and 15) or (3 and 19) [PICO 2]
 - 21 (3 and 5 and 15) or (3 and 5) [PICO 3-6]
 - 22 3 and 15 [PICO 7, 55] [GOUT AND DRUGS]
 - 23 exp paramedical personnel/
 - 24 (nurse\$ or nursing or occupational therap\$ or physical therap\$ or physiotherap\$ or pharmacist\$ or dietitian\$ or dietician\$ or nutritionist\$).ti,ab.
 - 25 physiotherapy/
 - 26 exp rehabilitation/
 - 27 exp nursing/
 - 28 exp counseling/
 - 29 pharmacy/

30 exp nutrition/
31 patient education/
32 or/23-31
33 3 and 15 and 32 [PICO 8]
34 colchicine/
35 (colchicine or Colcrys).tw.
36 exp nonsteroid antiinflammatory agent/
37 ((nonsteroidal or non-steroidal) adj (anti-inflammatory or antiinflammatory)).ti,ab.
38 NSAID\$.ti,ab.
39 (aspirin or celecoxib or diclofenac or diflusal or etoricoxib or etodolac or flurbiprofen or
ibuprofen or indomethacin r ketoprofen or ketorolac or mefenamic acid or meloxicam or
nabumetone or naproxen or oxaprozin or piroxicam or rofecoxib or salsalate or sulindac or
tolmetin).tw.
40 (cyclooxygenase adj2 inhibitor\$.ti,ab.
41 betamethasone/
42 dexamethasone/
43 prednisone/
44 prednisolone/
45 hydrocortisone/
46 methylprednisolone/
47 triamcinolone/
48 triamcinolone acetonide/
49 triamcinolone hexacetonide/
50 exp glucocorticoid/
51 injection/
52 50 and 51
53 exp intraarticular drug administration/
54 50 and 53
55 anakinra/
56 canakinumab/
57 rilonacept/
58 interleukin 1/dt [Drug Therapy]
59 or/34-49,52,54-58
60 (3 and 15 and 59) or (3 and 15) [PICO 9-10]

61 hemodialysis/
62 (3 and 7) or (3 and 8) [PICO 11]
63 "HLA-B*5801".ti,ab.
64 (3 and 63) or (3 and 7) [PICO 12]
65 african american/ or chinese/ or "thai (people)"/ or "korean (people)"/
66 3 and 63 and 65 [Subset of PICO 12]
67 3 and 15 [PICO 13-21]
68 exp cardiovascular disease/
69 (3 and 68 and 8) or (3 and 68 and 15) [PICO 22]
70 uric acid blood level/
71 serum urate target.ti,ab.
72 70 or 71
73 3 and 72 and (4 or 5) and 15 [PICO 23-26]
74 uric acid urine level/
75 urinary uric acid.ti,ab.
76 74 or 75
77 nephrolithiasis/
78 (3 and 76 and 15 and 77) or (3 and 15 and 77) [PICO 27]
79 alkalinizing agent/ or bicarbonate/ or alkalinizing urine.ti,ab.
80 (3 and 15 and 79 and 77) or (3 and 15 and 77) [PICO 28]
81 (3 and 72 and 15 and 77) or (3 and 15 and 77) [PICO 29]
82 ice/ or cryotherapy/
83 3 and 59 and 82 [PICO 30]
84 corticotropin/ or (ACTH or Adrenocorticotropic hormone).ti,ab.
85 3 and (15 or 84) [PICO 31]
86 3 and (55 or 56 or 57 or 58)
87 exp analgesic agent/
88 3 and 87
89 86 or 88 [PICO 32]
90 3 and 59 [PICO 33-38,39a]
91 drinking behavior/ or alcoholism/
92 ((limit\$ or decreas\$ or abstain\$) adj2 (alcohol or wine or liquor or beer)).ti,ab.
93 or/91-92
94 3 and 93 [PICO 39b,48]

95 exp purine derivative/
96 exp sea food/
97 95 or 96
98 3 and 97 [PICO 40, 49]
99 corn syrup/
100 fructose/
101 HFCS.ti,ab.
102 99 or 100 or 101
103 3 and 102 [PICO 41, 50]
104 body weight loss/ or weight loss program/ or body weight maintenance/ or exp obesity/ or
overweight.ti,ab.
105 3 and 104 [PICO 44, 53]
106 exp dairy product/
107 3 and 106 [PICO 42, 51]
108 dash diet/ or "Dietary Approaches to Stop Hypertension".ti,ab.
109 diet therapy/ or diet/
110 (3 and 108) or (3 and 109) [PICO 43, 52]
111 fenofibrate/
112 losartan/
113 benzbromarone/
114 sulfapyrazone/
115 hydrochlorothiazide/
116 chlortalidone/
117 canagliflozin/
118 sodium glucose cotransporter 2/
119 sevelamer/
120 acetylsalicylic acid/
121 atorvastatin/
122 bumetanide/
123 etacrynic acid/
124 furosemide/
125 metolazone/
126 indapamide/
127 nicotinic acid/

128 cyclosporine/
129 tacrolimus/
130 rasburicase/
131 or/111-130
132 3 and 131 [PICO 45, 54]
133 ascorbic acid/
134 3 and 133 [PICO 46]
135 exp cherry/ or (cherry adj2 extract).ti,ab.
136 3 and 135 [PICO 47]
137 meta-analys:.mp. or search:.tw. or review.pt. [Embase systematic review filter, Wilczynski and Haynes, Best optimization]
<https://bmcmedresmethodol.biomedcentral.com/articles/10.1186/1471-2288-12-51>
138 random:.tw. or placebo:.mp. or double-blind:.tw. [McMaster Health Information Research Unit review filter Best balance of sensitivity and specificity.
https://hiru.mcmaster.ca/hiru/HIRU_Hedges_EMBASE_Strategies.aspx]
139 exp cohort analysis/ or exp longitudinal study/ or exp prospective study/ or exp follow up/ or cohort\$.tw. or exp case control study/ or (case\$ and control\$).tw.
140 observational stud\$.tw.
141 or/139-140 [BMJ Embase cohort and case-control strategy, with observational studies.
<https://bestpractice.bmj.com/info/toolkit/learn-embs/study-design-search-filters/>]
142 (cost or costs).tw. [McMaster Embase Economics filter Best balance of sensitivity and specificity.
https://hiru.mcmaster.ca/hiru/HIRU_Hedges_EMBASE_Strategies.aspx]
143 Economics/
144 Cost/
145 exp Health Economics/
146 Budget/
147 budget*.ti,ab,kw.
148 (economic* or cost or costs or costly or costing or price or prices or pricing or pharmaco-economic* or pharmaco-economic* or expenditure or expenditures or expense or expenses or financial or finance or finances or financed).ti,kw.
149 (economic* or cost or costs or costly or costing or price or prices or pricing or pharmaco-economic* or pharmaco-economic* or expenditure or expenditures or expense or expenses or financial or finance or finances or financed).ab. /freq=2
150 (cost* adj2 (effective* or utilit* or benefit* or minimi* or analy* or outcome or outcomes)).ab,kw.
151 (value adj2 (money or monetary)).ti,ab,kw.

152 Statistical Model/
153 economic model*.ab,kw.
154 Probability/
155 markov.ti,ab,kw.
156 monte carlo method/
157 monte carlo.ti,ab,kw.
158 Decision Theory/
159 Decision Tree/
160 (decision* adj2 (tree* or analy* or model*)).ti,ab,kw.
161 or/143-160 [CADTH filter. Economic Evaluations/Cost/Economic Models – OVID Embase
<https://www.cadth.ca/resources/finding-evidence/strings-attached-cadths-database-search-filters#health>]
162 137 or 138 or 141
163 16 or 20 or 21 or 22 or 33 or 60 or 62 or 64 or 66 or 67 or 69 or 73 or 78 or 80 or 81 or 83
or 85 or 89 or 90 or 94 or 98 or 103 or 105 or 107 or 110 or 132 or 134 or 136
164 162 and 163
165 limit 164 to adult <18 to 64 years>
166 limit 164 to aged <65+ years>
167 165 or 166
168 limit 167 to english language
169 limit 168 to conference proceeding
170 limit 168 to conference abstracts
171 limit 168 to conference paper
172 or/169-171
173 168 not 172
174 limit 173 to embase
175 163 and (142 or 161)
176 limit 175 to conference abstract
177 limit 175 to conference paper
178 limit 175 to "conference review"
179 or/176-178
180 175 not 179
181 limit 180 to adult <18 to 64 years>
182 limit 180 to aged <65+ years>
183 181 or 182

184 limit 183 to english language

185 limit 184 to embase

186 174 or 185

Database: Cochrane Library

Search Name: Gout 2018

Last Saved: 24/09/2018 00:33:44, updated through April 4, 2019

- #1 MeSH descriptor: [Gout] explode all trees
- #2 (gout or gouty arthritides or gouty arthritis or asymptomatic hyperuricaemia or asymptomatic hyperuricemia):ti,ab,kw
- #3 #1 or #2
- #4 MeSH descriptor: [Allopurinol] this term only
- #5 (allopurinol or Lopurin or Zyloprim or Alopriam):ti,ab,kw
- #6 MeSH descriptor: [Febuxostat] this term only
- #7 (febuxostat or Uloric):ti,ab,kw
- #8 (xanthine oxidase inhibitor*):ti,ab,kw
- #9 MeSH descriptor: [Probenecid] this term only
- #10 (probenecid or benemid):ti,ab,kw
- #11 (uricosuric*):ti,ab,kw
- #12 (lesinurad or Zurampic):ti,ab,kw
- #13 (pegloticase or Krystexxa):ti,ab,kw
- #14 (urate lowering therapy or urate lowering therapies or urate-lowering therapy or urate-lowering therapies or urate lowering treatment*):ti,ab,kw
- #15 {OR #4-#14}
- #16 #3 and #15
- #17 MeSH descriptor: [Colchicine] explode all trees
- #18 MeSH descriptor: [Anti-Inflammatory Agents, Non-Steroidal] explode all trees
- #19 (NSAID* or non-steroidal anti-inflammatory* or nonsteroidal antiinflammator*):ti,ab,kw
- #20 (aspirin or celecoxib or diclofenac or diflunisal or etoricoxib or etodolac or flurbiprofen or ibuprofen or indomethacin or ketoprofen or ketorolac or mefenamic acid or meloxicam or nabmetone or naproxen or oxaprozin or piroxicam or rofecoxib or salsalate or sulindac or tolmetin):ti,ab,kw
- #21 (cyclooxygenase inhibitor*):ti,ab,kw
- #22 MeSH descriptor: [Betamethasone Valerate] explode all trees
- #23 MeSH descriptor: [Dexamethasone Isonicotinate] explode all trees
- #24 MeSH descriptor: [Prednisone] this term only
- #25 MeSH descriptor: [Prednisolone] explode all trees
- #26 MeSH descriptor: [Hydrocortisone] explode all trees

- #27 (betamethasone or dexamethasone or prednisone or prednisolone or hydrocortisone):ti,ab,kw
- #28 MeSH descriptor: [Methylprednisolone] explode all trees
- #29 MeSH descriptor: [Triamcinolone] this term only
- #30 (methylprednisolone or triamcinolone acetonide or triamcinolone hexacetonide):ti,ab,kw
- #31 MeSH descriptor: [Glucocorticoids] this term only
- #32 MeSH descriptor: [Injections] explode all trees
- #33 #31 and #32
- #34 (intra-articular glucocorticoid* or intraarticular glucocorticoid*):ti,ab,kw
- #35 MeSH descriptor: [Interleukin 1 Receptor Antagonist Protein] this term only
- #36 (anakinra or kinaret or canakinumab or ilaris or rilonacept or arcalyst):ti,ab,kw
- #37 MeSH descriptor: [Interleukin-1] explode all trees and with qualifier(s): [therapeutic use - TU]
- #38 #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 #33 or #34 or #35 or #36 or #37
- #39 #3 and #38
- #40 MeSH descriptor: [Adrenocorticotrophic Hormone] explode all trees
- #41 (adrenocorticotrophic or ACTH or corticotropin):ti,ab,kw
- #42 {OR #40-#41}
- #43 #3 and #42
- #44 MeSH descriptor: [Drinking Behavior] explode all trees
- #45 MeSH descriptor: [Alcohol-Related Disorders] explode all trees
- #46 limit alcohol or limits alcohol or limiting alcohol or abstaining or abstinence or limit drinking or limits drinking or limiting drinking or wine or beer or liquor
- #47 {OR #44-#46}
- #48 #3 and #47
- #49 MeSH descriptor: [Purines] explode all trees
- #50 (purine* or fish or seafood or shellfish or anchovy or anchovies or sardines or herring or mussels or codfish or scallops or molluscs or trout or haddock or bacon or turkey or veal or venison or organ meats):ti,ab,kw
- #51 {OR #49-#50}
- #52 #3 and #51
- #53 MeSH descriptor: [High Fructose Corn Syrup] this term only
- #54 MeSH descriptor: [Fructose] this term only
- #55 (HFCS or high fructose or soft drink*):ti,ab,kw

- #56 {OR #53-#55}
- #57 #3 and #56
- #58 MeSH descriptor: [Milk Proteins] explode all trees
- #59 (dairy or milk of cheese or yogurt or kefir):ti,ab,kw
- #60 {OR #58-#59}
- #61 #3 and #60
- #62 MeSH descriptor: [Dietary Approaches To Stop Hypertension] this term only
- #63 MeSH descriptor: [Diet] explode all trees
- #64 (diet* or DASH):ti,ab,kw
- #65 {OR #62-#64}
- #66 #3 and #65
- #67 MeSH descriptor: [Body Weight Changes] explode all trees
- #68 MeSH descriptor: [Overweight] explode all trees
- #69 (weight loss or weight reduction or lose weight or losing weight or obese or obesity or overweight):ti,ab,kw
- #70 {OR #67-#69}
- #71 #3 and #70
- #72 MeSH descriptor: [Fenofibrate] this term only
- #73 MeSH descriptor: [Losartan] this term only
- #74 MeSH descriptor: [Benzbromarone] explode all trees
- #75 MeSH descriptor: [Sulfinpyrazone] this term only
- #76 MeSH descriptor: [Hydrochlorothiazide] explode all trees
- #77 MeSH descriptor: [Chlorthalidone] this term only
- #78 MeSH descriptor: [Canagliflozin] this term only
- #79 MeSH descriptor: [Sodium-Glucose Transporter 2] this term only
- #80 MeSH descriptor: [Sevelamer] this term only
- #81 MeSH descriptor: [Aspirin, Dipyridamole Drug Combination] explode all trees
- #82 MeSH descriptor: [Atorvastatin Calcium] this term only
- #83 MeSH descriptor: [Bumetanide] this term only
- #84 MeSH descriptor: [Ethacrynic Acid] this term only
- #85 MeSH descriptor: [Furosemide] this term only
- #86 MeSH descriptor: [Metolazone] this term only
- #87 MeSH descriptor: [Indapamide] this term only
- #88 MeSH descriptor: [Niacin] this term only

- #89 MeSH descriptor: [Cyclosporine] this term only
- #90 MeSH descriptor: [Tacrolimus] this term only
- #91 MeSH descriptor: [Losartan] this term only
- #92 (fenofibrate or losartan or benzbromarone or sulfapyrazone or hydrochlorothiazide or chlorthalidone or canagfloxin or "sodium-glucos transportef 2" or sevelamer or aspirin or atorvastatin or bumetanide or ethacynic acid or furosemide or metolazane or indapamide or niacin or cyclosporine or tacrolimum or losartan or rasburicase):ti,ab,kw
- #93 {OR #72-#92}
- #94 #3 and #93
- #95 MeSH descriptor: [Ascorbic Acid] explode all trees
- #96 (ascorbic acid or "vitamin c"):ti,ab,kw
- #97 {OR #95-#96}
- #98 #3 and #97
- #99 MeSH descriptor: [Prunus avium] this term only
- #100 (cherry extract or cherry or cherries or prunus avium):ti,ab,kw
- #101 {OR #99-#100}
- #102 #3 and #101
- #103 #16 or #39 or #43 or #48 or #52 or #57 or #61 or #66 or #71 or #94 or #98 or #102