

Acne vulgaris: management

Literature search strategies

NICE guideline tbc

Literature search strategies

December 2020

Early submission

*Search strategies were developed by
National Guideline Alliance which is part of
the Royal College of Obstetricians and
Gynaecologists*

Disclaimer

The recommendations in this guideline represent the view of NICE, arrived at after careful consideration of the evidence available. When exercising their judgement, professionals are expected to take this guideline fully into account, alongside the individual needs, preferences and values of their patients or service users. The recommendations in this guideline are not mandatory and the guideline does not override the responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient, in consultation with the patient and/or their carer or guardian.

Local commissioners and/or providers have a responsibility to enable the guideline to be applied when individual health professionals and their patients or service users wish to use it. They should do so in the context of local and national priorities for funding and developing services, and in light of their duties to have due regard to the need to eliminate unlawful discrimination, to advance equality of opportunity and to reduce health inequalities. Nothing in this guideline should be interpreted in a way that would be inconsistent with compliance with those duties.

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Contents

Literature search strategies	5
A. Skin care advice	5
Literature search strategies for question 1.1	5
B. Network Meta-Analyses (also relevant for the related pairwise analyses including subgroups of people with polycystic ovary syndrome, maintenance resistant treatment and people with refractory acne)	7
Literature search strategies for questions 2.1-6.3 & 9.1	7
Q2.1 Topical interventions (including topical retinoids)	7
Q3.1, 4.1, 5.1 Oral antibiotics and oral isotretinoin	11
Q6.1, 6.2, 6.3 Hormonal interventions	15
Q9.1 Physical interventions	18
C. Isotretinoin.....	21
Literature search strategies for questions 7.1 and 8.1	21
D. Intralesional steroids	25
Literature search strategies for question 9.2	25
E. Dietary interventions.....	27
Literature search strategies for question 10.1	27
F. Scarring risk factors.....	29
Literature search strategies for question 11.1	29
G. Management of scarring.....	31
Literature search strategies for question 12.1	31
H. Information and support.....	35
Literature search strategies for question 13.1	35
I. Referral	39
Literature search strategies for question 14.1	39
J. Health Economics	40
Literature search strategies for health economics.....	40
Literature search strategies for health utility values	41

1 Literature search strategies

A. Skin care advice

Literature search strategies for question 1.1

4 Date of search: 11/06/2019

5 Database(s): Embase Classic+Embase 1947 to 2019 June 04, Ovid MEDLINE(R) and Epub
6 Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to June 04, 2019

7 Multifile database codes: emczd = Embase Classic+Embase; ppez= MEDLINE(R) and Epub Ahead of
8 Print, In-Process & Other Non-Indexed Citations and Daily

#	Searches
1	exp Acne Vulgaris/ use ppez
2	exp acne/ use emczd
3	acne.tw.
4	or/1-3
5	(exp counseling/ or education/ or health education/ or exp health promotion/ or medical information/ or patient education/ or patient information/ or patient preference/ or patient satisfaction/ or public health/) use emczd
6	(exp Counseling/ or Education/ or exp Health Education/ or Nurses Instruction/ or Patient Education as Topic/ or exp Patient Satisfaction/ or Programmed Instruction/) use ppez
7	(advice or advis* or counsel* or direct* or educat* or encourag* or guid* or indicat* or instruct* or promot* or recommend* or suggest*).tw.
8	or/5-7
9	(skin care/ or skin protection/) use emczd
10	exp Skin Care/ use ppez
11	hygiene/
12	(detergent/ or soap/) use emczd
13	exp water/
14	exp dermatological agent/ use emczd
15	topical antiinfective agent/ use emczd
16	exp Surface-Active Agents/ use ppez
17	exp Dermatologic Agents/ use ppez
18	exp Anti-Infective Agents, Local/ use ppez
19	exp Astringents/ use ppez
20	benzoyl peroxide/
21	salicylic acid/
22	(sunburn/pc or exp sunscreen/) use emczd
23	(Sunburn/pc or exp Sunscreening Agents/) use ppez
24	(antiseptic* or astringent* or cleans* or cloth*1 or cosmetic*1 or dermocosmetic* or detergent* or emollient* or hygien* or keratolytic* or lotion* or makeup or make-up or moisturi* or noncomedogenic or non-comedogenic or photoprotect* or photo-protect* or soap* or syndet or sunscreen* or sunblock* or (sun adj1 (block* or cream* or lotion* or protect*)) or wash* or water* or wipe*).tw.
25	(azelaic acid* or benzoyl peroxide* or hydroxy acid* or glycolate* or glycolic acid* or lactate* or lactic acid* or niacinamide or retinol or retinoid* or salicylic acid* or tea tree oil* or zinc acetate).tw.
26	(skincare or (skin adj2 (care or practic* or product* or regimen* or routine*))).tw.
27	or/9-26
28	4 and 8 and 27
29	limit 28 to english language
30	Letter/ use ppez
31	letter.pt. or letter/ use emczd
32	note.pt.
33	editorial.pt.
34	Editorial/ use ppez
35	News/ use ppez
36	exp Historical Article/ use ppez
37	Anecdotes as Topic/ use ppez
38	Comment/ use ppez
39	Case Report/ use ppez
40	case report/ or case study/ use emczd

EARLY SUBMISSION

#	Searches
41	(letter or comment*).ti.
42	or/30-41
43	randomized controlled trial/ use ppez
44	randomized controlled trial/ use emczd
45	random*.ti,ab.
46	or/43-45
47	42 not 46
48	animals/ not humans/ use ppez
49	animal/ not human/ use emczd
50	nonhuman/ use emczd
51	exp Animals, Laboratory/ use ppez
52	exp Animal Experimentation/ use ppez
53	exp Animal Experiment/ use emczd
54	exp Experimental Animal/ use emczd
55	exp Models, Animal/ use ppez
56	animal model/ use emczd
57	exp Rodentia/ use ppez
58	exp Rodent/ use emczd
59	(rat or rats or mouse or mice).ti.
60	or/47-59
61	29 not 60
62	clinical Trials as topic.sh. or (controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or (placebo or randomi#ed or randomly).ab. or trial.ti.
63	62 use ppez
64	(controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or drug therapy.fs. or (groups or placebo or randomi#ed or randomly or trial).ab.
65	64 use ppez
66	crossover procedure/ or double blind procedure/ or randomized controlled trial/ or single blind procedure/ or (assign* or allocat* or crossover* or cross over* or ((doubl* or singl*) adj blind*) or factorial* or placebo* or random* or volunteer*).ti,ab.
67	66 use emczd
68	63 or 65
69	67 or 68
70	Meta-Analysis/
71	exp Meta-Analysis as Topic/
72	systematic review/
73	meta-analysis/
74	(meta analy* or metanaly* or metaanaly*).ti,ab.
75	((systematic or evidence) adj2 (review* or overview*)),ti,ab.
76	((systematic* or evidence*) adj2 (review* or overview*)),ti,ab.
77	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
78	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
79	(search* adj4 literature).ab.
80	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
81	cochrane.jw.
82	((pool* or combined) adj2 (data or trials or studies or results)).ab.
83	(or/70-72,74,76-81) use ppez
84	(or/72-75,77-82) use emczd
85	or/83-84
86	69 or 85
87	61 and 86

1 Date of search: 11/06/2019

2 Database(s): The Cochrane Library: Cochrane Database of Systematic Reviews, Issue 6 of
3 12, June 2019; Cochrane Central Register of Controlled Trials, Issue 6 of 12, June 2019

ID	Search
#1	MeSH descriptor: [Acne Vulgaris] explode all trees
#2	acne:ti,ab
#3	#1 or #2
#4	MeSH descriptor: [Counseling] explode all trees
#5	MeSH descriptor: [Education] this term only
#6	MeSH descriptor: [Health Education] explode all trees
#7	MeSH descriptor: [Nurses Instruction] this term only

EARLY SUBMISSION

ID	Search
#8	MeSH descriptor: [Patient Education as Topic] this term only
#9	MeSH descriptor: [Programmed Instruction] this term only
#10	MeSH descriptor: [Patient Satisfaction] explode all trees
#11	(advice or advis* or counsel* or direct* or educat* or encourag* or guid* or indicat* or instruct* or promot* or recommend* or suggest*):ti,ab
#12	{or #4-#11}
#13	MeSH descriptor: [Skin Care] explode all trees
#14	MeSH descriptor: [Hygiene] this term only
#15	MeSH descriptor: [Water] explode all trees
#16	MeSH descriptor: [Surface-Active Agents] explode all trees
#17	MeSH descriptor: [Dermatologic Agents] explode all trees
#18	MeSH descriptor: [Anti-Infective Agents, Local] explode all trees
#19	MeSH descriptor: [Astringents] this term only
#20	MeSH descriptor: [Benzoyl Peroxide] explode all trees
#21	MeSH descriptor: [Salicylic Acid] explode all trees
#22	MeSH descriptor: [Sunburn] this term only and with qualifier(s): [prevention & control - PC]
#23	MeSH descriptor: [Sunscreening Agents] explode all trees
#24	(antiseptic* or astringent* or cleans* or cloth or cloths or cosmetic or cosmetics or dermocosmetic* or detergent* or emollient* or hygien* or keratolytic* or lotion* or makeup or make-up or moisturi* or noncomedogenic or non-comedogenic or photoprotect* or photo-protect* or soap* or syndet or sunscreen* or sunblock* or (sun near/1 (block* or cream* or lotion* or protect*)) or wash* or water* or wipe*):ti,ab
#25	(azelaic acid* or benzoyl peroxide* or hydroxy acid* or glycolate* or glycolic acid* or lactate* or lactic acid* or niacinamide or retinol or retinoid* or salicylic acid* or tea tree oil* or zinc acetate):ti,ab
#26	(skincare or (skin near/2 (care or practic* or product* or regimen* or routine*)):ti,ab
#27	{or #13-#26}
#28	#3 and #12 and #27

1

B. Network Meta-Analyses (also relevant for the related pairwise analyses including subgroups of people with polycystic ovary syndrome, maintenance resistant treatment and people with refractory acne)

Literature search strategies for questions 2.1-6.3 & 9.1

Q2.1 Topical interventions (including topical retinoids)

8 Date of initial search: 07/08/2019

9 Additional terms added and searched: 10/09/2019

10 Last searched: 07/05/2020

11 Database(s): Embase Classic+Embase 1947 to 2020 May 06, Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to May 06, 2020

13 Multibase database codes: emczd = Embase Classic+Embase; ppez= MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily

#	Searches
1	exp Acne Vulgaris/ use ppez
2	exp acne/ use emczd
3	acne.tw.
4	or/1-3
5	exp topical antiinfective agent/ use emczd
6	exp Anti-Infective Agents, Local/ use ppez
7	5 or 6
8	exp antibiotic agent/ use emczd
9	exp Anti-Bacterial Agents/ use ppez

EARLY SUBMISSION

#	Searches
10	exp anthelmintic agent/ use emczd
11	exp Anthelmintics/ use ppez
12	(antibiotic* or anti biotic* or anti bacteri* or antibacteri* or bacteriocid*).tw.
13	(anthelminti* or antihelmin* or anti-helmin* or antiparasit* or anti-parasit* or vermifug*).tw.
14	adapalene/
15	aluminum oxide/ use emczd
16	amoxicillin/
17	ampicillin/
18	avermectin/ use emczd
19	azelaic acid/
20	benzoyl peroxide plus clindamycin/ use emczd
21	benzoyl peroxide/
22	(Benzoyl Peroxide/ and Clindamycin/) use ppez
23	cefaclor/
24	cefadroxil/
25	cefalexin/ use emczd
26	Cephalexin/ use ppez
27	cefixime/
28	cefotaxime/
29	cefradine/ use emczd
30	Cephradine/ use ppez
31	ceftaroline/ use emczd
32	ceftazidime/
33	ceftriaxone/
34	cefuroxime/
35	chlorhexidine gluconate/
36	clarithromycin/
37	clindamycin/
38	dapsone/
39	doxycycline/
40	erythromycin/
41	erythromycin plus isotretinoin/ use emczd
42	flucloxacillin/ use emczd
43	Floxacin/ use ppez
44	fusidic acid/
45	isotretinoin/
46	isotretinoin/ and clindamycin/
47	ivermectin/
48	lymecycline/
49	metronidazole/
50	minocycline/
51	nadifloxacin/
52	nicotinamide/ use emczd
53	Niacinamide/ use ppez
54	nitroimidazole/ use emczd
55	ozenoxacin/
56	oxytetracycline/
57	penicillin G/
58	penicillin V/
59	(phenol/ and chlorhexidine digluconate/) use emczd
60	(phenol/ and chlorhexidine/) use ppez
61	piperacillin/
62	(pleuromutilin/ or pleuromutilin antibiotic agent/) use emczd
63	praziquantel/
64	pseudomonic acid/ use emczd
65	Mupirocin/ use ppez
66	retapamulin/ use emczd
67	retinol/ use emczd
68	Vitamin A/ use ppez
69	tetracycline/
70	ticarcillin/
71	retinoic acid/ use emczd
72	tazarotene/ use emczd
73	temocillin/ use emczd
74	tretinoin/ use ppez
75	triclocarban/ use emczd

EARLY SUBMISSION

#	Searches
76	triclosan/
77	trimethoprim/
78	zinc acetate/
79	(adapalene or aluminum oxide or ampicillin or amoxicillin or avermectin or azelaic acid or benzylpenicillin or benzylpenicillin or benzoyl peroxide or cefaclor or cefadroxil or cefalexin or cephalixin or cefixime or cefotaxime or cefradine or ceftaroline or ceftazidime or ceftriaxone or cefuroxime or cephalixin or cephalosporin* or cephamycin* or cephradine or chlorhexidine digluconate or chlorhexidine gluconate or clarithromycin or clindamycin or dapsone or diaminodiphenyl sulfone or doxycyclin* or erythromycin or floxacillin or flucloxacillin or fucidin or fusidic acid or fusidate sodium or sodium fusidate or germolene or isotretinoin* or ivermectin or lincosamide* or lymecycline or macrolide* or metronidazole or minocycline or nadifloxacin or niacinamide or nicotinamide or nitroimidazole or ozenoxacin or oxytetracycline or penicillin* or phenol or phenoxymethylpenicillin or piperacillin or pleuromutilin or praziquantel or cysticide or pseudomonic acid or mupirocin or quinoderm or quinolon* or retapamulin or tretinoin* or tretinoin* or tazarotene or temocillin or tetracyclin* or ticarcillin or tretinoin or triclocarban or triclosan or triclozan or trimethoprim or vitamin a or vitamin b3 or zinc acetate).tw.
80	or/7-79
81	(topical or topically or cream? or emulsi* or gel? or foam? or ointment* or solution? or lotion? or pad?).tw.
82	(ointment/ or exp gel/) use emczd
83	(Ointments/ or exp Gels/) use ppez
84	skin cream/
85	(cutaneous drug administration/ or topical drug administration/) use emczd
86	(Administration, Topical/ or Administration, Cutaneous/) use ppez
87	topical drug administration.fs.
88	(cutaneous or dermal or skin or transcutaneous or transdermal or percutaneous).tw.
89	or/81-88
90	4 and 80 and 89
91	limit 90 to english language
92	Letter/ use ppez
93	letter.pt. or letter/ use emczd
94	note.pt.
95	editorial.pt.
96	Editorial/ use ppez
97	News/ use ppez
98	exp Historical Article/ use ppez
99	Anecdotes as Topic/ use ppez
100	Comment/ use ppez
101	Case Report/ use ppez
102	case report/ or case study/ use emczd
103	(letter or comment*).ti.
104	or/92-103
105	randomized controlled trial/ use ppez
106	randomized controlled trial/ use emczd
107	random*.ti,ab.
108	or/105-107
109	104 not 108
110	animals/ not humans/ use ppez
111	animal/ not human/ use emczd
112	nonhuman/ use emczd
113	exp Animals, Laboratory/ use ppez
114	exp Animal Experimentation/ use ppez
115	exp Animal Experiment/ use emczd
116	exp Experimental Animal/ use emczd
117	exp Models, Animal/ use ppez
118	animal model/ use emczd
119	exp Rodentia/ use ppez
120	exp Rodent/ use emczd
121	(rat or rats or mouse or mice).ti.
122	or/109-121
123	91 not 122
124	clinical Trials as topic.sh. or (controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or (placebo or randomi#ed or randomly).ab. or trial.ti.
125	124 use ppez
126	(controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or drug therapy.fs. or (groups or placebo or randomi#ed or randomly or trial).ab.
127	126 use ppez
128	crossover procedure/ or double blind procedure/ or randomized controlled trial/ or single blind procedure/ or (assign* or allocat* or crossover* or cross over* or ((doubl* or singl*) adj blind*) or factorial* or placebo* or random* or volunteer*).ti,ab.

EARLY SUBMISSION

#	Searches
129	128 use emczd
130	125 or 127
131	129 or 130
132	Meta-Analysis/
133	exp Meta-Analysis as Topic/
134	systematic review/
135	meta-analysis/
136	(meta analy* or metanaly* or metaanaly*).ti,ab.
137	((systematic or evidence) adj2 (review* or overview*)).ti,ab.
138	((systematic* or evidence*) adj2 (review* or overview*)).ti,ab.
139	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
140	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
141	(search* adj4 literature).ab.
142	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
143	cochrane.jw.
144	((pool* or combined) adj2 (data or trials or studies or results)).ab.
145	(or/132-134,136,138-143) use ppez
146	(or/134-137,139-144) use emczd
147	or/145-146
148	network meta-analysis/
149	((network adj (MA or MAs) or (NMA or NMAs)).tw.
150	((indirect or mixed or multiple or multi-treatment* or simultaneous) adj1 comparison*).tw.
151	or/148-150
152	131 or 147 or 151
153	123 and 152

1 Date of initial search: 07/08/2019

2 Additional terms added and searched: 10/09/2019

3 Last searched: 07/05/2020

4 Database(s): The Cochrane Library: Cochrane Database of Systematic Reviews, Issue 5 of

5 12, May 2020; Cochrane Central Register of Controlled Trials, Issue 5 of 12, May 2020

ID	Search
#1	MeSH descriptor: [Acne Vulgaris] explode all trees
#2	acne:ti,ab
#3	#1 or #2
#4	(topical or topically or cream or creams or emulsi* gel or gels or foam or foams or ointment* or solution or solutions or lotion or lotions or pad or pads):ti,ab
#5	MeSH descriptor: [Ointments] this term only
#6	MeSH descriptor: [Gels] explode all trees
#7	MeSH descriptor: [Skin Cream] this term only
#8	MeSH descriptor: [Administration, Topical] this term only
#9	MeSH descriptor: [Administration, Cutaneous] this term only
#10	(cutaneous or dermal or skin or transcutaneous or transdermal or percutaneous):ti,ab
#11	{or #4-#10}
#12	MeSH descriptor: [Anti-Bacterial Agents] explode all trees
#13	MeSH descriptor: [Anthelmintics] explode all trees
#14	(antibiotic* or "anti biotic*" or "anti bacteri*" or antibacteri* or bacteriocid*):ti,ab
#15	(anthelminti* or antihelminthi* or antihelminti* or anti-helminthi* or anti-helminti* or antiparasit* or anti-parasit* or vermifug*):ti,ab
#16	MeSH descriptor: [Adapalene] this term only
#17	MeSH descriptor: [Aluminum Oxide] this term only
#18	MeSH descriptor: [Amoxicillin] this term only
#19	MeSH descriptor: [Ampicillin] this term only
#20	MeSH descriptor: [Benzoyl Peroxide] this term only
#21	MeSH descriptor: [Cefaclor] this term only
#22	MeSH descriptor: [Cefadroxil] this term only
#23	MeSH descriptor: [Cephalexin] this term only
#24	MeSH descriptor: [Cefixime] this term only

EARLY SUBMISSION

ID	Search
#25	MeSH descriptor: [Cefotaxime] this term only
#26	MeSH descriptor: [Cephadrine] this term only
#27	MeSH descriptor: [Ceftazidime] this term only
#28	MeSH descriptor: [Ceftriaxone] this term only
#29	MeSH descriptor: [Cefuroxime] this term only
#30	MeSH descriptor: [Clarithromycin] this term only
#31	MeSH descriptor: [Clindamycin] this term only
#32	MeSH descriptor: [Dapsone] this term only
#33	MeSH descriptor: [Doxycycline] this term only
#34	MeSH descriptor: [Erythromycin] this term only
#35	MeSH descriptor: [Floxacillin] this term only
#36	MeSH descriptor: [Fusidic Acid] this term only
#37	MeSH descriptor: [Isotretinoin] this term only
#38	MeSH descriptor: [Ivermectin] this term only
#39	MeSH descriptor: [Lymecycline] this term only
#40	MeSH descriptor: [Minocycline] this term only
#41	MeSH descriptor: [Mupirocin] this term only
#42	MeSH descriptor: [Niacinamide] this term only
#43	MeSH descriptor: [Oxytetracycline] this term only
#44	MeSH descriptor: [Penicillin G] this term only
#45	MeSH descriptor: [Penicillin V] this term only
#46	MeSH descriptor: [Phenol] this term only
#47	MeSH descriptor: [Piperacillin] this term only
#48	MeSH descriptor: [Praziquantel] this term only
#49	MeSH descriptor: [Vitamin A] this term only
#50	MeSH descriptor: [Tetracycline] this term only
#51	MeSH descriptor: [Ticarillin] this term only
#52	MeSH descriptor: [Tretinoin] this term only
#53	MeSH descriptor: [Trimethoprim] this term only
#54	MeSH descriptor: [Zinc Acetate] this term only
#55	(adapalene or aluminum oxide or ampicillin or amoxicillin or avermectin or azaelaic acid or azelaic acid or benzylpenicillin or benzyl penicillin or benzoil peroxide or cefaclor or cefadroxil or cefalexin or cephalosporin* or cephamycin* or cefixime or cefotaxime or cefradine or ceftaroline or ceftazidime or ceftriaxone or cefuroxime or cephalixin or cephradine or chlorhexidine digluconate or chlorhexidine gluconate or clarithromycin or clindamycin or dapsone or diaminodiphenyl sulfone or doxycyclin* or erythromycin or floxacillin or flucloxacillin or fucidin or fusidic acid or fusidate sodium or sodium fusidate or germolene or isotretinoin* or ivermectin or lincosamide* or lymecycline or macrolide* or minocycline or mupirocin or pseudomonic acid or nadifloxacin or niacinamide or nicotinamide or nitroimidazole or ozenoxacin or oxytetracycline or penicillin* or phenol or phenoxymethylpenicillin or piperacillin or pleuromutilin or praziquantel or cysticide or quinoderm or quinolone* or retapamulin or retino* or retinol or temocillin or tetracyclin* or ticarcillin or tretinoin or trimethoprim or vitamin a or zinc acetate):ti,ab
#56	{or #12-#55}
#57	#3 and #11 and #56

Q3.1, 4.1, 5.1 Oral antibiotics and oral isotretinoin

2 Date of initial search: 07/08/2019

3 Last searched: 07/05/2020

4 Database(s): Embase Classic+Embase 1947 to 2020 May 06, Ovid MEDLINE(R) and Epub

5 Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to May 06, 2020

6 Multifile database codes: emczd = Embase Classic+Embase; ppez= MEDLINE(R) and Epub Ahead of

7 Print, In-Process & Other Non-Indexed Citations and Daily

#	Searches
1	exp Acne Vulgaris/ use ppez
2	exp acne/ use emczd
3	acne.tw.
4	or/1-3
5	exp antibiotic agent/ use emczd
6	exp Anti-Bacterial Agents/ use ppez
7	(antibiotic* or anti biotic* or anti bacteri* or antibacteri* or bacteriocid*).tw.
8	exp carbapenem derivative/ use emczd

EARLY SUBMISSION

#	Searches
9	exp Carbapenems/ use ppez
10	exp cephalosporin derivative/ use emczd
11	exp Cephalosporins/ use ppez
12	exp cephamycin derivative/ use emczd
13	exp Cephamycins/ use ppez
14	dapsone/
15	exp lincosamide/ use emczd
16	exp Lincosamide/ use ppez
17	exp macrolide/ use emczd
18	exp Macrolides/ use ppez
19	exp monobactam derivative/ use emczd
20	exp Monobactams/ use ppez
21	exp penicillin derivative/ use emczd
22	exp Penicillins/ use ppez
23	exp quinoline derived antiinfective agent/ use emczd
24	exp Quinolones/ use ppez
25	exp retinoid/ use emczd
26	exp Retinoids/ use ppez
27	exp tetracycline derivative/ use emczd
28	exp Tetracyclines/ use ppez
29	trimethoprim/
30	(carbapenem* or biapenem or doripenem or ertapenem or imipenem or meropenem or panipenem or betamipron or tebipenem).tw.
31	(cephamycin* or cephalosporin* or carbacephem or loracarbef or cefacetile or cefaclor or cefadroxil or cefalexin or cefaloglycin or cefalonium or cefaloridine or cefalotin or cefamandole or cefapirin or cefatrizine or cefazaflur or cefazedone or cefazolin or cefbuperazone or cefcapene or cefdaloxime or cefdinir or cefditoren or cefepime or cefetamet or cefixime or cefmenoxime or cefmetazole or cefminox or cefodizime or cefonicid or cefoperazone or cefoperazone or ceforanide or cefotaxime or cefotetan or cefotiam or cefozopran or cefpiramide or cefpirome or cefpodoxime or cefprozil or cefquinome or cefradine or cefroxadine or cefsulodin or ceftaroline fosamile or ceftazidime or ceftazidime or cefteteram or ceftazole or ceftibiprole or ceftibuten or ceftioleone or ceftolozane or ceftolozane or ceftaroline or ceftriaxone or cefuroxime or cefuzonam or cephamycin or depfimizole or flomoxef or latamoxef or oxacephem).tw.
32	dapsone.tw.
33	(isotretinoi* or iso tretinoin or isotretinoin or isotren or isotrex* or accutane or roaccutan* or roaccuttan* or roaccuttan* or roacutan* or retinoic acid).tw.
34	(lincosamide* or clindamycin or lincomycine or linkomycine).tw.
35	(macrolide* or azithromycin or carbomycin a or clarithromycin or erythromycin or fidaxomicin or josamycin or kitasamycin or midecamycin or oleandomycin or roxithromycin or solithromycin or spiramycin or telithromycin or troleandomycin).tw.
36	(monobactam* or mono- bactam* or aztreonam).tw.
37	(penicillin* or almecillin or amoxicillin or ampicillin or azlocillin or bacampicillin or benzathine benzylpenicillin or benzylpenicillin sodium or carbenicillin or carindacillin or cloxacillin or co-amoxiclav or co-fluampicil or co-trimoxazole or dicloxacillin or epicillin or flucloxacillin or hetacillin or mecillinam or metampicillin or methicillin or mezlocillin or nafcillin or oxacillin or phenoxymethylpenicillin or piperacillin or pivampicillin or pivmecillinam hydrochloride or procaine benzylpenicillin or sultamicillin or talampicillin or temocillin or ticarcillin).tw.
38	(quinolone* or balofloxacin or besifloxacin or ciprofloxacin or clinafloxacin or delafloxacin or enoxacin or fleroxacin or gatifloxacin or gemifloxacin or grepafloxacin or levofloxacin or lomefloxacin or moxifloxacin or nadifloxacin or norfloxacin or ofloxacin or oxolinic acid or ozenoxacin or pazufloxacin or pefloxacin or prulifloxacin or rosoxacin or rufloxacin or sitafloxacin or sparfloxacin or temafloxacin or tosufloxacin).tw.
39	(tetracycline* or chlortetracycline or demeclocycline or doxycycline or eravacycline or lymecycline or methacycline or minocycline or omadacycline or oxytetracycline or rolitetracycline or sarecycline or tetracycline or tigecycline).tw.
40	trimethoprim.tw.
41	or/5-40
42	oral drug administration/ use emczd
43	Administration, Oral/ use ppez
44	oral drug administration.fs.
45	(oral* or per os).tw.
46	or/42-45
47	4 and 41 and 46
48	Letter/ use ppez
49	letter.pt. or letter/ use emczd
50	note.pt.
51	editorial.pt.
52	Editorial/ use ppez
53	News/ use ppez
54	exp Historical Article/ use ppez
55	Anecdotes as Topic/ use ppez

EARLY SUBMISSION

#	Searches
56	Comment/ use ppez
57	Case Report/ use ppez
58	case report/ or case study/ use emczd
59	(letter or comment*).ti.
60	or/48-59
61	randomized controlled trial/ use ppez
62	randomized controlled trial/ use emczd
63	random*.ti,ab.
64	or/61-63
65	60 not 64
66	animals/ not humans/ use ppez
67	animal/ not human/ use emczd
68	nonhuman/ use emczd
69	exp Animals, Laboratory/ use ppez
70	exp Animal Experimentation/ use ppez
71	exp Animal Experiment/ use emczd
72	exp Experimental Animal/ use emczd
73	exp Models, Animal/ use ppez
74	animal model/ use emczd
75	exp Rodentia/ use ppez
76	exp Rodent/ use emczd
77	(rat or rats or mouse or mice).ti.
78	or/65-77
79	47 not 78
80	limit 79 to english language
81	clinical Trials as topic.sh. or (controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or (placebo or randomi#ed or randomly).ab. or trial.ti.
82	81 use ppez
83	(controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or drug therapy.fs. or (groups or placebo or randomi#ed or randomly or trial).ab.
84	83 use ppez
85	crossover procedure/ or double blind procedure/ or randomized controlled trial/ or single blind procedure/ or (assign* or allocat* or crossover* or cross over* or ((doubl* or singl*) adj blind*) or factorial* or placebo* or random* or volunteer*).ti,ab.
86	85 use emczd
87	82 or 84
88	86 or 87
89	Meta-Analysis/
90	exp Meta-Analysis as Topic/
91	systematic review/
92	meta-analysis/
93	(meta analy* or metanaly* or metaanaly*).ti,ab.
94	((systematic or evidence) adj2 (review* or overview*)).ti,ab.
95	((systematic* or evidence*) adj2 (review* or overview*)).ti,ab.
96	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
97	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
98	(search* adj4 literature).ab.
99	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
100	cochrane.jw.
101	((pool* or combined) adj2 (data or trials or studies or results)).ab.
102	(or/89-91,93,95-100) use ppez
103	(or/91-94,96-101) use emczd
104	or/102-103
105	network meta-analysis/
106	((network adj (MA or MAs)) or (NMA or NMAs)).tw.
107	((Indirect or mixed or multiple or multi-treatment* or simultaneous) adj1 comparison*).tw.
108	or/105-107
109	88 or 104 or 108
110	80 and 109

1 Date of initial search: 07/08/2019

2 Last searched: 07/05/2020

EARLY SUBMISSION

- 1 Database(s): The Cochrane Library: Cochrane Database of Systematic Reviews, Issue 5 of
- 2 12, May 2020; Cochrane Central Register of Controlled Trials, Issue 5 of 12, May 2020

ID	Search
#1	MeSH descriptor: [Acne Vulgaris] explode all trees
#2	acne:ti,ab
#3	#1 or #2
#4	MeSH descriptor: [Anti-Bacterial Agents] explode all trees
#5	(antibiotic* or "anti biotic*" or "anti bacteri*" or antibacteri* or bacteriocid*):ti,ab
#6	MeSH descriptor: [Amoxicillin] this term only
#7	MeSH descriptor: [Ampicillin] this term only
#8	MeSH descriptor: [Azithromycin] this term only
#9	MeSH descriptor: [Azlocillin] this term only
#10	MeSH descriptor: [Penicillin G] this term only
#11	MeSH descriptor: [Carbenicillin] this term only
#12	MeSH descriptor: [Cefaclor] this term only
#13	MeSH descriptor: [Cefadroxil] this term only
#14	MeSH descriptor: [Cephalexin] this term only
#15	MeSH descriptor: [Cefixime] this term only
#16	MeSH descriptor: [Cefotaxime] this term only
#17	MeSH descriptor: [Cephradine] this term only
#18	MeSH descriptor: [Ceftazidime] this term only
#19	MeSH descriptor: [Ceftriaxone] this term only
#20	MeSH descriptor: [Chlortetracycline] this term only
#21	MeSH descriptor: [Clarithromycin] this term only
#22	MeSH descriptor: [Clindamycin] this term only
#23	MeSH descriptor: [Cloxacillin] this term only
#24	MeSH descriptor: [Amoxicillin-Potassium Clavulanate Combination] this term only
#25	MeSH descriptor: [Trimethoprim, Sulfamethoxazole Drug Combination] this term only
#26	(amoxicillin or ampicillin or azithromycin or azlocillin or bacampicillin or benzylpenicillin sodium or "penicillin g" or biapenem or carbenicillin or carbomycin or cefaclor or cefadroxil or cefalexin or cephalixin or cefixime or cefotaxime or cephotaxim* or cefradine or cephradine or ceftaroline or ceftazidime or ceftriaxone or cefuroxime or chlortetracycline or clarithromycin or clindamycin or cloxacillin or co amoxiclav or coamoxiclav or co fluampcil or cofluampcil or co trimoxazole or cotrimoxazole):ti,ab
#27	MeSH descriptor: [Demeclocycline] this term only
#28	MeSH descriptor: [Dicloxacillin] this term only
#29	MeSH descriptor: [Doripenem] this term only
#30	MeSH descriptor: [Doxycycline] this term only
#31	MeSH descriptor: [Ertapenem] this term only
#32	MeSH descriptor: [Erythromycin] this term only
#33	MeSH descriptor: [Fidaxomicin] this term only
#34	MeSH descriptor: [Floxacillin] this term only
#35	(demeclocycline or dicloxacillin or doripenem or doxycycline or epicillin or eravacycline or ertapenem or erythromycin or fidaxomicin or floxacillin or flucloxacillin):ti,ab
#36	MeSH descriptor: [Imipenem] this term only
#37	MeSH descriptor: [Cilastatin, Imipenem Drug Combination] this term only
#38	MeSH descriptor: [Josamycin] this term only
#39	MeSH descriptor: [Kitasamycin] this term only
#40	MeSH descriptor: [Lymecycline] this term only
#41	MeSH descriptor: [Meropenem] this term only
#42	MeSH descriptor: [Methacycline] this term only
#43	MeSH descriptor: [Methicillin] this term only
#44	MeSH descriptor: [Mezlocillin] this term only
#45	MeSH descriptor: [Miocamycin] this term only
#46	MeSH descriptor: [Nafcillin] this term only
#47	(hetacillin or imipenem or isotretinoi* or josamycin* or kitasamycin or leucomycin or lymecycline or meropenem or metampicillin or methampicillin or metacycline or methacycline or methicillin or mezlocillin or midecamycin or minocycline or miocamycin* or miokamycin* or nafcillin):ti,ab
#48	MeSH descriptor: [Oleandomycin] this term only
#49	MeSH descriptor: [Oxacillin] this term only
#50	MeSH descriptor: [Oxytetracycline] this term only
#51	MeSH descriptor: [Penicillin V] this term only
#52	MeSH descriptor: [Piperacillin] this term only
#53	MeSH descriptor: [Piperacillin, Tazobactam Drug Combination] this term only
#54	MeSH descriptor: [Amdinocillin Pivoxil] this term only
#55	MeSH descriptor: [Rolitetracycline] this term only
#56	MeSH descriptor: [Roxithromycin] this term only
#57	MeSH descriptor: [Spiramycin] this term only

EARLY SUBMISSION

ID	Search
#58	MeSH descriptor: [Talampicillin] this term only
#59	MeSH descriptor: [Tetracycline] this term only
#60	MeSH descriptor: [Ticarcillin] this term only
#61	MeSH descriptor: [Tigecycline] this term only
#62	MeSH descriptor: [Trimethoprim] this term only
#63	MeSH descriptor: [Troleandomycin] this term only
#64	(oleandomycin or omadacycline or "PTK-0796" or oxacillin* or oxytetracycline or panipenem or betamipron or carbenin or phenoxymethylpenicillin or "penicillin v" or piperacillin or pivmeillinam or amdinocillin pivoxil or retinoid* or rolitetracycline or roxithromycin or sarecycline or solithromycin or spiramycin or talampicillin or tebipenem or telithromycin or temocillin or tetracylin* or ticarcillin or timentin or tigecycline or trimethoprim or troleandomycin):ti,ab
#65	{or #4-#64}
#66	#3 and #65
#67	MeSH descriptor: [Administration, Oral] explode all trees
#68	(oral or per os):ti,ab
#69	#67 or #68
#70	#66 and #69

Q6.1, 6.2, 6.3 Hormonal interventions

2 Date of initial search: 07/08/2019

3 Last searched: 07/05/2020

4 Database(s): Embase Classic+Embase 1947 to 2020 May 06, Ovid MEDLINE(R) and Epub

5 Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to May 06, 2020

6 Multibase database codes: emczd = Embase Classic+Embase; ppez= MEDLINE(R) and Epub Ahead of

7 Print, In-Process & Other Non-Indexed Citations and Daily

#	Searches
1	exp Acne Vulgaris/ use ppez
2	exp acne/ use emczd
3	acne.tw.
4	or/1-3
5	exp aldosterone antagonist/ use emczd
6	exp Mineralocorticoid Receptor Antagonists/ use ppez
7	spironolactone/
8	hydroflumethiazide plus spironolactone/ use emczd
9	canrenone/
10	eplerenone/
11	furosemide plus spironolactone/ use emczd
12	(aldactone or spironolactone or canrenone or co-flumactone or coflumactone or eplerenon* or furosemide).tw.
13	or/5-12
14	exp alpha adrenergic receptor blocking agent/ use emczd
15	exp Adrenergic alpha-Antagonists/ use ppez
16	alfuzosin/ use emczd
17	doxazosin/
18	indoramin/
19	prazosin/
20	tamsulosin/
21	dutasteride plus tamsulosin/ use emczd
22	solifenacin plus tamsulosin/ use emczd
23	terazosin/ use emczd
24	(alfuzosin or doxazosin or uroprost or indoramin or prazosin or tamsulosin or terazosin).tw.
25	or/14-24
26	exp steroid 5alpha reductase inhibitor/ use emczd
27	exp 5-alpha Reductase Inhibitors/ use ppez
28	dutasteride/
29	finasteride/
30	(5a reductase inhibitor* or 5-alpha reductase inhibitor* or dutasteride or finasteride).tw.
31	or/26-30
32	exp antiandrogen/ use emczd
33	exp Androgen Antagonists/ use ppez
34	metformin/

EARLY SUBMISSION

#	Searches
35	abiraterone acetate/
36	apalutamide/ use emczd
37	bicalutamide/ use emczd
38	cyproterone acetate plus ethinylestradiol/ use emczd
39	cyproterone acetate/
40	enzalutamide/ use emczd
41	flutamide/
42	(antiandrogen* or anti-androgen* or androgen antagonist* or abiraterone acetate or apalutamide or bicalutamide or cocyprindiol or co-cyprindiol or cyproterone acetate or enzalutamide or flutamide or metformin).tw.
43	or/32-42
44	exp oral contraceptive agent/ use emczd
45	exp Contraceptives, Oral, Combined/ use ppez
46	exp gestagen/ use emczd
47	exp Progestins/ use ppez
48	(chlormadinone acetate plus ethinylestradiol/ or desogestrel plus ethinylestradiol/ or dienogest plus ethinylestradiol/ or drospirenone plus ethinylestradiol/ or dydrogesterone plus estradiol/ or estradiol plus levonorgestrel/ or estradiol plus nomegestrol acetate/ or estradiol plus norethisterone acetate/ or ethinylestradiol plus etonogestrel/ or ethinylestradiol plus gestodene/ or ethinylestradiol plus levonorgestrel/ or ethinylestradiol plus norelgestromin/ or ethinylestradiol plus norethisterone/ or ethinylestradiol plus norgestimate/) use emczd
49	Ethinyl Estradiol-Norgestrel Combination/ use ppez
50	(Ethinyl Estradiol/ use ppez and (Chlormadinone Acetate/ or Desogestrel/ or Levonorgestrel/ or Norethindrone/ or Norgestrel/)) use ppez
51	(Mestranol/ and (Norethindrone/ or Norethynodrel/)) use ppez
52	(Estradiol/ and (Dydrogesterone/ or Levonorgestrel/ or Medroxyprogesterone Acetate/ or Norethindrone/)) use ppez
53	((oral* adj contracept*) or progest?gen* or gestagen* or progestin*).tw.
54	((ethinyl?estradiol or ethinyl estradiol or ethinyl oestradiol) adj3 (chlormadinone acetate or desogestrel or dienogest or drospirenone or etonogestrel or gestodene or levonorgestrel or nomogestrol or norelgestromin* or norethindrone or norethisterone or norgestimate or norgestrel)).tw.
55	(mestranol adj3 (norethindrone or norethisterone or noretynodrel or norethynodrel)).tw.
56	((estradiol or oestradiol) adj3 (dienogest or dydrogesterone or levonorgestrel or medroxyprogesterone acetate or nomegestrol or norethindrone or norethisterone)).tw.
57	or/44-56
58	or/13,25,31,43,57
59	4 and 58
60	limit 59 to english language
61	Letter/ use ppez
62	letter.pt. or letter/ use emczd
63	note.pt.
64	editorial.pt.
65	Editorial/ use ppez
66	News/ use ppez
67	exp Historical Article/ use ppez
68	Anecdotes as Topic/ use ppez
69	Comment/ use ppez
70	Case Report/ use ppez
71	case report/ or case study/ use emczd
72	(letter or comment*).ti.
73	or/61-72
74	randomized controlled trial/ use ppez
75	randomized controlled trial/ use emczd
76	random*.ti,ab.
77	or/74-76
78	73 not 77
79	animals/ not humans/ use ppez
80	animal/ not human/ use emczd
81	nonhuman/ use emczd
82	exp Animals, Laboratory/ use ppez
83	exp Animal Experimentation/ use ppez
84	exp Animal Experiment/ use emczd
85	exp Experimental Animal/ use emczd
86	exp Models, Animal/ use ppez
87	animal model/ use emczd
88	exp Rodentia/ use ppez
89	exp Rodent/ use emczd
90	(rat or rats or mouse or mice).ti.
91	or/78-90

EARLY SUBMISSION

#	Searches
92	60 not 91
93	clinical Trials as topic.sh. or (controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or (placebo or randomi#ed or randomly).ab. or trial.ti.
94	93 use ppez
95	(controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or drug therapy.fs. or (groups or placebo or randomi#ed or randomly or trial).ab.
96	95 use ppez
97	crossover procedure/ or double blind procedure/ or randomized controlled trial/ or single blind procedure/ or (assign* or allocat* or crossover* or cross over* or ((doubl* or singl*) adj blind*) or factorial* or placebo* or random* or volunteer*).ti,ab.
98	97 use emezd
99	94 or 96
100	98 or 99
101	Meta-Analysis/
102	exp Meta-Analysis as Topic/
103	systematic review/
104	meta-analysis/
105	(meta analy* or metanaly* or metaanaly*).ti,ab.
106	((systematic or evidence) adj2 (review* or overview*)).ti,ab.
107	((systematic* or evidence*) adj2 (review* or overview*)).ti,ab.
108	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
109	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
110	(search* adj4 literature).ab.
111	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
112	cochrane.jw.
113	((pool* or combined) adj2 (data or trials or studies or results)).ab.
114	(or/101-103,105,107-112) use ppez
115	(or/103-106,108-113) use emezd
116	or/114-115
117	network meta-analysis/
118	((network adj (MA or MAs) or (NMA or NMAs)).tw.
119	((indirect or mixed or multiple or multi-treatment* or simultaneous) adj1 comparison*).tw.
120	or/117-119
121	100 or 116 or 120
122	92 and 121

1 Date of initial search: 07/08/2019

2 Last searched: 07/05/2020

3 Database(s): The Cochrane Library: Cochrane Database of Systematic Reviews, Issue 5 of
4 12, May 2020; Cochrane Central Register of Controlled Trials, Issue 5 of 12, May 2020

ID	Search
#1	MeSH descriptor: [Acne Vulgaris] explode all trees
#2	acne*.ti,ab
#3	#1 or #2
#4	MeSH descriptor: [Mineralocorticoid Receptor Antagonists] explode all trees
#5	MeSH descriptor: [Spironolactone] this term only
#6	MeSH descriptor: [Eplerenone] this term only
#7	(aldactone or spironolactone or co-flumactone or coflumactone or eplerenon* or furosemide):ti,ab
#8	{or #4-#7}
#9	MeSH descriptor: [Adrenergic alpha-Antagonists] explode all trees
#10	MeSH descriptor: [Doxazosin] this term only
#11	MeSH descriptor: [Indoramin] this term only
#12	MeSH descriptor: [Prazosin] this term only
#13	MeSH descriptor: [Tamsulosin] this term only
#14	(alfuzosin or doxazosin or uroprost or indoramin or prazosin or tamsulosin or terazosin):ti,ab
#15	{or #9-#14}
#16	MeSH descriptor: [5-alpha Reductase Inhibitors] explode all trees
#17	MeSH descriptor: [Dutasteride] this term only
#18	MeSH descriptor: [Finasteride] this term only
#19	("5a reductase inhibitor*" or "5-alpha reductase inhibitor*" or dutasteride or finasteride):ti,ab
#20	{or #16-#19}
#21	MeSH descriptor: [Androgen Antagonists] explode all trees

EARLY SUBMISSION

ID	Search
#22	MeSH descriptor: [Metformin] this term only
#23	MeSH descriptor: [Abiraterone Acetate] this term only
#24	MeSH descriptor: [Cyproterone Acetate] this term only
#25	MeSH descriptor: [Flutamide] this term only
#26	(antiandrogen* or "anti androgen**" or "androgen antagonist**" or "abiraterone acetate" or apalutamide or bicalutamide or cocyprindiol or "co cyprindiol" or "cyproterone acetate" or enzalutamide or flutamide or metformin):ti,ab
#27	{or #21-#26}
#28	MeSH descriptor: [Contraceptives, Oral, Combined] explode all trees
#29	MeSH descriptor: [Progestins] explode all trees
#30	MeSH descriptor: [Ethinyl Estradiol-Norgestrel Combination] this term only
#31	MeSH descriptor: [Ethinyl Estradiol] this term only
#32	MeSH descriptor: [Estradiol] this term only
#33	MeSH descriptor: [Mestranol] this term only
#34	((oral* next contracept*) or progestogen* or progestagen* or gestagen* or progestin*):ti,ab
#35	((ethinylestradiol or ethinylestradiol or ethinyl estradiol or ethinyl oestradiol) near/3 (chlormadinone acetate or desogestrel or dienogest or drospirenone or etonogestrel or gestodene or levonorgestrel or nomogestrol or norelgestromin* or norethindrone or norethisterone or norgestimate or norgestrel)):ti,ab
#36	((estradiol or oestradiol) near/3 (dienogest or dydrogesterone or levonorgestrel or medroxyprogesterone acetate or nomegestrol or norethindrone or norethisterone)):ti,ab
#37	(mestranol near/3 (norethindrone or norethisterone or noretynodrel or norethynodrel)):ti,ab
#38	{or #28-#37}
#39	#8 or #15 or #20 or #27 or #38
#40	#3 and #39

1

Q9.1 Physical interventions

3 Date of initial search: 07/08/2019

4 Last searched: 07/05/2020

5 Database(s): Embase Classic+Embase 1947 to 2020 May 06, Ovid MEDLINE(R) and Epub
6 Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to May 06, 2020

7 Multifile database codes: emczd = Embase Classic+Embase; ppez= MEDLINE(R) and Epub Ahead of
8 Print, In-Process & Other Non-Indexed Citations and Daily

#	Searches
1	exp Acne Vulgaris/ use ppez
2	exp acne/ use emczd
3	acne.tw.
4	or/1-3
5	chemexfoliation/
6	(amino acid/ or 2 hydroxyacid/) use emczd
7	(Amino Acids/ or Hydroxy Acids/) use ppez
8	glycolic acid/ use emczd
9	Glycolates/ use ppez
10	lactic acid/
11	mandelic acid/ use emczd
12	Mandelic Acids/ use ppez
13	pyruvic acid/
14	salicylic acid/
15	trichloroacetic acid/
16	(chemical adj1 (exfoliat* or peel* or resurfac*)),tw.
17	(chemoexfoliat* or chemexfoliat* or chemo exfoliat*)),tw.
18	((amino or glycol* or lactic or mandelic or pyruvic or salicylic or trichloroacetic or salicylic-mandelic or alpha hydroxy or "amino fruit") adj acid*)),tw.
19	(hydroxyacid* or hydroxy acid*)),tw.
20	((Jessner* or phenol or pheno or Baker-Gordon) adj (peel* or solution*)),tw.
21	or/5-20
22	comedo/th use emczd
23	((blackhead* or comedo* or whitehead*) adj (extract* or remov*)),tw.

EARLY SUBMISSION

#	Searches
24	triamcinolone acetone/
25	(adrenal cortex hormone* or triamcinolone acetone).tw.
26	or/22-25
27	exp laser/
28	exp phototherapy/
29	exp photodynamic therapy/
30	exp photochemotherapy/
31	exp photolysis/
32	exp sunlight/
33	exp photosensitizing agent/
34	radiofrequency/ or radiofrequency ablation/
35	aminolevulinic acid/
36	methylene blue/
37	aminolevulinic acid methyl ester/
38	(or/27-37) use emczd
39	exp Lasers/
40	exp Phototherapy/
41	exp Laser Therapy/
42	exp Photochemotherapy/
43	exp Photolysis/
44	exp Sunlight/
45	exp Ultraviolet Therapy/
46	exp Photosensitizing Agents/
47	exp Radiofrequency Therapy/
48	Aminolevulinic Acid/
49	Methylene Blue/
50	(or/39-49) use ppez
51	(laser* or light therap* or light treatment* or aminolevulinic acid or blue light* or red light* or intense pulsed light* or IPL or methyl aminolevulinate or methylene blue gel or microneed* or micro need* or photochemical therap* or photochemical treatment* or photo chemical therap* or photo chemical treatment* or photochemotherap* or photodynamic therap* photodynamic treatment* or photo dynamic therap* or photo dynamic treatment* or photolysis or photopneumatic therap* or photopneumatic treatment* or photo pneumatic therap* or photo pneumatic treatment* or photosensiti?ing agent* or photo-sensiti?ing agent* or phototherap* or photo-therap* or photothermal therap* or photothermal treatment* or photo-thermal therap* or photo-thermal treatment* or radiofrequenc* or radio frequenc* or smoothbeam or sunlight or ultraviolet).tw.
52	or/21,26,38,50-51
53	4 and 52
54	Letter/ use ppez
55	letter.pt. or letter/ use emczd
56	note.pt.
57	editorial.pt.
58	Editorial/ use ppez
59	News/ use ppez
60	exp Historical Article/ use ppez
61	Anecdotes as Topic/ use ppez
62	Comment/ use ppez
63	Case Report/ use ppez
64	case report/ or case study/ use emczd
65	(letter or comment*).ti.
66	or/54-65
67	randomized controlled trial/ use ppez
68	randomized controlled trial/ use emczd
69	random*.ti,ab.
70	or/67-69
71	66 not 70
72	animals/ not humans/ use ppez
73	animal/ not human/ use emczd
74	nonhuman/ use emczd
75	exp Animals, Laboratory/ use ppez
76	exp Animal Experimentation/ use ppez
77	exp Animal Experiment/ use emczd
78	exp Experimental Animal/ use emczd
79	exp Models, Animal/ use ppez
80	animal model/ use emczd
81	exp Rodentia/ use ppez
82	exp Rodent/ use emczd

EARLY SUBMISSION

#	Searches
83	(rat or rats or mouse or mice).ti.
84	or/71-83
85	53 not 84
86	limit 85 to english language
87	clinical Trials as topic.sh. or (controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or (placebo or randomi#ed or randomly).ab. or trial.ti.
88	87 use ppez
89	(controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or drug therapy.fs. or (groups or placebo or randomi#ed or randomly or trial).ab.
90	89 use ppez
91	crossover procedure/ or double blind procedure/ or randomized controlled trial/ or single blind procedure/ or (assign* or allocat* or crossover* or cross over* or ((doubl* or singl*) adj blind*) or factorial* or placebo* or random* or volunteer*).ti,ab.
92	91 use emczd
93	88 or 90
94	92 or 93
95	Meta-Analysis/
96	exp Meta-Analysis as Topic/
97	systematic review/
98	meta-analysis/
99	(meta analy* or metanaly* or metaanaly*).ti,ab.
100	((systematic or evidence) adj2 (review* or overview*)).ti,ab.
101	((systematic* or evidence*) adj2 (review* or overview*)).ti,ab.
102	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
103	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
104	(search* adj4 literature).ab.
105	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
106	cochrane.jw.
107	((pool* or combined) adj2 (data or trials or studies or results)).ab.
108	(or/95-97,99,101-106) use ppez
109	(or/97-100,102-107) use emczd
110	or/108-109
111	network meta-analysis/
112	((network adj (MA or MAs)) or (NMA or NMAs)).tw.
113	((indirect or mixed or multiple or multi-treatment* or simultaneous) adj1 comparison*).tw.
114	or/111-113
115	94 or 110 or 114
116	86 and 115

1 Date of initial search: 07/08/2019

2 Last searched: 07/05/2020

3 Database(s): The Cochrane Library: Cochrane Database of Systematic Reviews, Issue 5 of

4 12, May 2020; Cochrane Central Register of Controlled Trials, Issue 5 of 12, May 2020

ID	Search
#1	MeSH descriptor: [Acne Vulgaris] explode all trees
#2	acne*:ti,ab
#3	#1 or #2
#4	MeSH descriptor: [Chemexfoliation] this term only
#5	MeSH descriptor: [Amino Acids] this term only
#6	MeSH descriptor: [Hydroxy Acids] this term only
#7	MeSH descriptor: [Glycolates] this term only
#8	MeSH descriptor: [Lactic Acid] this term only
#9	MeSH descriptor: [Mandelic Acids] this term only
#10	MeSH descriptor: [Pyruvic Acid] this term only
#11	MeSH descriptor: [Salicylic Acid] this term only
#12	MeSH descriptor: [Trichloroacetic Acid] this term only
#13	(chemical near/1 (exfoliat* or peel* or resurfac*)):ti,ab
#14	(chemoexfoliat* or chemexfoliat* or chemo exfoliat*):ti,ab
#15	((amino or glycol* or lactic or mandelic or pyruvic or salicylic or trichloroacetic or trichloroacetic or "salicylic mandelic" or "alpha hydrox" or "amino fruit") next acid*):ti,ab
#16	(hydroxyacid* or "hydroxy acid*"):ti,ab
#17	((Jessner* or phenol or pheno or "Baker Gordon") next (peel* or solution*)):ti,ab

EARLY SUBMISSION

ID	Search
#18	{or #4-#17}
#19	((blackhead* or comedo* or whitehead*) near/2 (extract* or remov*)):ti,ab
#20	MeSH descriptor: [Triamcinolone Acetonide] this term only
#21	("adrenal cortex hormone*" or "triamcinolone acetonide").ti,ab
#22	{or #19-#21}
#23	MeSH descriptor: [Lasers] explode all trees
#24	MeSH descriptor: [Phototherapy] explode all trees
#25	MeSH descriptor: [Photochemotherapy] explode all trees
#26	MeSH descriptor: [Photochemotherapy] explode all trees
#27	MeSH descriptor: [Photolysis] explode all trees
#28	MeSH descriptor: [Sunlight] explode all trees
#29	MeSH descriptor: [Photosensitizing Agents] explode all trees
#30	MeSH descriptor: [Radiofrequency Therapy] explode all trees
#31	MeSH descriptor: [Aminolevulinic Acid] this term only
#32	MeSH descriptor: [Methylene Blue] this term only
#33	MeSH descriptor: [Ultraviolet Therapy] explode all trees
#34	(laser* or light therap* or light treatment* or aminolevulinic acid or blue light* or red light* or intense pulsed light* or IPL or methyl aminolevulinate or methylene blue gel or microneedl* or micro needl* or photochemical therap* or photochemical treatment* or photo chemical therap* or photo chemical treatment* or photochemotherap* or photodynamic therap* photodynamic treatment* or photo dynamic therap* or photo dynamic treatment* or photolysis or photopneumatic therap* or photopneumatic treatment* or photo pneumatic therap* or photo pneumatic treatment* or photosensitising agent* or photosensitizing agent* or photo-sensitising agent* or photosensitizing agent* or phototherap* or photo-therap* or photothermal therap* or photothermal treatment* or photo-thermal therap* or photo-thermal treatment* or radio frequenc* or radio frequenc* or smoothbeam or sunlight or ultraviolet):ti,ab
#35	{or #23-#34}
#36	#18 or #22 or #35
#37	#3 and #18

1

8. Isotretinoin

Literature search strategies for questions 7.1 and 8.1

4 Systematic reviews and RCTs

5 Date of initial search: 13/03/2019

6 Database(s): Embase 1980 to 2019 Week 10, Ovid MEDLINE(R) and Epub Ahead of Print,
7 In-Process & Other Non-Indexed Citations and Daily 1946 to March 11, 2019

8 Multifile database codes: emez = Embase; ppez= MEDLINE(R) and Epub Ahead of Print, In-Process
9 & Other Non-Indexed Citations and Daily

#	Searches
1	exp Acne Vulgaris/ use ppez
2	exp acne/ use emez
3	acne.tw.
4	or/1-3
5	exp Isotretinoin/
6	(isotretinoin* or iso tretinoin or isotren or isotrex* or accutane or roaccut?an* or roacutan or roacnetan or isotane or decutan or clarus or amnesteem or sotret or izotek or oratane or isotret or isoface or lurantal or isoacne or 13-cis-retinoic-acid or ro 4 3780 or 13 cis retinoic acid or ro 4-3780 or 4759-48-2 or accure or aknenormin or ciscutan or isotexal or isosupra or isotroin or atretin or nimegen or acnotin or ruatine or sotret or acnal or acnetrex or akinol or curacne or curatane or newtinon or piple or procuta or retinoin or 13 cis tretinoin).tw.
7	5 or 6
8	4 and 7
9	limit 8 to english language
10	Letter/ use ppez
11	letter.pt. or letter/ use emez
12	note.pt.
13	editorial.pt.
14	Editorial/ use ppez

EARLY SUBMISSION

#	Searches
15	News/ use ppez
16	exp Historical Article/ use ppez
17	Anecdotes as Topic/ use ppez
18	Comment/ use ppez
19	Case Report/ use ppez
20	case report/ or case study/ use emez
21	(letter or comment*).ti.
22	or/10-21
23	randomized controlled trial/ use ppez
24	randomized controlled trial/ use emez
25	random*.ti,ab.
26	or/23-25
27	22 not 26
28	animals/ not humans/ use ppez
29	animal/ not human/ use emez
30	nonhuman/ use emez
31	exp Animals, Laboratory/ use ppez
32	exp Animal Experimentation/ use ppez
33	exp Animal Experiment/ use emez
34	exp Experimental Animal/ use emez
35	exp Models, Animal/ use ppez
36	animal model/ use emez
37	exp Rodentia/ use ppez
38	exp Rodent/ use emez
39	(rat or rats or mouse or mice).ti.
40	or/27-39
41	9 not 40
42	Meta-Analysis/
43	Meta-Analysis as Topic/
44	systematic review/
45	meta-analysis/
46	(meta analy* or metanaly* or metaanaly*).ti,ab.
47	((systematic or evidence) adj2 (review* or overview*)).ti,ab.
48	((systematic* or evidence*) adj2 (review* or overview*)).ti,ab.
49	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
50	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
51	(search* adj4 literature).ab.
52	(medline or pubmed or cochrane or embase or psychlit or psychlit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
53	cochrane.jw.
54	((pool* or combined) adj2 (data or trials or studies or results)).ab.
55	(or/42-44,46,48-53) use ppez
56	(or/44-47,49-54) use emez
57	or/55-56
58	clinical Trials as topic.sh. or (controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or (placebo or randomi#ed or randomly).ab. or trial.ti.
59	58 use ppez
60	(controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or drug therapy.fs. or (groups or placebo or randomi#ed or randomly or trial).ab.
61	60 use ppez
62	crossover procedure/ or double blind procedure/ or randomized controlled trial/ or single blind procedure/ or (assign* or allocat* or crossover* or cross over* or ((doubl* or singl*) adj blind*) or factorial* or placebo* or random* or volunteer*).ti,ab.
63	62 use emez
64	59 or 61
65	63 or 64
66	57 or 65
67	41 and 66
68	limit 67 to yr="2018 -Current"
69	remove duplicates from 68

1 Adverse effects and cohort studies

2 Date of initial search: 13/03/2019

EARLY SUBMISSION

- 1 Database(s): Embase 1980 to 2019 Week 10, Ovid MEDLINE(R) and Epub Ahead of Print,
- 2 In-Process & Other Non-Indexed Citations and Daily 1946 to March 12, 2019
- 3 Multifile database codes: emez = Embase; ppez= MEDLINE(R) and Epub Ahead of Print, In-Process
- 4 & Other Non-Indexed Citations and Daily

#	Searches
1	exp Acne Vulgaris/ use ppez
2	exp acne/ use emez
3	acne.tw.
4	or/1-3
5	exp Isotretinoin/
6	(isotretinoi* or iso tretinoin or isotren or isotrex* or accutane or roacut?an* or roacutan or roacnetan or isotane or decutan or clarus or amnesteem or sotret or izotek or oratane or isotret or isoface or lurantal or isoacne or 13-cis-retinoic-acid or ro 4 3780 or 13 cis retinoic acid or ro 4-3780 or 4759-48-2 or accure or aknenormin or ciscutan or isotexal or isosupra or isotroin or atretin or nimegen or acnotin or ruatine or sotret or acnal or acnetrex or akinol or curacne or curatane or newtinon or pinple or procuta or retinoin or 13 cis tretinoin).tw.
7	5 or 6
8	4 and 7
9	limit 8 to english language
10	Letter/ use ppez
11	letter.pt. or letter/ use emez
12	note.pt.
13	editorial.pt.
14	Editorial/ use ppez
15	News/ use ppez
16	exp Historical Article/ use ppez
17	Anecdotes as Topic/ use ppez
18	Comment/ use ppez
19	Case Report/ use ppez
20	case report/ or case study/ use emez
21	(letter or comment*).ti.
22	or/10-21
23	randomized controlled trial/ use ppez
24	randomized controlled trial/ use emez
25	random*.ti,ab.
26	or/23-25
27	22 not 26
28	animals/ not humans/ use ppez
29	animal/ not human/ use emez
30	nonhuman/ use emez
31	exp Animals, Laboratory/ use ppez
32	exp Animal Experimentation/ use ppez
33	exp Animal Experiment/ use emez
34	exp Experimental Animal/ use emez
35	exp Models, Animal/ use ppez
36	animal model/ use emez
37	exp Rodentia/ use ppez
38	exp Rodent/ use emez
39	(rat or rats or mouse or mice).ti.
40	or/27-39
41	9 not 40
42	exp "Drug-Related Side Effects and Adverse Reactions"/
43	exp Drug Overdose/ or exp Drug Misuse/ or exp Substance-Related Disorders/
44	exp Medication Errors/ or exp Death/
45	exp Carcinogens/ or exp Mutagens/ or exp Teratogens/
46	exp Contraindications, Drug/ or exp Drug Interactions/ or exp Drug Resistance/ or exp Drug Tolerance/ or exp Poisoning/ or exp Treatment Failure/
47	exp Hypersensitivity/
48	Drug Monitoring/
49	exp Product Surveillance, Postmarketing/
50	exp Hepatitis, Chronic/ or "Chemical and Drug Induced Liver Injury, Chronic"/
51	Dermatitis, Contact/ or exp Dermatitis, Allergic Contact/ or Dermatitis, Irritant/ or Dermatitis, Phototoxic/
52	Burning Mouth Syndrome/
53	Sleep Apnea, Obstructive/
54	exp Arrhythmias, Cardiac/
55	Heart Block/

EARLY SUBMISSION

#	Searches
56	Hypercalcemia/
57	Urinary Calculi/
58	Tachyphylaxis/
59	Substance Withdrawal Syndrome/
60	Atrophy/
61	Telangiectasis/
62	Liver Diseases/ or Kidney Diseases/
63	Disseminated Intravascular Coagulation/
64	Multiple Organ Failure/
65	Stevens-Johnson Syndrome/
66	Epidermal Necrolysis, Toxic/
67	Coma/ or Paralysis/
68	Nausea/ or Vomiting/
69	exp Inflammatory Bowel Diseases/
70	Pseudotumor Cerebri/
71	exp Pigmentation Disorders/ or exp Pigmentation/
72	exp Suicide/
73	Anxiety/ or Depression/ or Mood Disorders/
74	(or/42-73) use ppez
75	exp adverse event/
76	drug overdose/ or exp drug misuse/ or drug dependence/
77	medication error/ or death/
78	exp carcinogen/ or exp mutagenic agent/ or exp teratogenic agent/
79	drug contraindication/ or drug interaction/ or drug resistance/ or drug tolerance/ or drug intoxication/ or treatment failure/
80	exp hypersensitivity/
81	exp drug monitoring/
82	exp postmarketing surveillance/
83	exp chronic hepatitis/ or toxic hepatitis/
84	irritant dermatitis/
85	burning mouth syndrome/
86	sleep disordered breathing/
87	exp heart arrhythmia/
88	heart block/
89	hypercalcemia/
90	uroolithiasis/
91	tachyphylaxis/
92	withdrawal syndrome/
93	atrophy/
94	telangiectasia/
95	liver disease/ or kidney disease/
96	disseminated intravascular clotting/
97	multiple organ failure/
98	Stevens Johnson syndrome/
99	toxic epidermal necrolysis/
100	coma/ or paralysis/
101	nausea/ or vomiting/
102	exp inflammatory bowel disease/
103	brain pseudotumor/
104	exp pigment disorder/ or skin pigmentation/
105	suicide/
106	anxiety/ or exp depression/ or mood disorder/
107	(or/75-106) use emez
108	((adverse or undesirable or harm* or serious) adj3 (effect* or reaction* or event* or outcome*)).tw.
109	side effect*.tw.
110	((drug or therapy or therapeutic or treatment) adj2 (effect* or efficacy)).tw.
111	withdrawal.tw.
112	(contraindicat* or contra-indicat*).tw.
113	(overdos* or misus* or abus*).tw.
114	(safe or safety).tw.
115	complication*.tw.
116	(treatment emergent or treatment fail*).tw.
117	metabolite*.tw.
118	(carcinogen* or mutagen* or teratogen*).tw.
119	(photoallergic reaction* or phototoxic*).tw.

EARLY SUBMISSION

#	Searches
120	(toxic* or pharmacotox* or neurotox* or cardiotox* or hepatotox* or immunotox* or immunocytotox* or nephrotox* or noxious).tw.
121	sensiti?ati*.tw.
122	(tolera* or rebound).tw.
123	(sting* or burn*).tw.
124	f?etal abnormal*.tw.
125	skin thinning.tw.
126	pigmentation.tw.
127	benign intracranial hypertension.tw.
128	(hepatitis or liver disease*).tw.
129	(nephritis or kidney disease*).tw.
130	(death or disab* or fatal* or suicid* or life threatening or hospitali?ation).tw.
131	(crohns or colitis).tw.
132	(anxiety or anxious or depress* or mood* or psychiatr* or psychotic).tw.
133	or/108-132
134	74 or 107 or 133
135	41 and 134
136	exp Cohort Studies/ use ppez
137	cohort analysis/
138	exp longitudinal study/
139	prospective study/
140	follow up/
141	exp case control study/
142	(or/137-141) use emez
143	exp Case-Control Studies/ use ppez
144	136 or 143
145	cohort*.tw.
146	(case and control*).tw.
147	(longitudinal or prospective or retrospective).tw.
148	or/145-147
149	142 or 144 or 148
150	135 and 149
151	remove duplicates from 150
152	limit 151 to yr="2013 -Current"

1

2 Date of initial search: 12/03/2019

3 Database(s): The Cochrane Library: Cochrane Database of Systematic Reviews, Issue 3 of

4 12, March 2019; Cochrane Central Register of Controlled Trials, Issue 3 of 12, March 2019

ID	Search
#1	MeSH descriptor: [Acne Vulgaris] explode all trees
#2	acne:ti,ab
#3	#1 or #2
#4	MeSH descriptor: [Isotretinoin] this term only
#5	(isotretinoi* or iso tretinoin or isotren or isotrex* or accutane or roaccutan or roaccuttan or roacuttan or roacutan or roacnetan or isotane or decutan or clarus or amnesteem or sotret or izotek or oratane or isotret or isoface or lurantal or isoacne or "13-cis-retinoic-acid" or "ro 4 3780" or "13 cis retinoic acid" or "ro 4-3780" or "4759-48-2" or accure or aknenormin or ciscutan or isotexal or isosupra or isotroin or atretin or nimegen or acnotin or ruatine or sotret or acnal or acnetrex or akinol or curacne or curatane or newtinon or pinple or procuta or retinoin or "13 cis tretinoin"):ti,ab
#6	#4 or #5
#7	#3 and #6 with Cochrane Library publication date Between Mar 2018 and Mar 2019

5

D. Intralesional steroids

Literature search strategies for question 9.2

8 Date of initial search: 06/08/2019

EARLY SUBMISSION

- 1 Database(s): Embase Classic+Embase 1947 to 2019 August 05, Ovid MEDLINE(R) and
- 2 Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to August
- 3 05, 2019
- 4 Multifile database codes: emczd = Embase Classic+Embase; ppez= MEDLINE(R) and Epub Ahead of
- 5 Print, In-Process & Other Non-Indexed Citations and Daily

#	Searches
1	exp Acne Vulgaris/ use ppez
2	exp acne/ use emczd
3	acne.tw.
4	or/1-3
5	intralesional drug administration/
6	intralesional drug administration/
7	soft tissue drug administration/
8	subcutaneous drug administration/
9	exp injection/
10	(or/5-9) use emczd
11	Injections, Intralesional/
12	exp Injections, Subcutaneous/
13	(or/11-12) use ppez
14	(intralesional drug administration or intralesional drug administration or subcutaneous drug administration).fs.
15	(inject* or intraderm* or intra derm* or intralesion* or intra lesion* or soft tissue* or subcutaneous or subderm*).tw.
16	or/10,13-15
17	4 and 16
18	steroid/ use emczd
19	exp corticosteroid/ use emczd
20	Steroids/ use ppez
21	exp Glucocorticoids/ use ppez
22	betamethasone/
23	dexamethasone/
24	hydrocortisone/
25	methylprednisolone/
26	prednisolone/
27	triamcinolone acetone/
28	triamcinolone diacetate/ use emczd
29	(corticosteroid* or glucocorticoid* or steroid* or betamethasone or dexamethasone or hydrocortisone or methylfluorprednisolone or methyl fluorprednisolone or methylprednisolone or methyl prednisolone or prednisolone or triamcinolon*).tw.
30	or/18-29
31	17 and 30
32	Letter/ use ppez
33	letter.pt. or letter/ use emczd
34	note.pt.
35	editorial.pt.
36	Editorial/ use ppez
37	News/ use ppez
38	exp Historical Article/ use ppez
39	Anecdotes as Topic/ use ppez
40	Comment/ use ppez
41	Case Report/ use ppez
42	case report/ or case study/ use emczd
43	(letter or comment*).ti.
44	or/32-43
45	randomized controlled trial/ use ppez
46	randomized controlled trial/ use emczd
47	random*.ti,ab.
48	or/45-47
49	44 not 48
50	animals/ not humans/ use ppez
51	animal/ not human/ use emczd
52	nonhuman/ use emczd
53	exp Animals, Laboratory/ use ppez
54	exp Animal Experimentation/ use ppez
55	exp Animal Experiment/ use emczd
56	exp Experimental Animal/ use emczd
57	exp Models, Animal/ use ppez

EARLY SUBMISSION

#	Searches
58	animal model/ use emczd
59	exp Rodentia/ use ppez
60	exp Rodent/ use emczd
61	(rat or rats or mouse or mice).ti.
62	or/49-61
63	31 not 62
64	limit 63 to english language

1

2 Date of initial search: 06/08/2019

3 Database(s): The Cochrane Library: Cochrane Database of Systematic Reviews, Issue 8 of
4 12, August 2019; Cochrane Central Register of Controlled Trials, Issue 8 of 12, August 2019

ID	Search
#1	MeSH descriptor: [Acne Vulgaris] explode all trees
#2	acne:ti,ab
#3	#1 or #2
#4	MeSH descriptor: [Injections, Intralesional] this term only
#5	MeSH descriptor: [Injections, Subcutaneous] explode all trees
#6	(inject* or intraderm* or intra derm* or intralesion* or intra lesion* or soft tissue* or subcutaneous or subderm*):ti,ab
#7	{or #4-#6}
#8	#3 and #7
#9	MeSH descriptor: [Steroids] this term only
#10	MeSH descriptor: [Glucocorticoids] explode all trees
#11	MeSH descriptor: [Betamethasone] explode all trees
#12	MeSH descriptor: [Dexamethasone] explode all trees
#13	MeSH descriptor: [Hydrocortisone] explode all trees
#14	MeSH descriptor: [Methylprednisolone] explode all trees
#15	MeSH descriptor: [Prednisolone] explode all trees
#16	MeSH descriptor: [Triamcinolone] explode all trees
#17	(corticosteroid* or glucocorticoid* or steroid* or betamethasone or dexamethasone or dexamethazone or hydrocortisone or methylfluorprednisolone or methyl fluorprednisolone or methylprednisolone or methyl prednisolone or prednisolone or triamcinolon*):ti,ab
#18	{or #9-#17}
#19	#8 and #18

5

E. Dietary interventions

Literature search strategies for question 10.1

8 Date of initial search: 06/212/2019

9 Database(s): Embase Classic+Embase 1947 to 2019 February 05, Ovid MEDLINE(R) and
10 Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to February
11 05, 2019

12 Multifile database codes: emczd = Embase Classic+Embase; ppez= MEDLINE(R) and Epub Ahead of
13 Print, In-Process & Other Non-Indexed Citations and Daily

#	Searches
1	exp Acne Vulgaris/ use ppez
2	exp acne/ use emczd
3	acne.tw.
4	or/1-3
5	exp Diet/
6	nutrition/ use emczd
7	exp Diet Therapy/
8	Functional Food/
9	(diet* or nutrition*).tw.

EARLY SUBMISSION

#	Searches
10	exp Dairy Products/ use ppez
11	exp dairy product/ use emczd
12	(butter* or buttermilk* or casein or chees* or cream or creme or curd* or custard* or dairy or fromage or ghee or ice cream* or ice-cream* or kefir or margarine* or milk* or quark or whey or yog?urt*).tw.
13	Chocolate/
14	(chocolat* or cocoa or cacao).tw.
15	exp Dietary Fats/ use ppez
16	exp dietary intake/ use emczd
17	(food* adj4 (low fat or low-fat or fat-restrict* or fat free or fat-free or low calor* or low-calor* or calor*-restrict* or high fat* or high-fat* or high calor* or high-calor* or fat or fatty or fried or healthy or unhealthy)).tw.
18	Fast Foods/ use ppez
19	fast food/ use emczd
20	(fast food* or fast-food*).tw.
21	glycemic control/ use emczd
22	Glycemic Index/ or Glycemic Load/
23	Carbohydrates/ use ppez or exp Dietary Carbohydrates/ use ppez or exp Sugars/ use ppez
24	carbohydrate/ use emczd or sugar/ use emczd
25	(food* adj4 (carb*1 or carbohydrate*)).tw.
26	(glyc?emic or GI or keto or ketogenic).tw.
27	(low adj2 (carb*1 or carbohydrate* or glucose or gluten or insulin or sucrose or sugar*)).tw.
28	(free adj2 (glucose or gluten or lact?se or sugar*)).tw.
29	(whole food* or whole-food* or wholegrain* or wholewheat* or fibre or fiber or pulses or beans or legume* or lentil* or fruit* or soy or soya or vegetable* or nuts).tw.
30	or/5-29
31	4 and 30
32	limit 31 to english language
33	Letter/ use ppez
34	letter.pt. or letter/ use emczd
35	note.pt.
36	editorial.pt.
37	Editorial/ use ppez
38	News/ use ppez
39	exp Historical Article/ use ppez
40	Anecdotes as Topic/ use ppez
41	Comment/ use ppez
42	Case Report/ use ppez
43	case report/ or case study/ use emczd
44	(letter or comment*).ti.
45	or/33-44
46	randomized controlled trial/ use ppez
47	randomized controlled trial/ use emczd
48	random*.ti,ab.
49	or/46-48
50	45 not 49
51	animals/ not humans/ use ppez
52	animal/ not human/ use emczd
53	nonhuman/ use emczd
54	exp Animals, Laboratory/ use ppez
55	exp Animal Experimentation/ use ppez
56	exp Animal Experiment/ use emczd
57	exp Experimental Animal/ use emczd
58	exp Models, Animal/ use ppez
59	animal model/ use emczd
60	exp Rodentia/ use ppez
61	exp Rodent/ use emczd
62	(rat or rats or mouse or mice).ti.
63	or/50-62
64	32 not 63
65	remove duplicates from 64

1

2 Date of initial search: 06/02/2019

EARLY SUBMISSION

- 1 Database(s): The Cochrane Library: Cochrane Database of Systematic Reviews, Issue 2 of
- 2 12, February 2019; Cochrane Central Register of Controlled Trials, Issue 2 of 12, February
- 3 2019

ID	Search
#1	MeSH descriptor: [Acne Vulgaris] explode all trees
#2	acne:ti,ab
#3	#1 or #2
#4	MeSH descriptor: [Diet] explode all trees
#5	MeSH descriptor: [Diet Therapy] explode all trees
#6	MeSH descriptor: [Food] explode all trees
#7	MeSH descriptor: [Glycemic Index] this term only
#8	MeSH descriptor: [Glycemic Load] explode all trees
#9	MeSH descriptor: [Carbohydrates] this term only
#10	MeSH descriptor: [Dietary Carbohydrates] explode all trees
#11	(diet* or nutrition* or food*):ti,ab
#12	(butter* or buttermilk* or casein or chees* or cream or creme or curd* or custard* or dairy or fromage or ghee or ice cream* or ice-cream* or kefir or margarine* or milk* or quark or whey or yogurt* or yoghurt*):ti,ab
#13	(chocolat* or cocoa or cacao):ti,ab
#14	(low fat or low-fat or fat-restrict* or fat free or fat-free or high fat* or high-fat* or high calor* or high-calor* or fat or fatty or fried or healthy or unhealthy):ti,ab
#15	(calor* near/2 (low or reduc* or restrict*)):ti,ab
#16	(fast food* or fast-food*):ti,ab
#17	(glyc?emic or GI or keto or ketogenic):ti,ab
#18	(carbs or carbohydrate* or glucose or gluten or insulin or lactase or lactose or sucrose or sugar*):ti,ab
#19	(whole food* or whole-food* or wholegrain* or wholewheat* or fibre or fiber or pulses or beans or legume* or lentil* or fruit* or soy or soya or vegetable* or nuts):ti,ab
#20	{or #4-#19}
#21	#3 and #20

4

- 5 Date of initial search: 07/02/2019

- 6 Database(s): NIHR Centre for Reviews and Dissemination: Database of Abstracts of
- 7 Reviews of Effects (DARE); Health Technology Assessment Database (HTA)

1	MeSH DESCRIPTOR Acne Vulgaris EXPLODE ALL TREES
2	(acne) IN DARE, HTA
3	#1 OR #2
4	MeSH DESCRIPTOR Diet EXPLODE ALL TREES
5	MeSH DESCRIPTOR Diet Therapy EXPLODE ALL TREES
6	MeSH DESCRIPTOR Functional Food EXPLODE ALL TREES
7	(diet* or nutrition* or food* or calor* or chocolat* or dairy or fat or milk or glycaemic or glycemic or carbohydrate* or gluten or sugar or keto*) IN DARE, HTA
8	#4 OR #5 OR #6 OR #7
9	#3 AND #8

8

F. Scarring risk factors

1 Literature search strategies for question 11.1

- 11 Date of initial search: 11/06/2019

- 12 Database(s): Embase Classic+Embase 1947 to 2019 June 03, Ovid MEDLINE(R) and Epub
- 13 Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to June 03, 2019

- 14 Multifile database codes: emczd = Embase Classic+Embase; ppez= MEDLINE(R) and Epub Ahead of
- 15 Print, In-Process & Other Non-Indexed Citations and Daily

#	Searches
1	exp Acne Vulgaris/ use ppez
2	exp acne/ use emczd

EARLY SUBMISSION

#	Searches
3	acne.tw.
4	or/1-3
5	(exp scar formation/ or exp skin scar/ or exp scar/) use emczd
6	exp Cicatrix/ use ppez
7	(cicatri* or scar*1 or scarred or scarring or scarification).tw.
8	or/5-7
9	4 and 8
10	risk factor/ use emczd
11	Risk Factors/ use ppez
12	risk factor*.tw.
13	(therapy delay/ or time to treatment/) use emczd
14	Time-to-Treatment/ use ppez
15	((therap* or treatment* or intervention* or medicat*) adj2 (delay* or time)).tw.
16	(atrophic skin disease/ or density/ or disease severity/ or hypertrophic skin disease/ or hypertrophy/ or skin atrophy/ or virulence/) use emczd
17	(Atrophy/ or Hypertrophy/ or Virulence/) use ppez
18	(atroph* or chronic or dens* or distribut* or hyperproliferat* or hypertroph* or locali* or proliferat* or sever* or spread* or virulen*).tw.
19	(disease course/ or disease duration/ or disease exacerbation/) use emczd
20	duration.tw.
21	(exp ethnic group/ or exp "ethnic or racial aspects"/) use emczd
22	exp Ethnic Groups/ use ppez
23	(ethnic* or african* or black* or arab* or asian* or bangladesh* or bengali* or caribbean* or caucasian* or chinese or ethno* or gujarati* or hindu* or hispanic* or indian* or jew* or latino* or muslim* or pacific islander* or pakistan* or punjabi or race or races or racial or roma or romany or romanes or gyps*).tw.
24	(family history/ or genetic association/ or heredity/ or inheritance/) use emczd
25	(Medical History Taking/ or Heredity/ or exp Genetic Background/) use ppez
26	(family histor* or family medical histor* or heredi* or inherit* or genetic*).tw.
27	(exp gender/ or exp "groups by sex"/) use emczd
28	exp Gender Identity/ use ppez
29	(gender* or female* or feminin* or male* or masculin* or sex or sexes).tw.
30	scratching/ use emczd
31	(dermatillomani* or excoriat* or excoriee or pick* or scratch* or squeeze*).tw.
32	or/10-31
33	9 and 32
34	limit 33 to english language
35	Letter/ use ppez
36	letter.pt. or letter/ use emczd
37	note.pt.
38	editorial.pt.
39	Editorial/ use ppez
40	News/ use ppez
41	exp Historical Article/ use ppez
42	Anecdotes as Topic/ use ppez
43	Comment/ use ppez
44	Case Report/ use ppez
45	case report/ or case study/ use emczd
46	(letter or comment*).ti.
47	or/35-46
48	randomized controlled trial/ use ppez
49	randomized controlled trial/ use emczd
50	random*.ti,ab.
51	or/48-50
52	47 not 51
53	animals/ not humans/ use ppez
54	animal/ not human/ use emczd
55	nonhuman/ use emczd
56	exp Animals, Laboratory/ use ppez
57	exp Animal Experimentation/ use ppez
58	exp Animal Experiment/ use emczd
59	exp Experimental Animal/ use emczd
60	exp Models, Animal/ use ppez
61	animal model/ use emczd
62	exp Rodentia/ use ppez
63	exp Rodent/ use emczd
64	(rat or rats or mouse or mice).ti.

EARLY SUBMISSION

#	Searches
65	or/52-64
66	34 not 65

1

2 Date of initial search: 11/06/2019

3 Database(s): The Cochrane Library: Cochrane Database of Systematic Reviews, Issue 6 of
4 12, June 2019; Cochrane Central Register of Controlled Trials, Issue 6 of 12, June 2019

ID	Search
#1	MeSH descriptor: [Acne Vulgaris] explode all trees
#2	acne:ti,ab
#3	#1 or #2
#4	MeSH descriptor: [Cicatrix] explode all trees
#5	(cicatri* or scar or scars or scarred or scarring or scarification):ti,ab
#6	#4 or #5
#7	#3 and #6
#8	MeSH descriptor: [Risk Factors] explode all trees
#9	risk factor*:ti,ab
#10	MeSH descriptor: [Time-to-Treatment] explode all trees
#11	((therap* or treatment* or intervention* or medicat*) near/2 (delay* or time)):ti,ab
#12	MeSH descriptor: [Atrophy] explode all trees
#13	MeSH descriptor: [Hypertrophy] explode all trees
#14	MeSH descriptor: [Virulence] explode all trees
#15	(atroph* or chronic or dens* or distribut* or hyperproliferat* or hypertroph* or locali* or proliferat* or sever* or spread* or virulen*):ti,ab
#16	duration:ti,ab
#17	MeSH descriptor: [Ethnic Groups] explode all trees
#18	(ethnic* or african* or black* or arab* or asian* or bangladesh* or bengali* or caribbean* or caucasian* or chinese or ethno* or gujurati* or hindu* or hispanic* or indian* or jew* or latino* or muslim* or pacific islander* or pakistan* or punjabi or race or races or racial or roma or romany or romanies or gyps*):ti,ab
#19	MeSH descriptor: [Medical History Taking] explode all trees
#20	MeSH descriptor: [Heredity] explode all trees
#21	MeSH descriptor: [Genetic Background] explode all trees
#22	(family histor* or family medical histor* or heredi* or inherit* or genetic*):ti,ab
#23	MeSH descriptor: [Gender Identity] explode all trees
#24	(gender* or female* or feminin* or male* or masculin* or sex or sexes):ti,ab
#25	(dermatillomani* or excoriat* or excoriee or pick* or scratch* or squeeze*):ti,ab
#26	{or #8-#25}
#27	#7 and #26 in Cochrane Reviews, Cochrane Protocols, Trials

5

6. Management of scarring

Literature search strategies for question 12.1

8 Date of initial search: 01/08/2019

9 Database(s): Embase Classic+Embase 1947 to 2019 July 31, Ovid MEDLINE(R) and Epub
10 Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to July 31, 2019

11 Multifile database codes: emczd = Embase Classic+Embase; ppez= MEDLINE(R) and Epub Ahead of
12 Print, In-Process & Other Non-Indexed Citations and Daily

#	Searches
1	exp Acne Vulgaris/ use ppez
2	exp acne/ use emczd
3	acne.tw.
4	or/1-3
5	(exp scar formation/ or exp skin scar/ or exp scar/) use emczd
6	exp Cicatrix/ use ppez
7	(cicatri* or scar*1 or scarred or scarring or scarification).tw.

EARLY SUBMISSION

#	Searches
8	or/5-7
9	4 and 8
10	chemexfoliation/
11	(amino acid/ or 2 hydroxyacid/) use emczd
12	(Amino Acids/ or Hydroxy Acids/) use ppez
13	citric acid/
14	glycolic acid/ use emczd
15	Glycolates/ use ppez
16	lactic acid/
17	malic acid/ use emczd
18	mandelic acid/ use emczd
19	Mandelic Acids/ use ppez
20	pyruvic acid/
21	salicylic acid/
22	trichloroacetic acid/
23	(chemical adj1 (exfoliat* or peel* or reconstruct* or resurfac*)).tw.
24	(CROSS adj (method* or technique*)).tw.
25	(chemoexfoliat* or chemexfoliat* or chemo exfoliat*).tw.
26	((amino or citric or glycol* or lactic or lipohydroxy or malic or mandelic or pyruvic or salicylic or trichloroa?cetic or salicylic-mandelic or alpha hydroxy or "amino fruit") adj acid*).tw.
27	((Jessner* or phenol or pheno or resorcinol* or Baker-Gordon) adj (peel* or solution*)).tw.
28	skin surgery/ use emczd
29	Dermatologic Surgical Procedures/ use ppez
30	skin abrasion/ use emczd
31	Dermabrasion/ use ppez
32	(chemabrasion* or derm?abrasion* or derma abrasion* or dermo abrasion* or microderm?abrasion* or micro derm?abrasion* or dermaplaning).tw.
33	((cutis or cutaneous or derm* or epiderm* or skin) adj (abrasion* or abrat* or plane or planing or resurfac* or re-surfac* or surg*)).tw.
34	((punch* or puncture*) adj (elevat* or excis* or method* or technique*)).tw.
35	exp laser/ use emczd
36	exp Laser Therapy/ use ppez
37	Lasers, Dye/ use ppez
38	exp phototherapy/
39	(laser* or phototherap* or pulsed dye* or PDL).tw.
40	(radiofrequency/ or radiofrequency ablation/) use emczd
41	exp Radiofrequency Therapy/ use ppez
42	electrosurgery/
43	(radiofrequenc* or radio frequenc* or electrosurg*).tw.
44	esthetic surgery/ use emczd
45	Cosmetic Techniques/ use ppez
46	exp skin graft/ use emczd
47	Skin Transplantation/ use ppez
48	(dermatoplast* or derm?plast* or ((cutis or cutaneous or derm* or epiderm* or skin*) adj (graft* or surg* or transplant*))).tw.
49	adipose tissue/su use emczd
50	Adipose Tissue/su, tr use ppez
51	injectable implant/ use emczd
52	Dermal Fillers/ use ppez
53	(facial sculpt* or tissue augment*).tw.
54	((adipose or cutis or cutaneous or derm* or epiderm* or inject* or skin or subcutaneous or subderm* or tissue) adj (fill* or implant*)).tw.
55	cosmoplast*.tw.
56	collagen/ad, dl, tp, td use emczd
57	Collagen/ad, tu use ppez
58	hyaluronic acid/
59	methacrylic acid methyl ester/ use emczd
60	"poly(methyl methacrylate)"/ use emczd
61	exp Methylmethacrylates/ use ppez
62	polylactic acid/ use emczd
63	polyacrylamide/ use emczd
64	(collagen* or ((hyaluronic or methacrylic or methylmethacry* or polymethylmethacry* or poly methyl methacry* or polylactic or poly-l-lactic or poly levo lactic or polyacrylamide or polyalkylimide) adj (acid* or fill*))).tw.
65	microneedle/ use emczd
66	Needles/ use ppez
67	(microneedi* or micro needl* or needl*).tw.

EARLY SUBMISSION

#	Searches
68	subcision*.tw.
69	(intralesional drug administration/ and steroid/) use emczd
70	(Injections, Intralesional/ and Steroids/) use ppez
71	((intralesion* or intra lesion* or subcutaneous) adj2 steroid*).tw.
72	(inject* adj2 steroid*).tw.
73	(silicone gel/ or exp silicone/) use emczd
74	exp Silicones/ use ppez
75	silicon* gel*.tw.
76	exp cryotherapy/
77	Hypothermia, Induced/ use ppez
78	(cold/ or exp low temperature procedures/) use emczd
79	exp Cold Temperature/ use ppez
80	((cold or cool* or ice) adj3 (therap* or treat*)).tw.
81	liquid nitrogen.tw.
82	(cryoablat* or cryopeel* or cryosurg* or cryoslush or cryotherap* or cryogenic therap* or cryogenic treat* or cryotherm* or cryotreat*).tw.
83	imiquimod/
84	(aldara or imiquimod).tw.
85	fluorouracil/
86	(fluorouracil or 5-fluorouracil or 5fluorouracil or 5FU or 5-FU).tw.
87	interferon/ use emczd
88	Interferons/ use ppez
89	interferon*.tw.
90	bleomycin/
91	bleomycin.tw.
92	(combination drug therapy/ or drug combination/) use emczd
93	Drug Therapy, Combination/ use ppez
94	Combined Modality Therapy/ use ppez
95	((combin* or concomitant or multimod* or multi mod*) adj2 (therap* or treatment* or drug* or intervention*)).tw.
96	or/10-95
97	9 and 96
98	Letter/ use ppez
99	letter.pt. or letter/ use emczd
100	note.pt.
101	editorial.pt.
102	Editorial/ use ppez
103	News/ use ppez
104	exp Historical Article/ use ppez
105	Anecdotes as Topic/ use ppez
106	Comment/ use ppez
107	Case Report/ use ppez
108	case report/ or case study/ use emczd
109	(letter or comment*).ti.
110	or/98-109
111	randomized controlled trial/ use ppez
112	randomized controlled trial/ use emczd
113	random*.ti,ab.
114	or/111-113
115	110 not 114
116	animals/ not humans/ use ppez
117	animal/ not human/ use emczd
118	nonhuman/ use emczd
119	exp Animals, Laboratory/ use ppez
120	exp Animal Experimentation/ use ppez
121	exp Animal Experiment/ use emczd
122	exp Experimental Animal/ use emczd
123	exp Models, Animal/ use ppez
124	animal model/ use emczd
125	exp Rodentia/ use ppez
126	exp Rodent/ use emczd
127	(rat or rats or mouse or mice).ti.
128	or/115-127
129	97 not 128
130	limit 129 to english language

1 Date of initial search: 01/08/2019

EARLY SUBMISSION

- 1 Database(s): The Cochrane Library: Cochrane Database of Systematic Reviews, Issue 8 of
- 2 12, August 2019; Cochrane Central Register of Controlled Trials, Issue 8 of 12, August 2019

ID	Search
#1	MeSH descriptor: [Acne Vulgaris] explode all trees
#2	acne:ti,ab
#3	#1 or #2
#4	MeSH descriptor: [Cicatrix] explode all trees
#5	(cicatri* or scar or scars or scarred or scarring or scarification):ti,ab
#6	#4 or #5
#7	#3 and #6
#8	MeSH descriptor: [Chemexfoliation] this term only
#9	MeSH descriptor: [Amino Acids] this term only
#10	MeSH descriptor: [Hydroxy Acids] this term only
#11	MeSH descriptor: [Citric Acid] this term only
#12	MeSH descriptor: [Glycolates] this term only
#13	MeSH descriptor: [Lactic Acid] this term only
#14	MeSH descriptor: [Mandelic Acids] this term only
#15	MeSH descriptor: [Pyruvic Acid] this term only
#16	MeSH descriptor: [Salicylic Acid] this term only
#17	MeSH descriptor: [Trichloroacetic Acid] this term only
#18	(chemical near (exfoliat* or peel* or reconstruct* or resurfac*)):ti,ab
#19	(CROSS near (method* or technique*)):ti,ab
#20	(chemoexfoliat* or chemexfoliat* or chemo exfoliat*):ti,ab
#21	((amino or citric or glycol* or lactic or lipohydroxy or malic or mandelic or pyruvic or salicylic or trichloroa?cetic or salicylic-mandelic or alpha hydroxy or "amino fruit") next acid*):ti,ab
#22	((Jessner* or phenol or pheno or resorcinol* or Baker-Gordon) next (peel* or solution*)):ti,ab
#23	MeSH descriptor: [Dermatologic Surgical Procedures] this term only
#24	MeSH descriptor: [Dermabrasion] this term only
#25	(chemabrasion* or dermabrasion* or dermoabrasion* or derma abrasion* or dermo abrasion* or microdermabrasion* or microdermoabrasion* or micro dermabrasion* or micro dermoabrasion* or dermaplaning).ti,ab
#26	((cutis or cutaneous or derm* or epiderm* or skin) next (abrasion* or abrat* or plane or planing or resurfac* or resurfac* or surg*)):ti,ab
#27	((punch* or puncture* next (elevat* or excis* or method* or technique*)):ti,ab
#28	MeSH descriptor: [Laser Therapy] explode all trees
#29	MeSH descriptor: [Lasers, Dye] this term only
#30	MeSH descriptor: [Phototherapy] explode all trees
#31	(laser* or phototherap* or pulsed dye* or PDL).ti,ab
#32	MeSH descriptor: [Radiofrequency Therapy] explode all trees
#33	MeSH descriptor: [Electrosurgery] this term only
#34	(radiofrequenc* or radio frequenc* or electrosurg*):ti,ab
#35	MeSH descriptor: [Cosmetic Techniques] this term only
#36	MeSH descriptor: [Skin Transplantation] this term only
#37	(dermatoplast* or dermaplast* or dermoplast* or ((cutis or cutaneous or derm* or skin*) adj (graft* or surg* or transplant*)):ti,ab
#38	MeSH descriptor: [Adipose Tissue] explode all trees and with qualifier(s): [surgery - SU, transplantation - TR]
#39	MeSH descriptor: [Dermal Fillers] this term only
#40	(facial sculpt* or tissue augment*):ti,ab
#41	((adipose or cutis or cutaneous or derm* or epiderm* or inject* or skin or subcutaneous or subderm* or tissue) next (fill* or implant*)):ti,ab
#42	cosmoplast*:ti,ab
#43	MeSH descriptor: [Collagen] explode all trees and with qualifier(s): [administration & dosage - AD, therapeutic use - TU]
#44	MeSH descriptor: [Hyaluronic Acid] this term only
#45	MeSH descriptor: [Methylmethacrylates] explode all trees
#46	(collagen* or ((hyaluronic or methacrylic or methylmethacryl* or polymethylmethacry* or poly methyl methacry* or polylactic or poly-l-lactic or poly levo lactic or polyacrylamide or polyalkylimide) next (acid* or fill*)):ti,ab
#47	MeSH descriptor: [Needles] this term only
#48	(microneedl* or micro needl* or needl*):ti,ab
#49	subcision*:ti,ab
#50	((intralesion* or intra lesion*) near/2 (corticosteroid* or steroid*)):ti,ab
#51	(inject* near/2 (corticosteroid* or steroid*)):ti,ab
#52	MeSH descriptor: [Silicones] explode all trees
#53	silicon* gel*:ti,ab
#54	MeSH descriptor: [Cryotherapy] explode all trees
#55	MeSH descriptor: [Hypothermia, Induced] this term only
#56	MeSH descriptor: [Cold Temperature] explode all trees

EARLY SUBMISSION

ID	Search
#57	((cold or cool* or freez* or ice) near/3 (therap* or treat*)):ti,ab
#58	liquid nitrogen:ti,ab
#59	(cryoablat* or cryopeel* or cryosurg* or cryoslush or cryotherap* or cryogenic therap* or cryogenic treat* or cryotherm* or cryotreat*):ti,ab
#60	MeSH descriptor: [Imiquimod] this term only
#61	(aldara or imiquimod):ti,ab
#62	MeSH descriptor: [Fluorouracil] explode all trees
#63	(fluorouracil or "5FU" or "5-FU"):ti,ab
#64	MeSH descriptor: [Interferons] explode all trees
#65	interferon:ti,ab
#66	MeSH descriptor: [Bleomycin] this term only
#67	bleomycin:ti,ab
#68	MeSH descriptor: [Drug Therapy, Combination] this term only
#69	((combin* or concomitant or multimod* or multi mod*) near (therap* or treatment* or drug* or intervention*)):ti,ab
#70	{or #8-#69}
#71	#7 and #70

1

H. Information and support

Literature search strategies for question 13.1

4 Date of initial search: 19/07/2019

5 Database(s): Embase 1980 to 2019 Week 28, Ovid MEDLINE(R) and Epub Ahead of Print,
6 In-Process & Other Non-Indexed Citations and Daily 1946 to July 18, 2019, PsycINFO 1806
7 to July Week 3 2019

8 Multifile database codes: emez = Embase; ppez = MEDLINE(R) and Epub Ahead of Print, In-Process
9 & Other Non-Indexed Citations and Daily: psyh = PsycINFO

#	Searches
1	exp acne vulgaris/ use ppez
2	exp acne/ use emez
3	acne.tw.
4	or/1-3
5	(access to information/ or exp audiovisual aid/ or blogging/ or consumer advocacy/ or consumer health information/ or exp decision support system/ or e-mail/ or email support/ or health education/ or health promotion/ or hotline/ or text messaging/ or text messaging support/ or information/ or information center/ or information dissemination/ or information seeking/ or information service/ or exp Internet/ or exp interpersonal communication/ or medical information/ or mobile application/ or patient education/ or patient decision making/ or patient information/ or exp patient participation/ or exp self help/ or social support/ or exp support group/ or telehealth/ or telemedicine/ or telephone/ or telephone support/ or visual information/ or publication/ or exp mobile phone/ or exp mass communication/ or psychosocial care/) use emez
6	(access to information/ or exp Audiovisual Aids/ or blogging/ or communication/ or exp communications media/ or consumer advocacy/ or consumer health information/ or decision support systems, clinical/ or electronic mail/ or government publications as topic/ or health communication/ or health education/ or exp health information management/ or health knowledge, attitudes, practice/ or health literacy/ or health promotion/ or hotlines/ or information centers/ or information dissemination/ or information seeking behavior/ or information services/ or exp Internet/ or mobile applications/ or exp mobile phone/ or pamphlets/ or patient education as topic/ or patient participation/ or self help groups/ or social media/ or exp social support/ or telemedicine/ or telephone/ or text messaging/) use ppez
7	(exp Audiovisual communications media/ or exp Advocacy/ or Client Education/ or exp communication/ or exp communications media/ or computer mediated communication/ or exp Decision Support Systems/ or Health Education/ or Health Care Utilization/ or exp Help Seeking Behavior/ or exp Health Care Seeking Behavior/ or Health Promotion/ or hot line services/ or exp internet/ or exp interpersonal communication/ or information services/ or exp mass media/ or Reading Materials/ or Support Groups/ or exp Self-Help Techniques/ or social support/ or exp social media/ or telephone systems/ or telemedicine/ or text messaging/ or exp Treatment Compliance/ or exp verbal communication/ or exp written communication/) use psyh
8	(group* adj2 support*).tw.
9	(psychosocial* adj2 support*).tw.
10	((inform* or support* or advice or advise or guidance) adj3 (adherence or cause* or treatment* or antibiotic* or medication* or prognosis or side effect* or sideeffect* or diet* or cosmetic* or therap* or isotretinoin or roaccutane)).tw.

EARLY SUBMISSION

#	Searches
11	(blog* or "mobile* app*" or "mobile* phone* app*" or "mobile* health* app*" or "download* app*" or ipad app* or booklet* or brochure* or cellphone* or dvd* or handout* or ict or internet* or leaflet* or manual or manuals or media or mobile* or online app* or pamphlet* or phone* or publication* or smartphone* or telephone* or webpage* or web based or website* or web site* or web page* or video*).tw.
12	((discussion* or online* or on-line*) adj3 (forum* or fora)).tw.
13	messag* board*.tw.
14	(hotline* or helpline* or hot-line* or help-line*).tw.
15	(Social adj (network* or media)).tw.
16	((inform* or advice* or support* or guidance) adj5 (selfcare* or self care or selfmanag* or self manag* or skin care* or skincare* or "skin change*")).tw.
17	((user* or family or families or parent* or father* or mother* or carer* or caregive* or care giv*) adj3 (advice or inform* or support* or guidance)).tw.
18	(information* adj3 (model* or program* or need* or require* or seek* or access* or dissem* or shar* or provid* or provision)).tw.
19	((inform* or support*) adj3 (help* or support* or benefi* or hinder* or hindran* or barrier* or facilitate* or practical* or clear* or accurate*).tw.
20	((information* or support* or advice or guidance) adj3 (type* or content* or method* or quality or format*).tw.
21	information sheet.tw.
22	patient guidance.tw.
23	or/5-22
24	Qualitative Research/
25	exp interview/ use emez
26	interview/ use ppez
27	interviews/ use psyh
28	interview*.tw.
29	thematic analysis/ use emez
30	(theme\$ or thematic).mp.
31	qualitative.af.
32	questionnaire\$.mp.
33	ethnological research.mp.
34	ethnograph\$.mp.
35	ethnonursing.af.
36	phenomenol\$.af.
37	(life stor\$ or women* stor\$).mp.
38	(grounded adj (theor\$ or study or studies or research or analys?s)).af.
39	((data adj1 saturat\$) or participant observ\$.tw.
40	(field adj (study or studies or research)).tw.
41	biographical method.tw.
42	theoretical sampl\$.af.
43	((purpos\$ adj4 sampl\$) or (focus adj group\$)).af.
44	open ended questionnaire/ use emez
45	((open end* or openend*) adj3 questionnaire*).tw.
46	(account or accounts or unstructured or openended or open ended or text\$ or narrative\$.mp.
47	(life world or life-world or conversation analys?s or personal experience\$ or theoretical saturation).mp.
48	((lived or life) adj experience\$.mp.
49	narrative analys?s.af.
50	(parental attitude/ or patient satisfaction/ or patient preference/ or personal experience/) use emez
51	(exp parental attitudes/ or exp client attitudes/) use psyh
52	exp patient satisfaction/ use ppez
53	(dissatisf* or expectation* or experienc* or opinion* or perceive* or perspective* or preferenc* or satisf* or view*).tw.
54	or/24-53
55	4 and 23 and 54
56	limit 55 to (yr="2008 - current" and english language)
57	Letter/ use ppez
58	letter.pt. or letter/ use emez
59	note.pt.
60	editorial.pt.
61	Editorial/ use ppez
62	News/ use ppez
63	news media/ use psyh
64	exp Historical Article/ use ppez
65	Anecdotes as Topic/ use ppez
66	Comment/ use ppez
67	Case Report/ use ppez
68	case report/ or case study/ use emez
69	Case report/ use psyh

EARLY SUBMISSION

#	Searches
70	(letter or comment*).ti.
71	or/57-70
72	randomized controlled trial/ use ppez
73	randomized controlled trial/ use emez
74	random*.ti,ab.
75	cohort studies/ use ppez
76	cohort analysis/ use emez
77	cohort analysis/ use psyh
78	case-control studies/ use ppez
79	case control study/ use emez
80	or/72-79
81	71 not 80
82	animals/ not humans/ use ppez
83	animal/ not human/ use emez
84	nonhuman/ use emez
85	"primates (nonhuman)"/
86	exp Animals, Laboratory/ use ppez
87	exp Animal Experimentation/ use ppez
88	exp Animal Experiment/ use emez
89	exp Experimental Animal/ use emez
90	animal research/ use psyh
91	exp Models, Animal/ use ppez
92	animal model/ use emez
93	animal models/ use psyh
94	exp Rodentia/ use ppez
95	exp Rodent/ use emez
96	rodents/ use psyh
97	(rat or rats or mouse or mice).ti.
98	or/81-97
99	56 not 98
100	remove duplicates from 99

1 Date of initial search: 19/07/2019

2 Database(s): CINAHL Plus (Cumulative Index to Nursing and Allied Health Literature) 1937-

3 current, EBSCO Host

#	Searches	Limiters
S44	S42 AND S43	Limiters - Published Date: 20080101-20191231; Clinical Queries: Qualitative - Best Balance; Language: English Search modes - Boolean/Phrase
S43	S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR S28 OR S29 OR S30 OR S31 OR S32 OR S33 OR S34 OR S35 OR S36 OR S37 OR S38 OR S39 OR S40 OR S41	Search modes - Boolean/Phrase
S42	S1 OR S2	Search modes - Boolean/Phrase
S41	TI (patient N1 guidance) OR AB (patient N1 guidance)	Search modes - Boolean/Phrase
S40	TI (information N1 sheet) OR AB (information N1 sheet)	Search modes - Boolean/Phrase
S39	TI (((information* or support* or advice or guidance) N3 (type* or content* or method* or quality or format*))) OR AB (((information* or support* or advice or guidance) N3 (type* or content* or method* or quality or format*)))	Search modes - Boolean/Phrase
S38	TI (((inform* or support*) N3 (help* or support* or benefi* or hinder* or hindran* or barrier* or facilitate* or practical* or clear* or accurate*))) OR AB (((inform* or support*) N3 (help* or support* or benefi* or hinder* or hindran* or barrier* or facilitate* or practical* or clear* or accurate*)))	Search modes - Boolean/Phrase
S37	TI (information* N3 (model* or program* or need* or require* or seek* or access* or dissem* or shar* or provid* or provision)) OR AB (information* N3 (model* or program* or need* or require* or seek* or access* or dissem* or shar* or provid* or provision))	Search modes - Boolean/Phrase
S36	TI (((user* or family or families or parent* or father* or mother* or carer* or caregive* or care giv*) N3 (advice or inform* or support* or guidance))) OR AB (((user* or family	Search modes - Boolean/Phrase

EARLY SUBMISSION

	Searches	
	or families or parent* or father* or mother* or carer* or caregiver* or care giv*) N3 (advice or inform* or support* or guidance))	
S35	TI (((inform* or advice* or support* or guidance) N5 (selfcare* or self-care or selfmanag* or self-manag* or skin-care* or skincare* or skin-change*))) OR AB (((inform* or advice* or support* or guidance) N5 (selfcare* or self-care or selfmanag* or self-manag* or skin-care* or skincare* or skin-change*)))	Search modes - Boolean/Phrase
S34	TI ((Social N1 (network* or media))) OR AB ((Social N1 (network* or media)))	Search modes - Boolean/Phrase
S33	TI ((hotline* or helpline* or hot-line* or help-line*)) OR AB ((hotline* or helpline* or hot-line* or help-line*))	Search modes - Boolean/Phrase
S32	TI (messag* N1 board*) OR AB (messag* N1 board*)	Search modes - Boolean/Phrase
S31	TI (((discussion* or online* or on-line*) N3 (forum* or fora))) OR AB (((discussion* or online* or on-line*) N3 (forum* or fora)))	Search modes - Boolean/Phrase
S30	TI (mobile* N1 app*) or (mobile* N1 phone* N1 app*) or (mobile* N1 health* N1 app*) or (download* N1 app*) or (ipad N1 app*) or booklet* or brochure* or cellphone* or dvd* or handout* or ict or internet* or leaflet* or manual or manuals or media or mobile* or (online N1 app*) or pamphlet* or phone* or publication* or smartphone* or telephone* or webpage* or web-based or website* or web-site* or web-page* or video*) OR AB (mobile* N1 app*) or (mobile* N1 phone* N1 app*) or (mobile* N1 health* N1 app*) or (download* N1 app*) or (ipad N1 app*) or booklet* or brochure* or cellphone* or dvd* or handout* or ict or internet* or leaflet* or manual or manuals or media or mobile* or (online N1 app*) or pamphlet* or phone* or publication* or smartphone* or telephone* or webpage* or web-based or website* or web-site* or web-page* or video*)	Search modes - Boolean/Phrase
S29	TI (((inform* or support* or advice or advise or guidance) N3 (adherence or cause* or treatment* or antibiotic* or medication* or prognosis or side effect* or sideeffect* or diet* or cosmetic* or therap* or isotretinoin or roaccutane))) OR AB (((inform* or support* or advice or advise or guidance) N3 (adherence or cause* or treatment* or antibiotic* or medication* or prognosis or side effect* or sideeffect* or diet* or cosmetic* or therap* or isotretinoin or roaccutane)))	Search modes - Boolean/Phrase
S28	(MH "Social Media+")	Search modes - Boolean/Phrase
S27	(MH "Communications Media")	Search modes - Boolean/Phrase
S26	(MH "Telephone")	Search modes - Boolean/Phrase
S25	(MH "Telehealth") OR (MH "Telemedicine")	Search modes - Boolean/Phrase
S24	(MH "Pamphlets")	Search modes - Boolean/Phrase
S23	(MH "Consumer Participation")	Search modes - Boolean/Phrase
S22	(MH "Decision Making, Patient")	Search modes - Boolean/Phrase
S21	(MH "Patient Education")	Search modes - Boolean/Phrase
S20	(MH "Cellular Phone+")	Search modes - Boolean/Phrase
S19	(MH "Mobile Applications")	Search modes - Boolean/Phrase
S18	(MH "Internet+") OR (MH "Social Media+")	Search modes - Boolean/Phrase
S17	(MH "Health Literacy")	Search modes - Boolean/Phrase
S16	(MH "Health Knowledge")	Search modes - Boolean/Phrase
S15	(MH "Government Publications")	Search modes - Boolean/Phrase
S14	(MH "Information Centers")	Search modes - Boolean/Phrase
S13	(MH "Information Seeking Behavior")	Search modes - Boolean/Phrase
S12	(MH "Health Information Networks")	Search modes - Boolean/Phrase
S11	(MH "Text Messaging")	Search modes - Boolean/Phrase
S10	(MH "Health Promotion")	Search modes - Boolean/Phrase

EARLY SUBMISSION

	Searches	
S9	(MH "Health Education")	Search modes - Boolean/Phrase
S8	(MH "Email")	Search modes - Boolean/Phrase
S7	(MH "Decision Support Systems, Clinical")	Search modes - Boolean/Phrase
S6	(MH "Consumer Health Information")	Search modes - Boolean/Phrase
S5	(MH "Consumer Advocacy")	Search modes - Boolean/Phrase
S4	(MH "Blogs")	Search modes - Boolean/Phrase
S3	(MH "Access to Information")	Search modes - Boolean/Phrase
S2	TI acne OR AB acne	Search modes - Boolean/Phrase
S1	(MH "Acne Vulgaris")	Search modes - Boolean/Phrase

I. Referral

Literature search strategies for question 14.1

3 Date of initial search: 05/12/2019

4 Database(s): Embase Classic+Embase 1947 to 2019 December 03, Ovid MEDLINE(R) and

5 Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to December 03, 2019

7 Multifile database codes: emczd = Embase Classic+Embase; ppez= MEDLINE(R) and Epub Ahead of
8 Print, In-Process & Other Non-Indexed Citations and Daily

#	Searches
1	exp Acne Vulgaris/ use ppez
2	exp acne/ use emczd
3	acne.tw.
4	or/1-3
5	patient referral/ use emczd
6	exp "Referral and Consultation"/ use ppez
7	(refer? or referral* or referred or referring or consult* or second opinion*).tw.
8	or/5-7
9	4 and 8
10	limit 9 to english language
11	Letter/ use ppez
12	letter.pt. or letter/ use emczd
13	note.pt.
14	editorial.pt.
15	Editorial/ use ppez
16	News/ use ppez
17	exp Historical Article/ use ppez
18	Anecdotes as Topic/ use ppez
19	Comment/ use ppez
20	Case Report/ use ppez
21	case report/ or case study/ use emczd
22	(letter or comment*).ti.
23	or/11-22
24	randomized controlled trial/ use ppez
25	randomized controlled trial/ use emczd
26	random*.ti,ab.
27	or/24-26
28	23 not 27
29	animals/ not humans/ use ppez
30	animal/ not human/ use emczd
31	nonhuman/ use emczd

EARLY SUBMISSION

#	Searches
32	exp Animals, Laboratory/ use ppez
33	exp Animal Experimentation/ use ppez
34	exp Animal Experiment/ use emczd
35	exp Experimental Animal/ use emczd
36	exp Models, Animal/ use ppez
37	animal model/ use emczd
38	exp Rodentia/ use ppez
39	exp Rodent/ use emczd
40	(rat or rats or mouse or mice).ti.
41	or/28-40
42	10 not 41

1 Date of initial search: 05/12/2019

2 The Cochrane Library: Cochrane Database of Systematic Reviews, Issue 12 of 12, December
3 2019; Cochrane Central Register of Controlled Trials, Issue 12 of 12, December 2019

ID	Search
#1	MeSH descriptor: [Acne Vulgaris] explode all trees
#2	acne:ti,ab
#3	#1 or #2
#4	MeSH descriptor: [Referral and Consultation] explode all trees
#5	(refer or refers or referral* or referred or referring or consult* or second opinion*):ti,ab
#6	#4 or #5
#7	#3 and #6

4

d. Health Economics

Literature search strategies for health economics

7 Date of initial search: 12/12/2018

8 Last searched: 06/05/2020

9 Database(s): Embase 1980 to 2018 Week 50, Ovid MEDLINE(R) and Epub Ahead of Print,
10 In-Process & Other Non-Indexed Citations and Daily 1946 to May 05, 2020

11 Multifile database codes: emez = Embase; ppez = MEDLINE(R) and Epub Ahead of Print, In-Process
12 & Other Non-Indexed Citations and Daily

#	Searches
1	exp Acne Vulgaris/ use ppez
2	exp acne/ use emez
3	acne.tw.
4	or/1-3
5	Economics/
6	Value of life/
7	exp "Costs and Cost Analysis"/
8	exp Economics, Hospital/
9	exp Economics, Medical/
10	Economics, Nursing/
11	Economics, Pharmaceutical/
12	exp "Fees and Charges"/
13	exp Budgets/
14	(or/5-13) use ppez
15	health economics/
16	exp economic evaluation/
17	exp health care cost/
18	exp fee/
19	budget/
20	funding/

EARLY SUBMISSION

#	Searches
21	(or/15-20) use emez
22	budget*.ti,ab.
23	cost*.ti.
24	(economic* or pharmaco?economic*).ti.
25	(price* or pricing*).ti,ab.
26	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
27	(financ* or fee or fees).ti,ab.
28	(value adj2 (money or monetary)).ti,ab.
29	or/22-27
30	14 or 21 or 29
31	4 and 30
32	limit 31 to english language
33	limit 32 to yr="2004 -Current"
34	remove duplicates from 33

1 Date of initial search: 12/12/2018

2] Last searched: 06/05/2020

3 Databases(s): NIHR Centre for Reviews and Dissemination: Health Technology Assessment

4 Database (HTA) and the NHS Economic Evaluation Database (NHS EED)

1	MeSH DESCRIPTOR Acne Vulgaris EXPLODE ALL TREES
2	(acne) IN NHSEED, HTA FROM 2004 TO 2018
3	#1 OR #2

Literature search strategies for health utility values

6 Date of initial search: 29/01/2019

7 Last searched: 06/05/2020

8 Database(s): Embase 1980 to 2019 Week 04, Ovid MEDLINE(R) and Epub Ahead of Print,

9 In-Process & Other Non-Indexed Citations and Daily 1946 to May 05, 2020

10 Multifile database codes: emez = Embase; ppez = MEDLINE(R) and Epub Ahead of Print, In-Process

11 & Other Non-Indexed Citations and Daily

#	Searches
1	exp Acne Vulgaris/ use ppez
2	exp acne/ use emez
3	acne.tw.
4	or/1-3
5	Quality-Adjusted Life Years/ use ppez
6	Sickness Impact Profile/
7	quality adjusted life year/ use emez
8	"quality of life index"/ use emez
9	(quality adjusted or quality adjusted life year*).tw.
10	(qaly* or qal or qald* or qale* or qtime* or qwb* or daly).tw.
11	(illness state* or health state*).tw.
12	(hui or hui2 or hui3).tw.
13	(multiattribute* or multi attribute*).tw.
14	(utilit* adj3 (score*1 or valu* or health* or cost* or measur* or disease* or mean or gain or gains or index*)).tw.
15	utilities.tw.
16	(eq-5d* or eq5d* or eq-5* or eq5* or euroqual* or euro qual* or euroqual 5d* or euro qual 5d* or euro qol* or euroqol* or euro qol* or euroquol* or euro quol5d* or euroquol5d* or eur qol* or eurqol* or eur qol5d* or eurqol5d* or eur?qul* or eur?qul5d* or euro* quality of life or european qol).tw.
17	(euro* adj3 (5 d* or 5d* or 5 dimension* or 5dimension* or 5 domain* or 5domain*)).tw.
18	(sf36 or sf 36 or sf thirty six or sf thirtysix).tw.
19	(time trade off*1 or time tradeoff*1 or tto or timetradeoff*1).tw.
20	Quality of Life/ and ((quality of life or qol) adj (score*1 or measure*1)).tw.
21	Quality of Life/ and ec.fs.
22	Quality of Life/ and (health adj3 status).tw.
23	(quality of life or qol).tw. and Cost-Benefit Analysis/ use ppez

EARLY SUBMISSION

#	Searches
24	(quality of life or qol).tw. and cost benefit analysis/ use emez
25	((qol or hrqol or quality of life).tw. or *quality of life/) and ((qol or hrqol* or quality of life) adj2 (increas* or decreas* or improv* or declin* or reduc* or high* or low* or effect or effects or worse or score or scores or change*1 or impact*1 or impacted or deteriorat*)).ab.
26	Cost-Benefit Analysis/ use ppez and cost-effectiveness ratio*.tw. and (cost-effectiveness ratio* and (perspective* or life expectanc*)).tw.
27	cost benefit analysis/ use emez and cost-effectiveness ratio*.tw. and (cost-effectiveness ratio* and (perspective* or life expectanc*)).tw.
28	*quality of life/ and (quality of life or qol).ti.
29	quality of life/ and ((quality of life or qol) adj3 (improv* or chang*)).tw.
30	quality of life/ and health-related quality of life.tw.
31	Models, Economic/ use ppez
32	economic model/ use emez
33	or/5-32
34	4 and 33
35	limit 34 to english language
36	limit 35 to yr="2004 -Current"
37	remove duplicates from 36

1