

Draft for consultation

Osteoarthritis: assessment and management

NICE guideline: search strategies

NICE guideline <number>

Search strategies

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*This guideline was developed by the
National Guideline Centre*

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Appendix A: Search Strategy

This literature search strategy was used for the following reviews:

- What is clinical and cost-effectiveness of using imaging in the diagnosis of osteoarthritis in people with suspected osteoarthritis?
- What information on osteoarthritis, including the management of flare-ups, do people with osteoarthritis, their family and carers need during and after diagnosis?
- What is the clinical and cost-effectiveness of exercise therapy for the management of osteoarthritis?
- What is the clinical and cost-effectiveness of manual therapy for the management of osteoarthritis?
- What is the clinical and cost-effectiveness of acupuncture for the management of osteoarthritis?
- What is the clinical and cost-effectiveness of electrotherapy for the management of osteoarthritis?
- What is the clinical and cost-effectiveness of devices (such as supports, splints and braces) for the management of osteoarthritis?
- Intra-articular injections with corticosteroids or hyaluronic acid for the management of osteoarthritis?
- What is the clinical and cost-effectiveness of treatment packages (that include combinations of interventions) for the management of osteoarthritis?
- What is the clinical and cost-effectiveness of using radiological investigations (for example: x-ray, ultrasound, MRI) to inform management choices for people with osteoarthritis?
- What is the clinical and cost-effectiveness of arthroscopic procedures for the management of osteoarthritis?
- What is the benefit of weight loss for the management of osteoarthritis in overweight and obese people?
- Is regular follow-up and review needed for people with osteoarthritis?
- What are the indicators for referral for possible primary joint replacement surgery?
- Do people with osteoarthritis who are at less than or more than healthy weight have similar outcomes after joint replacement surgery to people of healthy weight?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

A.1 Clinical literature search strategy

A.1.1 Imaging for diagnosis

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies for interventions as these concepts may not be well described in title, abstract or indexes and therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 1: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 17 November 2021	Randomised controlled trials Systematic review studies Observational studies Exclusions (animals studies, letters, comments)
Embase (OVID)	1974 – 17 November 2021	Randomised controlled trials Systematic review studies Observational studies Exclusions (animals studies, letters, comments)
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue 11 of 12 CENTRAL to 2021 Issue 11 of 12	None

Medline (Ovid) search terms

1.	exp osteoarthritis/
2.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*).ti,ab.
3.	(degenerative adj2 arthritis).ti,ab.
4.	coxarthrosis.ti,ab.
5.	gonarthrosis.ti,ab.
6.	or/1-5
7.	letter/
8.	editorial/
9.	news/
10.	exp historical article/
11.	Anecdotes as Topic/
12.	comment/
13.	case report/
14.	(letter or comment*).ti.
15.	or/7-14
16.	randomized controlled trial/ or random*.ti,ab.
17.	15 not 16
18.	animals/ not humans/
19.	exp Animals, Laboratory/
20.	exp Animal Experimentation/
21.	exp Models, Animal/
22.	exp Rodentia/
23.	(rat or rats or mouse or mice or rodent*).ti.
24.	or/17-23
25.	6 not 24
26.	limit 25 to English language
27.	Magnetic Resonance Imaging/
28.	(mri* or nmr* or magnetic resonance).ti,ab.

29.	tomography, x-ray computed/ or tomography, x ray/
30.	((radiograph* or compute*) adj3 tomograph*).ti,ab.
31.	(echogra* or echotomogra* or sonograph* or ultrasound or ultrasonogra* or x-ray).ti,ab.
32.	(ultrasonic adj2 (tomogra* or imag* or diagnos*)).ti,ab.
33.	((CT or CAT) adj2 (imag* or scan* or diagnos*)).ti,ab.
34.	or/27-33
35.	26 and 34
36.	randomized controlled trial.pt.
37.	controlled clinical trial.pt.
38.	randomi#ed.ti,ab.
39.	placebo.ab.
40.	randomly.ti,ab.
41.	Clinical Trials as topic.sh.
42.	trial.ti.
43.	or/36-42
44.	Meta-Analysis/
45.	exp Meta-Analysis as Topic/
46.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
47.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
48.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
49.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
50.	(search* adj4 literature).ab.
51.	(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.
52.	cochrane.jw.
53.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
54.	or/44-53
55.	Epidemiologic studies/
56.	Observational study/
57.	exp Cohort studies/
58.	(cohort adj (study or studies or analys* or data)).ti,ab.
59.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
60.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
61.	Controlled Before-After Studies/
62.	Historically Controlled Study/
63.	Interrupted Time Series Analysis/
64.	(before adj2 after adj2 (study or studies or data)).ti,ab.
65.	exp case control studies/
66.	case control*.ti,ab.
67.	Cross-sectional studies/
68.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
69.	or/55-68
70.	35 and (43 or 54 or 69)

Embase (Ovid) search terms

1.	exp osteoarthritis/
2.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*).ti,ab.
3.	(degenerative adj2 arthritis).ti,ab.
4.	coxarthrosis.ti,ab.
5.	gonarthrosis.ti,ab.
6.	or/1-5
7.	letter.pt. or letter/
8.	note.pt.
9.	editorial.pt.
10.	case report/ or case study/
11.	(letter or comment*).ti.
12.	or/7-11
13.	randomized controlled trial/ or random*.ti,ab.
14.	12 not 13
15.	animal/ not human/
16.	nonhuman/
17.	exp Animal Experiment/
18.	exp Experimental Animal/
19.	animal model/
20.	exp Rodent/
21.	(rat or rats or mouse or mice or rodent*).ti.
22.	or/14-21
23.	6 not 22
24.	Limit 23 to English language
25.	nuclear magnetic resonance imaging/
26.	(mri* or nmr* or magnetic resonance).ti,ab.
27.	x-ray computed tomography/
28.	*computer assisted tomography/
29.	((radiograph* or compute*) adj3 tomograph*).ti,ab.
30.	(echogra* or echotomogra* or sonograph* or ultrasound or ultrasonogra* or x-ray).ti,ab.
31.	(ultrasonic adj2 (tomogra* or imag* or diagnos*)).ti,ab.
32.	((CT or CAT) adj2 (imag* or scan* or diagnos*)).ti,ab.
33.	or/25-32
34.	24 and 33
35.	random*.ti,ab.
36.	factorial*.ti,ab.
37.	(crossover* or cross over*).ti,ab.
38.	((doubl* or singl*) adj blind*).ti,ab.
39.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
40.	crossover procedure/
41.	single blind procedure/
42.	randomized controlled trial/
43.	double blind procedure/
44.	or/35-43

45.	systematic review/
46.	meta-analysis/
47.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
48.	((systematic* or evidence*) adj3 (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 psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
53.	cochrane.jw.
54.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
55.	or/45-54
56.	Clinical study/
57.	Observational study/
58.	family study/
59.	longitudinal study/
60.	retrospective study/
61.	prospective study/
62.	cohort analysis/
63.	follow-up/
64.	cohort*.ti,ab.
65.	63 and 64
66.	(cohort adj (study or studies or analys* or data)).ti,ab.
67.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
68.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
69.	(before adj2 after adj2 (study or studies or data)).ti,ab.
70.	exp case control study/
71.	case control*.ti,ab.
72.	cross-sectional study/
73.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
74.	or/56-62,65-73
75.	34 and (44 or 55 or 74)

Cochrane Library (Wiley) search terms

#1.	MeSH descriptor: [Osteoarthritis] explode all trees
#2.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*):ti,ab
#3.	(degenerative near/2 arthritis):ti,ab
#4.	coxarthrosis:ti,ab
#5.	gonarthrosis:ti,ab
#6.	(or #1-#5)
#7.	MeSH descriptor: [Magnetic Resonance Imaging] explode all trees
#8.	(mri* or nmr* or magnetic resonance):ti,ab
#9.	MeSH descriptor: [Tomography, X-Ray Computed] explode all trees

#10.	MeSH descriptor: [Tomography, X-Ray] explode all trees
#11.	((radiograph* or compute*) near/3 tomograph*):ti,ab
#12.	(echogra* or echotomogra* or sonograph* or ultrasound or ultrasonogra* or x-ray):ti,ab
#13.	(ultrasonic near/2 (tomogra* or imag* or diagnos*)):ti,ab
#14.	((CT or CAT) near/2 (imag* or scan* or diagnos*)):ti,ab
#15.	(or #7:#14)
#16.	#6 and #15

A.2 Clinical literature search strategy

A.2.1 Patient Information

Searches were constructed using an Osteoarthritis population combined with search filters

Table 2: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 17 November 2021	Qualitative studies
		Exclusions (animals studies, letters, comments)
Embase (OVID)	1974 – 17 November 2021	Qualitative studies
		Exclusions (animals studies, letters, comments)
CINAHL, Current Nursing and Allied Health Literature (EBSCO)	Inception – 17 November 2021	Qualitative studies
PsycINFO (ProQuest)	Inception – 17 November 2021	Qualitative studies

Medline (Ovid) search terms

71.	exp osteoarthritis/
72.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
73.	(degenerative adj2 arthritis).ti,ab.
74.	coxarthrosis.ti,ab.
75.	gonarthrosis.ti,ab.
76.	or/1-5
77.	letter/
78.	editorial/
79.	news/
80.	exp historical article/
81.	Anecdotes as Topic/
82.	comment/
83.	case report/
84.	(letter or comment*).ti.
85.	or/7-14
86.	randomized controlled trial/ or random*.ti,ab.
87.	15 not 16

88.	animals/ not humans/
89.	exp Animals, Laboratory/
90.	exp Animal Experimentation/
91.	exp Models, Animal/
92.	exp Rodentia/
93.	(rat or rats or mouse or mice or rodent*).ti.
94.	or/17-23
95.	6 not 24
96.	limit 25 to English language
97.	Qualitative research/ or Narration/ or exp Interviews as Topic/ or exp "Surveys and Questionnaires"/ or Health care surveys/
98.	(qualitative or interview* or focus group* or theme* or questionnaire* or survey*).ti,ab.
99.	(metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or ethno* or emic or etic or phenomenolog* or grounded theory or constant compar* or (thematic* adj3 analys*) or theoretical sampl* or purposive sampl* or hermeneutic* or heidegger* or husserl* or colaizzi* or van kaam* or van manen* or giorgi* or glaser* or strauss* or ricoeur* or spiegelberg* or merleau*).ti,ab.
100.	or/27-29
101.	26 and 30

Embase (Ovid) search terms

76.	exp osteoarthritis/
77.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
78.	(degenerative adj2 arthritis).ti,ab.
79.	coxarthrosis.ti,ab.
80.	gonarthrosis.ti,ab.
81.	or/1-5
82.	letter.pt. or letter/
83.	note.pt.
84.	editorial.pt.
85.	case report/ or case study/
86.	(letter or comment*).ti.
87.	or/7-11
88.	randomized controlled trial/ or random*.ti,ab.
89.	12 not 13
90.	animal/ not human/
91.	nonhuman/
92.	exp Animal Experiment/
93.	exp Experimental Animal/
94.	animal model/
95.	exp Rodent/
96.	(rat or rats or mouse or mice or rodent*).ti.
97.	or/14-21
98.	6 not 22
99.	limit 23 to English language

100.	health survey/ or exp questionnaire/ or exp interview/ or qualitative research/ or narrative/
101.	(qualitative or interview* or focus group* or theme* or questionnaire* or survey*).ti,ab.
102.	(metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or ethno* or emic or etic or phenomenolog* or grounded theory or constant compar* or (thematic* adj3 analys*) or theoretical sampl* or purposive sampl* or hermeneutic* or heidegger* or husserl* or colaiuzzi* or van kaam* or van manen* or giorgi* or glaser* or strauss* or rcoeur* or spiegelberg* or merleau*).ti,ab.
103.	or/25-27
104.	24 and 28

CINAHL (EBSCO) search terms

S1.	MH osteoarthritis
S2.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*)
S3.	(degenerative n2 arthritis)
S4.	coxarthrosis
S5.	gonarthrosis
S6.	S1 OR S2 OR S3 OR S4 OR S5
S7.	(MH "Qualitative Studies+")
S8.	(MH "Qualitative Validity+")
S9.	(MH "Interviews+") OR (MH "Focus Groups") OR (MH "Surveys") OR (MH "Questionnaires+")
S10.	(qualitative or interview* or focus group* or theme* or questionnaire* or survey*)
S11.	(metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or ethno* or emic or etic or phenomenolog* or grounded theory or constant compar* or (thematic* adj3 analys*) or theoretical sampl* or purposive sampl* or hermeneutic* or heidegger* or husserl* or colaiuzzi* or van kaam* or van manen* or giorgi* or glaser* or strauss* or rcoeur* or spiegelberg* or merleau*)
S12.	S7 OR S8 OR S9 OR S10 OR S11
S13.	S6 AND S12

PsycINFO (ProQuest) search terms

1.	(ti,ab(osteoarthriti* OR osteo-arthriti* OR osteoarthrotic OR osteoarthros*) OR ti,ab(degenerative NEAR/2 arthritis) OR ti,ab(coxarthrosis OR gonarthrosis)) AND ((su.exact.explode("qualitative methods") OR su.exact("narratives") OR su.exact.explode("questionnaires") OR su.exact.explode("interviews") OR su.exact.explode("health care services") OR ti,ab(qualitative OR interview* OR focus group* OR theme* OR questionnaire* OR survey*) OR ti,ab(metasynthes* OR meta-synthes* OR metasummar* OR meta-summar* OR metastud* OR meta-stud* OR metathem* OR meta-them* OR ethno* OR emic OR etic OR phenomenolog* OR grounded theory OR constant compar* OR (thematic* NEAR/3 analys*) OR theoretical-sampl* OR purposive-sampl* OR hermeneutic* OR heidegger* OR husserl* OR colaiuzzi* OR van kaam* OR van manen* OR giorgi* OR glaser* OR strauss* OR rcoeur* OR spiegelberg* OR merleau*)))
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A.3 Clinical literature search strategy

A.3.1 Exercise

Searches were constructed using an Osteoarthritis population. All results were then sifted for each question. Search filters were applied to the search where appropriate.

Table 3: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 17 November 2021	Randomised controlled trials Systematic review studies Exclusions (animals studies, letters, comments)
Embase (OVID)	1974 – 17 November 2021	Randomised controlled trials Systematic review studies Exclusions (animals studies, letters, comments)
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue 11 of 12 CENTRAL to 2021 Issue 11 of 12	None

Medline (Ovid) search terms

102.	exp osteoarthritis/
103.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*).ti,ab.
104.	(degenerative adj2 arthritis).ti,ab.
105.	coxarthrosis.ti,ab.
106.	gonarthrosis.ti,ab.
107.	or/1-5
108.	letter/
109.	editorial/
110.	news/
111.	exp historical article/
112.	Anecdotes as Topic/
113.	comment/
114.	case report/
115.	(letter or comment*).ti.
116.	or/7-14
117.	randomized controlled trial/ or random*.ti,ab.
118.	15 not 16
119.	animals/ not humans/
120.	exp Animals, Laboratory/
121.	exp Animal Experimentation/
122.	exp Models, Animal/
123.	exp Rodentia/
124.	(rat or rats or mouse or mice or rodent*).ti.

125.	or/17-23
126.	6 not 24
127.	limit 25 to English language
128.	randomized controlled trial.pt.
129.	controlled clinical trial.pt.
130.	random#ed.ti,ab.
131.	placebo.ab.
132.	randomly.ti,ab.
133.	Clinical Trials as topic.sh.
134.	trial.ti.
135.	or/27-33
136.	Meta-Analysis/
137.	exp Meta-Analysis as Topic/
138.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
139.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
140.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
141.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
142.	(search* adj4 literature).ab.
143.	(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.
144.	cochrane.jw.
145.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
146.	or/35-44
147.	26 and (34 or 45)

Embase (Ovid) search terms

105.	exp osteoarthritis/
106.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
107.	(degenerative adj2 arthritis).ti,ab.
108.	coxarthrosis.ti,ab.
109.	gonarthrosis.ti,ab.
110.	or/1-5
111.	letter.pt. or letter/
112.	note.pt.
113.	editorial.pt.
114.	case report/ or case study/
115.	(letter or comment*).ti.
116.	or/7-11
117.	randomized controlled trial/ or random*.ti,ab.
118.	12 not 13
119.	animal/ not human/
120.	nonhuman/
121.	exp Animal Experiment/
122.	exp Experimental Animal/
123.	animal model/

124.	exp Rodent/
125.	(rat or rats or mouse or mice or rodent*).ti.
126.	or/14-21
127.	6 not 22
128.	Limit 23 not English language
129.	random*.ti,ab.
130.	factorial*.ti,ab.
131.	(crossover* or cross over*).ti,ab.
132.	((doubl* or singl*) adj blind*).ti,ab.
133.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
134.	crossover procedure/
135.	single blind procedure/
136.	randomized controlled trial/
137.	double blind procedure/
138.	or/25-33
139.	systematic review/
140.	meta-analysis/
141.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
142.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
143.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
144.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
145.	(search* adj4 literature).ab.
146.	(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.
147.	cochrane.jw.
148.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
149.	or/35-44
150.	24 and (34 or 45)

Cochrane Library (Wiley) search terms

#17.	MeSH descriptor: [Osteoarthritis] explode all trees
#18.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*):ti,ab
#19.	(degenerative near/2 arthritis):ti,ab
#20.	coxarthrosis:ti,ab
#21.	gonarthrosis:ti,ab
#22.	(or #1-#5)

A.4 Clinical literature search strategy

A.4.1 Manual Therapy

Searches were constructed using an Osteoarthritis population. All results were then sifted for each question. Search filters were applied to the search where appropriate.

Table 4: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 17 November 2021	Randomised controlled trials Systematic review studies
		Exclusions (animals studies, letters, comments)
Embase (OVID)	1974 – 17 November 2021	Randomised controlled trials Systematic review studies
		Exclusions (animals studies, letters, comments)
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue 11 of 12 CENTRAL to 2021 Issue 11 of 12	None

Medline (Ovid) search terms

148.	exp osteoarthritis/
149.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
150.	(degenerative adj2 arthritis).ti,ab.
151.	coxarthrosis.ti,ab.
152.	gonarthrosis.ti,ab.
153.	or/1-5
154.	letter/
155.	editorial/
156.	news/
157.	exp historical article/
158.	Anecdotes as Topic/
159.	comment/
160.	case report/
161.	(letter or comment*).ti.
162.	or/7-14
163.	randomized controlled trial/ or random*.ti,ab.
164.	15 not 16
165.	animals/ not humans/
166.	exp Animals, Laboratory/
167.	exp Animal Experimentation/
168.	exp Models, Animal/
169.	exp Rodentia/
170.	(rat or rats or mouse or mice or rodent*).ti.
171.	or/17-23
172.	6 not 24
173.	limit 25 to English language
174.	randomized controlled trial.pt.
175.	controlled clinical trial.pt.
176.	random#ed.ti,ab.
177.	placebo.ab.
178.	randomly.ti,ab.

179.	Clinical Trials as topic.sh.
180.	trial.ti.
181.	or/27-33
182.	Meta-Analysis/
183.	exp Meta-Analysis as Topic/
184.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
185.	((systematic* or evidence*) adj3 (review* or overview*).ti,ab.
186.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
187.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
188.	(search* adj4 literature).ab.
189.	(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.
190.	cochrane.jw.
191.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
192.	or/35-44
193.	26 and (34 or 45)

Embase (Ovid) search terms

151.	exp osteoarthritis/
152.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*).ti,ab.
153.	(degenerative adj2 arthritis).ti,ab.
154.	coxarthrosis.ti,ab.
155.	gonarthrosis.ti,ab.
156.	or/1-5
157.	letter.pt. or letter/
158.	note.pt.
159.	editorial.pt.
160.	case report/ or case study/
161.	(letter or comment*).ti.
162.	or/7-11
163.	randomized controlled trial/ or random*.ti,ab.
164.	12 not 13
165.	animal/ not human/
166.	nonhuman/
167.	exp Animal Experiment/
168.	exp Experimental Animal/
169.	animal model/
170.	exp Rodent/
171.	(rat or rats or mouse or mice or rodent*).ti.
172.	or/14-21
173.	6 not 22
174.	Limit 23 not English language
175.	random*.ti,ab.
176.	factorial*.ti,ab.
177.	(crossover* or cross over*).ti,ab.

178.	((doubl* or singl*) adj blind*).ti,ab.
179.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
180.	crossover procedure/
181.	single blind procedure/
182.	randomized controlled trial/
183.	double blind procedure/
184.	or/25-33
185.	systematic review/
186.	meta-analysis/
187.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
188.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
189.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
190.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
191.	(search* adj4 literature).ab.
192.	(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.
193.	cochrane.jw.
194.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
195.	or/35-44
196.	24 and (34 or 45)

Cochrane Library (Wiley) search terms

#23.	MeSH descriptor: [Osteoarthritis] explode all trees
#24.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*):ti,ab
#25.	(degenerative near/2 arthritis):ti,ab
#26.	coxarthrosis:ti,ab
#27.	gonarthrosis:ti,ab
#28.	(or #1-#5)

A.5 Clinical literature search strategy

A.5.1 Acupuncture

Searches were constructed using an Osteoarthritis population. All results were then sifted for each question. Search filters were applied to the search where appropriate.

Table 5: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 17 November 2021	Randomised controlled trials Systematic review studies Exclusions (animals studies, letters, comments)
Embase (OVID)	1974 – 17 November 2021	Randomised controlled trials Systematic review studies

Database	Dates searched	Search filter used
		Exclusions (animals studies, letters, comments)
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue 11 of 12 CENTRAL to 2021 Issue 11 of 12	None

Medline (Ovid) search terms

194.	exp osteoarthritis/
195.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
196.	(degenerative adj2 arthritis).ti,ab.
197.	coxarthrosis.ti,ab.
198.	gonarthrosis.ti,ab.
199.	or/1-5
200.	letter/
201.	editorial/
202.	news/
203.	exp historical article/
204.	Anecdotes as Topic/
205.	comment/
206.	case report/
207.	(letter or comment*).ti.
208.	or/7-14
209.	randomized controlled trial/ or random*.ti,ab.
210.	15 not 16
211.	animals/ not humans/
212.	exp Animals, Laboratory/
213.	exp Animal Experimentation/
214.	exp Models, Animal/
215.	exp Rodentia/
216.	(rat or rats or mouse or mice or rodent*).ti.
217.	or/17-23
218.	6 not 24
219.	limit 25 to English language
220.	randomized controlled trial.pt.
221.	controlled clinical trial.pt.
222.	randomi#ed.ti,ab.
223.	placebo.ab.
224.	randomly.ti,ab.
225.	Clinical Trials as topic.sh.
226.	trial.ti.
227.	or/27-33
228.	Meta-Analysis/
229.	exp Meta-Analysis as Topic/
230.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
231.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.

232.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
233.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
234.	(search* adj4 literature).ab.
235.	(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.
236.	cochrane.jw.
237.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
238.	or/35-44
239.	26 and (34 or 45)

Embase (Ovid) search terms

197.	exp osteoarthritis/
198.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
199.	(degenerative adj2 arthritis).ti,ab.
200.	coxarthrosis.ti,ab.
201.	gonarthrosis.ti,ab.
202.	or/1-5
203.	letter.pt. or letter/
204.	note.pt.
205.	editorial.pt.
206.	case report/ or case study/
207.	(letter or comment*).ti.
208.	or/7-11
209.	randomized controlled trial/ or random*.ti,ab.
210.	12 not 13
211.	animal/ not human/
212.	nonhuman/
213.	exp Animal Experiment/
214.	exp Experimental Animal/
215.	animal model/
216.	exp Rodent/
217.	(rat or rats or mouse or mice or rodent*).ti.
218.	or/14-21
219.	6 not 22
220.	Limit 23 not English language
221.	random*.ti,ab.
222.	factorial*.ti,ab.
223.	(crossover* or cross over*).ti,ab.
224.	((doubl* or singl*) adj blind*).ti,ab.
225.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
226.	crossover procedure/
227.	single blind procedure/
228.	randomized controlled trial/
229.	double blind procedure/
230.	or/25-33

231.	systematic review/
232.	meta-analysis/
233.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
234.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
235.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
236.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
237.	(search* adj4 literature).ab.
238.	(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.
239.	cochrane.jw.
240.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
241.	or/35-44
242.	24 and (34 or 45)

Cochrane Library (Wiley) search terms

#29.	MeSH descriptor: [Osteoarthritis] explode all trees
#30.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*):ti,ab
#31.	(degenerative near/2 arthritis):ti,ab
#32.	coxarthrosis:ti,ab
#33.	gonarthrosis:ti,ab
#34.	(or #1-#5)

A.6 Clinical literature search strategy

A.6.1 Electrotherapy

Searches were constructed using an Osteoarthritis population. All results were then sifted for each question. Search filters were applied to the search where appropriate.

Table 6: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 17 November 2021	Randomised controlled trials
		Systematic review studies
Embase (OVID)	1974 – 17 November 2021	Exclusions (animals studies, letters, comments)
		Randomised controlled trials
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue 11 of 12 CENTRAL to 2021 Issue 11 of 12	Systematic review studies
		Exclusions (animals studies, letters, comments)
		None

Medline (Ovid) search terms

240.	exp osteoarthritis/
241.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*).ti,ab.
242.	(degenerative adj2 arthritis).ti,ab.
243.	coxarthrosis.ti,ab.
244.	gonarthrosis.ti,ab.
245.	or/1-5
246.	letter/
247.	editorial/
248.	news/
249.	exp historical article/
250.	Anecdotes as Topic/
251.	comment/
252.	case report/
253.	(letter or comment*).ti.
254.	or/7-14
255.	randomized controlled trial/ or random*.ti,ab.
256.	15 not 16
257.	animals/ not humans/
258.	exp Animals, Laboratory/
259.	exp Animal Experimentation/
260.	exp Models, Animal/
261.	exp Rodentia/
262.	(rat or rats or mouse or mice or rodent*).ti.
263.	or/17-23
264.	6 not 24
265.	limit 25 to English language
266.	randomized controlled trial.pt.
267.	controlled clinical trial.pt.
268.	randomi#ed.ti,ab.
269.	placebo.ab.
270.	randomly.ti,ab.
271.	Clinical Trials as topic.sh.
272.	trial.ti.
273.	or/27-33
274.	Meta-Analysis/
275.	exp Meta-Analysis as Topic/
276.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
277.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
278.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
279.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
280.	(search* adj4 literature).ab.
281.	(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.
282.	cochrane.jw.
283.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.

284.	or/35-44
285.	26 and (34 or 45)

Embase (Ovid) search terms

243.	exp osteoarthritis/
244.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
245.	(degenerative adj2 arthritis).ti,ab.
246.	coxarthrosis.ti,ab.
247.	gonarthrosis.ti,ab.
248.	or/1-5
249.	letter.pt. or letter/
250.	note.pt.
251.	editorial.pt.
252.	case report/ or case study/
253.	(letter or comment*).ti.
254.	or/7-11
255.	randomized controlled trial/ or random*.ti,ab.
256.	12 not 13
257.	animal/ not human/
258.	nonhuman/
259.	exp Animal Experiment/
260.	exp Experimental Animal/
261.	animal model/
262.	exp Rodent/
263.	(rat or rats or mouse or mice or rodent*).ti.
264.	or/14-21
265.	6 not 22
266.	Limit 23 not English language
267.	random*.ti,ab.
268.	factorial*.ti,ab.
269.	(crossover* or cross over*).ti,ab.
270.	((doubl* or singl*) adj blind*).ti,ab.
271.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
272.	crossover procedure/
273.	single blind procedure/
274.	randomized controlled trial/
275.	double blind procedure/
276.	or/25-33
277.	systematic review/
278.	meta-analysis/
279.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
280.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
281.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
282.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.

283.	(search* adj4 literature).ab.
284.	(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.
285.	cochrane.jw.
286.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
287.	or/35-44
288.	24 and (34 or 45)

Cochrane Library (Wiley) search terms

#35.	MeSH descriptor: [Osteoarthritis] explode all trees
#36.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*):ti,ab
#37.	(degenerative near/2 arthritis):ti,ab
#38.	coxarthrosis:ti,ab
#39.	gonarthrosis:ti,ab
#40.	(or #1-#5)

A.7 Clinical literature search strategy

A.7.1 Devices

Searches were constructed using an Osteoarthritis population. All results were then sifted for each question. Search filters were applied to the search where appropriate.

Table 7: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 17 November 2021	Randomised controlled trials Systematic review studies Exclusions (animals studies, letters, comments)
Embase (OVID)	1974 – 17 November 2021	Randomised controlled trials Systematic review studies Exclusions (animals studies, letters, comments)
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue 11 of 12 CENTRAL to 2021 Issue 11 of 12	None

Medline (Ovid) search terms

286.	exp osteoarthritis/
287.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*).ti,ab.
288.	(degenerative adj2 arthritis).ti,ab.
289.	coxarthrosis.ti,ab.
290.	gonarthrosis.ti,ab.
291.	or/1-5

292.	letter/
293.	editorial/
294.	news/
295.	exp historical article/
296.	Anecdotes as Topic/
297.	comment/
298.	case report/
299.	(letter or comment*).ti.
300.	or/7-14
301.	randomized controlled trial/ or random*.ti,ab.
302.	15 not 16
303.	animals/ not humans/
304.	exp Animals, Laboratory/
305.	exp Animal Experimentation/
306.	exp Models, Animal/
307.	exp Rodentia/
308.	(rat or rats or mouse or mice or rodent*).ti.
309.	or/17-23
310.	6 not 24
311.	limit 25 to English language
312.	randomized controlled trial.pt.
313.	controlled clinical trial.pt.
314.	randomi#ed.ti,ab.
315.	placebo.ab.
316.	randomly.ti,ab.
317.	Clinical Trials as topic.sh.
318.	trial.ti.
319.	or/27-33
320.	Meta-Analysis/
321.	exp Meta-Analysis as Topic/
322.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
323.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
324.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
325.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
326.	(search* adj4 literature).ab.
327.	(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.
328.	cochrane.jw.
329.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
330.	or/35-44
331.	26 and (34 or 45)

Embase (Ovid) search terms

289.	exp osteoarthritis/
290.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
291.	(degenerative adj2 arthritis).ti,ab.

292.	coxarthrosis.ti,ab.
293.	gonarthrosis.ti,ab.
294.	or/1-5
295.	letter.pt. or letter/
296.	note.pt.
297.	editorial.pt.
298.	case report/ or case study/
299.	(letter or comment*).ti.
300.	or/7-11
301.	randomized controlled trial/ or random*.ti,ab.
302.	12 not 13
303.	animal/ not human/
304.	nonhuman/
305.	exp Animal Experiment/
306.	exp Experimental Animal/
307.	animal model/
308.	exp Rodent/
309.	(rat or rats or mouse or mice or rodent*).ti.
310.	or/14-21
311.	6 not 22
312.	Limit 23 not English language
313.	random*.ti,ab.
314.	factorial*.ti,ab.
315.	(crossover* or cross over*).ti,ab.
316.	((doubl* or singl*) adj blind*).ti,ab.
317.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
318.	crossover procedure/
319.	single blind procedure/
320.	randomized controlled trial/
321.	double blind procedure/
322.	or/25-33
323.	systematic review/
324.	meta-analysis/
325.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
326.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
327.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
328.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
329.	(search* adj4 literature).ab.
330.	(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.
331.	cochrane.jw.
332.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
333.	or/35-44
334.	24 and (34 or 45)

Cochrane Library (Wiley) search terms

#41.	MeSH descriptor: [Osteoarthritis] explode all trees
#42.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*):ti,ab
#43.	(degenerative near/2 arthritis):ti,ab
#44.	coxarthrosis:ti,ab
#45.	gonarthrosis:ti,ab
#46.	(or #1-#5)

A.8 Clinical literature search strategy

A.8.1 Oral, topical and pharmacological

Searches were constructed using an Osteoarthritis population. All results were then sifted for each question. Search filters were applied to the search where appropriate.

Table 8: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 17 November 2021	Randomised controlled trials Systematic review studies Exclusions (animals studies, letters, comments)
Embase (OVID)	1974 – 17 November 2021	Randomised controlled trials Systematic review studies Exclusions (animals studies, letters, comments)
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue 11 of 12 CENTRAL to 2021 Issue 11 of 12	None

Medline (Ovid) search terms

332.	exp osteoarthritis/
333.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
334.	(degenerative adj2 arthritis).ti,ab.
335.	coxarthrosis.ti,ab.
336.	gonarthrosis.ti,ab.
337.	or/1-5
338.	letter/
339.	editorial/
340.	news/
341.	exp historical article/
342.	Anecdotes as Topic/
343.	comment/
344.	case report/
345.	(letter or comment*).ti.
346.	or/7-14

347.	randomized controlled trial/ or random*.ti,ab.
348.	15 not 16
349.	animals/ not humans/
350.	exp Animals, Laboratory/
351.	exp Animal Experimentation/
352.	exp Models, Animal/
353.	exp Rodentia/
354.	(rat or rats or mouse or mice or rodent*).ti.
355.	or/17-23
356.	6 not 24
357.	limit 25 to English language
358.	randomized controlled trial.pt.
359.	controlled clinical trial.pt.
360.	randomi#ed.ti,ab.
361.	placebo.ab.
362.	randomly.ti,ab.
363.	Clinical Trials as topic.sh.
364.	trial.ti.
365.	or/27-33
366.	Meta-Analysis/
367.	exp Meta-Analysis as Topic/
368.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
369.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
370.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
371.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
372.	(search* adj4 literature).ab.
373.	(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.
374.	cochrane.jw.
375.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
376.	or/35-44
377.	26 and (34 or 45)

Embase (Ovid) search terms

335.	exp osteoarthritis/
336.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*).ti,ab.
337.	(degenerative adj2 arthritis).ti,ab.
338.	coxarthrosis.ti,ab.
339.	gonarthrosis.ti,ab.
340.	or/1-5
341.	letter.pt. or letter/
342.	note.pt.
343.	editorial.pt.
344.	case report/ or case study/
345.	(letter or comment*).ti.
346.	or/7-11

347.	randomized controlled trial/ or random*.ti,ab.
348.	12 not 13
349.	animal/ not human/
350.	nonhuman/
351.	exp Animal Experiment/
352.	exp Experimental Animal/
353.	animal model/
354.	exp Rodent/
355.	(rat or rats or mouse or mice or rodent*).ti.
356.	or/14-21
357.	6 not 22
358.	Limit 23 not English language
359.	random*.ti,ab.
360.	factorial*.ti,ab.
361.	(crossover* or cross over*).ti,ab.
362.	((doubl* or singl*) adj blind*).ti,ab.
363.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
364.	crossover procedure/
365.	single blind procedure/
366.	randomized controlled trial/
367.	double blind procedure/
368.	or/25-33
369.	systematic review/
370.	meta-analysis/
371.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
372.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
373.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
374.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
375.	(search* adj4 literature).ab.
376.	(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.
377.	cochrane.jw.
378.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
379.	or/35-44
380.	24 and (34 or 45)

Cochrane Library (Wiley) search terms

#47.	MeSH descriptor: [Osteoarthritis] explode all trees
#48.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*):ti,ab
#49.	(degenerative near/2 arthritis):ti,ab
#50.	coxarthrosis:ti,ab
#51.	gonarthrosis:ti,ab
#52.	(or #1-#5)

A.9 Clinical literature search strategy

A.9.1 Intraarticular pharmacological

Searches were constructed using an Osteoarthritis population. All results were then sifted for each question. Search filters were applied to the search where appropriate.

Table 9: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 17 November 2021	Randomised controlled trials Systematic review studies Exclusions (animals studies, letters, comments)
Embase (OVID)	1974 – 17 November 2021	Randomised controlled trials Systematic review studies Exclusions (animals studies, letters, comments)
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue 11 of 12 CENTRAL to 2021 Issue 11 of 12	None

Medline (Ovid) search terms

378.	exp osteoarthritis/
379.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*).ti,ab.
380.	(degenerative adj2 arthritis).ti,ab.
381.	coxarthrosis.ti,ab.
382.	gonarthrosis.ti,ab.
383.	or/1-5
384.	letter/
385.	editorial/
386.	news/
387.	exp historical article/
388.	Anecdotes as Topic/
389.	comment/
390.	case report/
391.	(letter or comment*).ti.
392.	or/7-14
393.	randomized controlled trial/ or random*.ti,ab.
394.	15 not 16
395.	animals/ not humans/
396.	exp Animals, Laboratory/
397.	exp Animal Experimentation/
398.	exp Models, Animal/
399.	exp Rodentia/
400.	(rat or rats or mouse or mice or rodent*).ti.

401.	or/17-23
402.	6 not 24
403.	limit 25 to English language
404.	randomized controlled trial.pt.
405.	controlled clinical trial.pt.
406.	random#ed.ti,ab.
407.	placebo.ab.
408.	randomly.ti,ab.
409.	Clinical Trials as topic.sh.
410.	trial.ti.
411.	or/27-33
412.	Meta-Analysis/
413.	exp Meta-Analysis as Topic/
414.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
415.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
416.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
417.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
418.	(search* adj4 literature).ab.
419.	(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.
420.	cochrane.jw.
421.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
422.	or/35-44
423.	26 and (34 or 45)

Embase (Ovid) search terms

381.	exp osteoarthritis/
382.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
383.	(degenerative adj2 arthritis).ti,ab.
384.	coxarthrosis.ti,ab.
385.	gonarthrosis.ti,ab.
386.	or/1-5
387.	letter.pt. or letter/
388.	note.pt.
389.	editorial.pt.
390.	case report/ or case study/
391.	(letter or comment*).ti.
392.	or/7-11
393.	randomized controlled trial/ or random*.ti,ab.
394.	12 not 13
395.	animal/ not human/
396.	nonhuman/
397.	exp Animal Experiment/
398.	exp Experimental Animal/
399.	animal model/

400.	exp Rodent/
401.	(rat or rats or mouse or mice or rodent*).ti.
402.	or/14-21
403.	6 not 22
404.	Limit 23 not English language
405.	random*.ti,ab.
406.	factorial*.ti,ab.
407.	(crossover* or cross over*).ti,ab.
408.	((doubl* or singl*) adj blind*).ti,ab.
409.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
410.	crossover procedure/
411.	single blind procedure/
412.	randomized controlled trial/
413.	double blind procedure/
414.	or/25-33
415.	systematic review/
416.	meta-analysis/
417.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
418.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
419.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
420.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
421.	(search* adj4 literature).ab.
422.	(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.
423.	cochrane.jw.
424.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
425.	or/35-44
426.	24 and (34 or 45)

Cochrane Library (Wiley) search terms

#53.	MeSH descriptor: [Osteoarthritis] explode all trees
#54.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*):ti,ab
#55.	(degenerative near/2 arthritis):ti,ab
#56.	coxarthrosis:ti,ab
#57.	gonarthrosis:ti,ab
#58.	(or #1-#5)

A.10 Clinical literature search strategy

A.10.1 Treatment packages

Searches were constructed using an Osteoarthritis population. All results were then sifted for each question. Search filters were applied to the search where appropriate.

Table 10: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 17 November 2021	Randomised controlled trials Systematic review studies Exclusions (animals studies, letters, comments)
Embase (OVID)	1974 – 17 November 2021	Randomised controlled trials Systematic review studies Exclusions (animals studies, letters, comments)
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue 11 of 12 CENTRAL to 2021 Issue 11 of 12	None

Medline (Ovid) search terms

424.	exp osteoarthritis/
425.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
426.	(degenerative adj2 arthritis).ti,ab.
427.	coxarthrosis.ti,ab.
428.	gonarthrosis.ti,ab.
429.	or/1-5
430.	letter/
431.	editorial/
432.	news/
433.	exp historical article/
434.	Anecdotes as Topic/
435.	comment/
436.	case report/
437.	(letter or comment*).ti.
438.	or/7-14
439.	randomized controlled trial/ or random*.ti,ab.
440.	15 not 16
441.	animals/ not humans/
442.	exp Animals, Laboratory/
443.	exp Animal Experimentation/
444.	exp Models, Animal/
445.	exp Rodentia/
446.	(rat or rats or mouse or mice or rodent*).ti.
447.	or/17-23
448.	6 not 24
449.	limit 25 to English language
450.	randomized controlled trial.pt.
451.	controlled clinical trial.pt.
452.	randomi#ed.ti,ab.
453.	placebo.ab.

454.	randomly.ti,ab.
455.	Clinical Trials as topic.sh.
456.	trial.ti.
457.	or/27-33
458.	Meta-Analysis/
459.	exp Meta-Analysis as Topic/
460.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
461.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
462.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
463.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
464.	(search* adj4 literature).ab.
465.	(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.
466.	cochrane.jw.
467.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
468.	or/35-44
469.	26 and (34 or 45)

Embase (Ovid) search terms

427.	exp osteoarthritis/
428.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
429.	(degenerative adj2 arthritis).ti,ab.
430.	coxarthrosis.ti,ab.
431.	gonarthrosis.ti,ab.
432.	or/1-5
433.	letter.pt. or letter/
434.	note.pt.
435.	editorial.pt.
436.	case report/ or case study/
437.	(letter or comment*).ti.
438.	or/7-11
439.	randomized controlled trial/ or random*.ti,ab.
440.	12 not 13
441.	animal/ not human/
442.	nonhuman/
443.	exp Animal Experiment/
444.	exp Experimental Animal/
445.	animal model/
446.	exp Rodent/
447.	(rat or rats or mouse or mice or rodent*).ti.
448.	or/14-21
449.	6 not 22
450.	Limit 23 not English language
451.	random*.ti,ab.
452.	factorial*.ti,ab.

453.	(crossover* or cross over*).ti,ab.
454.	((doubl* or singl*) adj blind*).ti,ab.
455.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
456.	crossover procedure/
457.	single blind procedure/
458.	randomized controlled trial/
459.	double blind procedure/
460.	or/25-33
461.	systematic review/
462.	meta-analysis/
463.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
464.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
465.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
466.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
467.	(search* adj4 literature).ab.
468.	(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.
469.	cochrane.jw.
470.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
471.	or/35-44
472.	24 and (34 or 45)

Cochrane Library (Wiley) search terms

#59.	MeSH descriptor: [Osteoarthritis] explode all trees
#60.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*):ti,ab
#61.	(degenerative near/2 arthritis):ti,ab
#62.	coxarthrosis:ti,ab
#63.	gonarthrosis:ti,ab
#64.	(or #1-#5)

A.11 Clinical literature search strategy

A.11.1 Imaging for management

Searches were constructed using an Osteoarthritis population. All results were then sifted for each question. Search filters were applied to the search where appropriate.

Table 11: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 17 November 2021	Randomised controlled trials Systematic review studies Exclusions (animals studies, letters, comments)
Embase (OVID)	1974 – 17 November 2021	Randomised controlled trials Systematic review studies

Database	Dates searched	Search filter used
		Exclusions (animals studies, letters, comments)
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue 11 of 12 CENTRAL to 2021 Issue 11 of 12	None

Medline (Ovid) search terms

470.	exp osteoarthritis/
471.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
472.	(degenerative adj2 arthritis).ti,ab.
473.	coxarthrosis.ti,ab.
474.	gonarthrosis.ti,ab.
475.	or/1-5
476.	letter/
477.	editorial/
478.	news/
479.	exp historical article/
480.	Anecdotes as Topic/
481.	comment/
482.	case report/
483.	(letter or comment*).ti.
484.	or/7-14
485.	randomized controlled trial/ or random*.ti,ab.
486.	15 not 16
487.	animals/ not humans/
488.	exp Animals, Laboratory/
489.	exp Animal Experimentation/
490.	exp Models, Animal/
491.	exp Rodentia/
492.	(rat or rats or mouse or mice or rodent*).ti.
493.	or/17-23
494.	6 not 24
495.	limit 25 to English language
496.	randomized controlled trial.pt.
497.	controlled clinical trial.pt.
498.	randomi#ed.ti,ab.
499.	placebo.ab.
500.	randomly.ti,ab.
501.	Clinical Trials as topic.sh.
502.	trial.ti.
503.	or/27-33
504.	Meta-Analysis/
505.	exp Meta-Analysis as Topic/
506.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
507.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.

508.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
509.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
510.	(search* adj4 literature).ab.
511.	(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.
512.	cochrane.jw.
513.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
514.	or/35-44
515.	26 and (34 or 45)

Embase (Ovid) search terms

473.	exp osteoarthritis/
474.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
475.	(degenerative adj2 arthritis).ti,ab.
476.	coxarthrosis.ti,ab.
477.	gonarthrosis.ti,ab.
478.	or/1-5
479.	letter.pt. or letter/
480.	note.pt.
481.	editorial.pt.
482.	case report/ or case study/
483.	(letter or comment*).ti.
484.	or/7-11
485.	randomized controlled trial/ or random*.ti,ab.
486.	12 not 13
487.	animal/ not human/
488.	nonhuman/
489.	exp Animal Experiment/
490.	exp Experimental Animal/
491.	animal model/
492.	exp Rodent/
493.	(rat or rats or mouse or mice or rodent*).ti.
494.	or/14-21
495.	6 not 22
496.	Limit 23 not English language
497.	random*.ti,ab.
498.	factorial*.ti,ab.
499.	(crossover* or cross over*).ti,ab.
500.	((doubl* or singl*) adj blind*).ti,ab.
501.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
502.	crossover procedure/
503.	single blind procedure/
504.	randomized controlled trial/
505.	double blind procedure/
506.	or/25-33

507.	systematic review/
508.	meta-analysis/
509.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
510.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
511.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
512.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
513.	(search* adj4 literature).ab.
514.	(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.
515.	cochrane.jw.
516.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
517.	or/35-44
518.	24 and (34 or 45)

Cochrane Library (Wiley) search terms

#65.	MeSH descriptor: [Osteoarthritis] explode all trees
#66.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*):ti,ab
#67.	(degenerative near/2 arthritis):ti,ab
#68.	coxarthrosis:ti,ab
#69.	gonarthrosis:ti,ab
#70.	(or #1-#5)

A.12 Clinical literature search strategy

A.12.1 Arthroscopic procedures

Searches were constructed using an Osteoarthritis population. All results were then sifted for each question. Search filters were applied to the search where appropriate.

Table 12: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 17 November 2021	Randomised controlled trials Systematic review studies Exclusions (animals studies, letters, comments)
Embase (OVID)	1974 – 17 November 2021	Randomised controlled trials Systematic review studies Exclusions (animals studies, letters, comments)
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue 11 of 12 CENTRAL to 2021 Issue 11 of 12	None

Medline (Ovid) search terms

516.	exp osteoarthritis/
517.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*).ti,ab.
518.	(degenerative adj2 arthritis).ti,ab.
519.	coxarthrosis.ti,ab.
520.	gonarthrosis.ti,ab.
521.	or/1-5
522.	letter/
523.	editorial/
524.	news/
525.	exp historical article/
526.	Anecdotes as Topic/
527.	comment/
528.	case report/
529.	(letter or comment*).ti.
530.	or/7-14
531.	randomized controlled trial/ or random*.ti,ab.
532.	15 not 16
533.	animals/ not humans/
534.	exp Animals, Laboratory/
535.	exp Animal Experimentation/
536.	exp Models, Animal/
537.	exp Rodentia/
538.	(rat or rats or mouse or mice or rodent*).ti.
539.	or/17-23
540.	6 not 24
541.	limit 25 to English language
542.	randomized controlled trial.pt.
543.	controlled clinical trial.pt.
544.	randomi#ed.ti,ab.
545.	placebo.ab.
546.	randomly.ti,ab.
547.	Clinical Trials as topic.sh.
548.	trial.ti.
549.	or/27-33
550.	Meta-Analysis/
551.	exp Meta-Analysis as Topic/
552.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
553.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
554.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
555.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
556.	(search* adj4 literature).ab.
557.	(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.
558.	cochrane.jw.
559.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.

560.	or/35-44
561.	26 and (34 or 45)

Embase (Ovid) search terms

519.	exp osteoarthritis/
520.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
521.	(degenerative adj2 arthritis).ti,ab.
522.	coxarthrosis.ti,ab.
523.	gonarthrosis.ti,ab.
524.	or/1-5
525.	letter.pt. or letter/
526.	note.pt.
527.	editorial.pt.
528.	case report/ or case study/
529.	(letter or comment*).ti.
530.	or/7-11
531.	randomized controlled trial/ or random*.ti,ab.
532.	12 not 13
533.	animal/ not human/
534.	nonhuman/
535.	exp Animal Experiment/
536.	exp Experimental Animal/
537.	animal model/
538.	exp Rodent/
539.	(rat or rats or mouse or mice or rodent*).ti.
540.	or/14-21
541.	6 not 22
542.	Limit 23 not English language
543.	random*.ti,ab.
544.	factorial*.ti,ab.
545.	(crossover* or cross over*).ti,ab.
546.	((doubl* or singl*) adj blind*).ti,ab.
547.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
548.	crossover procedure/
549.	single blind procedure/
550.	randomized controlled trial/
551.	double blind procedure/
552.	or/25-33
553.	systematic review/
554.	meta-analysis/
555.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
556.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
557.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
558.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.

559.	(search* adj4 literature).ab.
560.	(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.
561.	cochrane.jw.
562.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
563.	or/35-44
564.	24 and (34 or 45)

Cochrane Library (Wiley) search terms

#71.	MeSH descriptor: [Osteoarthritis] explode all trees
#72.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*):ti,ab
#73.	(degenerative near/2 arthritis):ti,ab
#74.	coxarthrosis:ti,ab
#75.	gonarthrosis:ti,ab
#76.	(or #1-#5)

A.13 Clinical literature search strategy

A.13.1 Weight loss

Searches were constructed by combining an Osteoarthritis population with prognostic/risk factor terms.

Table 13: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 17 November 2021	Exclusions (animals studies, letters, comments)
Embase (OVID)	1974 – 17 November 2021	Exclusions (animals studies, letters, comments)

Medline (Ovid) search terms

562.	exp osteoarthritis/
563.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*).ti,ab.
564.	(degenerative adj2 arthritis).ti,ab.
565.	coxarthrosis.ti,ab.
566.	gonarthrosis.ti,ab.
567.	or/1-5
568.	letter/
569.	editorial/
570.	news/
571.	exp historical article/
572.	Anecdotes as Topic/
573.	comment/
574.	case report/
575.	(letter or comment*).ti.

576.	or/7-14
577.	randomized controlled trial/ or random*.ti,ab.
578.	15 not 16
579.	animals/ not humans/
580.	exp Animals, Laboratory/
581.	exp Animal Experimentation/
582.	exp Models, Animal/
583.	exp Rodentia/
584.	(rat or rats or mouse or mice or rodent*).ti.
585.	or/17-23
586.	6 not 24
587.	limit 25 to English language
588.	weight loss/
589.	(weight adj2 (los* or reduc* or manag*)).ti,ab.
590.	exp overweight/
591.	(obese or obesity or overweight or over weight or overeat* or "over eat*").ti,ab.
592.	or/27-30
593.	26 and 31

Embase (Ovid) search terms

565.	exp osteoarthritis/
566.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
567.	(degenerative adj2 arthritis).ti,ab.
568.	coxarthrosis.ti,ab.
569.	gonarthrosis.ti,ab.
570.	or/1-5
571.	letter.pt. or letter/
572.	note.pt.
573.	editorial.pt.
574.	case report/ or case study/
575.	(letter or comment*).ti.
576.	or/7-11
577.	randomized controlled trial/ or random*.ti,ab.
578.	12 not 13
579.	animal/ not human/
580.	nonhuman/
581.	exp Animal Experiment/
582.	exp Experimental Animal/
583.	animal model/
584.	exp Rodent/
585.	(rat or rats or mouse or mice).ti.
586.	or/14-21
587.	6 not 22
588.	Limit 23 to English language
589.	body weight loss/
590.	(weight adj2 (los* or reduc* or manag*)).ti,ab.

591.	exp obesity/
592.	(obese or obesity or overweight or over weight or overeat* or "over eat*").ti,ab.
593.	or/25-28
594.	24 and 29

A.14 Clinical literature search strategy

A.14.1 Follow up

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies for interventions as these concepts may not be well described in title, abstract or indexes and therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 14: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 17 November 2021	Randomised controlled trials Systematic review studies Observational studies Exclusions (animals studies, letters, comments)
Embase (OVID)	1974 – 17 November 2021	Randomised controlled trials Systematic review studies Observational studies Exclusions (animals studies, letters, comments)
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue 11 of 12 CENTRAL to 2021 Issue 11 of 12	None

Medline (Ovid) search terms

594.	exp osteoarthritis/
595.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*).ti,ab.
596.	(degenerative adj2 arthritis).ti,ab.
597.	coxarthrosis.ti,ab.
598.	gonarthrosis.ti,ab.
599.	or/1-5
600.	letter/
601.	editorial/
602.	news/
603.	exp historical article/
604.	Anecdotes as Topic/
605.	comment/
606.	case report/

607.	(letter or comment*).ti.
608.	or/7-14
609.	randomized controlled trial/ or random*.ti,ab.
610.	15 not 16
611.	animals/ not humans/
612.	exp Animals, Laboratory/
613.	exp Animal Experimentation/
614.	exp Models, Animal/
615.	exp Rodentia/
616.	(rat or rats or mouse or mice or rodent*).ti.
617.	or/17-23
618.	6 not 24
619.	limit 25 to English language
620.	((regular or standard* or structured) adj2 (follow*-up* or followup* or check-up* or checkup* or consultation*).ti,ab.
621.	((interval* or frequen* or week* or month* or year* or annual* or time* or timing*) adj2 (follow*-up* or followup* or check-up* or checkup* or consultation* or review* or appointment*).ti,ab.
622.	((review* or appointment* or consultation*) adj2 (follow*-up* or followup* or checkup* or check*-up*).ti,ab.
623.	or/27-29
624.	26 and 30
625.	randomized controlled trial.pt.
626.	controlled clinical trial.pt.
627.	randomi#ed.ti,ab.
628.	placebo.ab.
629.	randomly.ti,ab.
630.	Clinical Trials as topic.sh.
631.	trial.ti.
632.	or/32-38
633.	Meta-Analysis/
634.	exp Meta-Analysis as Topic/
635.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
636.	((systematic* or evidence*) adj3 (review* or overview*).ti,ab.
637.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
638.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
639.	(search* adj4 literature).ab.
640.	(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.
641.	cochrane.jw.
642.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
643.	or/40-49
644.	Epidemiologic studies/
645.	Observational study/
646.	exp Cohort studies/

647.	(cohort adj (study or studies or analys* or data)).ti,ab.
648.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
649.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
650.	Controlled Before-After Studies/
651.	Historically Controlled Study/
652.	Interrupted Time Series Analysis/
653.	(before adj2 after adj2 (study or studies or data)).ti,ab.
654.	exp case control studies/
655.	case control*.ti,ab.
656.	Cross-sectional studies/
657.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
658.	or/51-64
659.	31 and (39 or 50 or 65)

Embase (Ovid) search terms

595.	exp osteoarthritis/
596.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
597.	(degenerative adj2 arthritis).ti,ab.
598.	coxarthrosis.ti,ab.
599.	gonarthrosis.ti,ab.
600.	or/1-5
601.	letter.pt. or letter/
602.	note.pt.
603.	editorial.pt.
604.	case report/ or case study/
605.	(letter or comment*).ti.
606.	or/7-11
607.	randomized controlled trial/ or random*.ti,ab.
608.	12 not 13
609.	animal/ not human/
610.	nonhuman/
611.	exp Animal Experiment/
612.	exp Experimental Animal/
613.	animal model/
614.	exp Rodent/
615.	(rat or rats or mouse or mice or rodent*).ti.
616.	or/14-21
617.	6 not 22
618.	Limit 23 to English language
619.	((regular or standard* or structured) adj2 (follow*-up* or followup* or check-up* or checkup* or consultation*).ti,ab.
620.	((interval* or frequen* or week* or month* or year* or annual* or time* or timing*) adj2 (follow*-up* or followup* or check-up* or checkup* or consultation* or review* or appointment*).ti,ab.

621.	((review* or appointment* or consultation*) adj2 (follow*-up* or followup* or checkup* or check-up*).ti,ab.
622.	or/25-27
623.	24 and 28
624.	random*.ti,ab.
625.	factorial*.ti,ab.
626.	(crossover* or cross over*).ti,ab.
627.	((doubl* or singl*) adj blind*).ti,ab.
628.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
629.	crossover procedure/
630.	single blind procedure/
631.	randomized controlled trial/
632.	double blind procedure/
633.	or/30-38
634.	systematic review/
635.	meta-analysis/
636.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
637.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
638.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
639.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
640.	(search* adj4 literature).ab.
641.	(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.
642.	cochrane.jw.
643.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
644.	or/40-49
645.	Clinical study/
646.	Observational study/
647.	family study/
648.	longitudinal study/
649.	retrospective study/
650.	prospective study/
651.	cohort analysis/
652.	follow-up/
653.	cohort*.ti,ab.
654.	58 and 59
655.	(cohort adj (study or studies or analys* or data)).ti,ab.
656.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
657.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
658.	(before adj2 after adj2 (study or studies or data)).ti,ab.
659.	exp case control study/
660.	case control*.ti,ab.
661.	cross-sectional study/

662.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
663.	or/51-57,60-68
664.	29 and (39 or 50 or 69)

Cochrane Library (Wiley) search terms

#77.	MeSH descriptor: [Osteoarthritis] explode all trees
#78.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*):ti,ab
#79.	(degenerative near/2 arthritis):ti,ab
#80.	coxarthrosis:ti,ab
#81.	gonarthrosis:ti,ab
#82.	(or #1-#5)
#83.	((regular or standard* or structured) near/2 (follow* up* or followup* or check up* or checkup* or consultation*)):ti,ab
#84.	((interval* or frequen* or week* or month* or year* or annual* or time* or timing*) near/2 (follow* up* or followup* or check up* or checkup* or consultation* or review* or appointment*)):ti,ab
#85.	((review* or appointment* or consultation*) near/2 (follow* up* or followup* or checkup* or check up*)):ti,ab
#86.	(or #7-#9)
#87.	#6 and #10

A.15 Clinical literature search strategy

A.15.1 Referral to joint replacement surgery

Searches were constructed by combining an Osteoarthritis population with prognostic/risk factor terms and search filters.

Table 15: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 17 November 2021	Observational studies Prognostic studies Exclusions (animals studies, letters, comments)
Embase (OVID)	1974 – 17 November 2021	Observational studies Prognostic studies Exclusions (animals studies, letters, comments)

Medline (Ovid) search terms

660.	exp osteoarthritis/
661.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*).ti,ab.
662.	(degenerative adj2 arthritis).ti,ab.
663.	coxarthrosis.ti,ab.
664.	gonarthrosis.ti,ab.
665.	or/1-5

666.	letter/
667.	editorial/
668.	news/
669.	exp historical article/
670.	Anecdotes as Topic/
671.	comment/
672.	case report/
673.	(letter or comment*).ti.
674.	or/7-14
675.	randomized controlled trial/ or random*.ti,ab.
676.	15 not 16
677.	animals/ not humans/
678.	exp Animals, Laboratory/
679.	exp Animal Experimentation/
680.	exp Models, Animal/
681.	exp Rodentia/
682.	(rat or rats or mouse or mice or rodent*).ti.
683.	or/17-23
684.	6 not 24
685.	limit 25 to English language
686.	predict.ti.
687.	(validat* or rule*).ti,ab.
688.	(predict* and (outcome* or risk* or model*)).ti,ab.
689.	((history or variable* or criteria or scor* or characteristic* or finding* or factor*) and (predict* or model* or decision* or identif* or prognos*)).ti,ab.
690.	decision*.ti,ab. and Logistic models/
691.	(decision* and (model* or clinical*)).ti,ab.
692.	(prognostic and (history or variable* or criteria or scor* or characteristic* or finding* or factor* or model*)).ti,ab.
693.	(stratification or discrimination or discriminate or c statistic or "area under the curve" or AUC or calibration or indices or algorithm or multivariable).ti,ab.
694.	ROC curve/
695.	or/27-35
696.	Epidemiologic studies/
697.	Observational study/
698.	exp Cohort studies/
699.	(cohort adj (study or studies or analys* or data)).ti,ab.
700.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
701.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
702.	Controlled Before-After Studies/
703.	Historically Controlled Study/
704.	Interrupted Time Series Analysis/
705.	(before adj2 after adj2 (study or studies or data)).ti,ab.
706.	exp case control studies/
707.	case control*.ti,ab.

708.	Cross-sectional studies/
709.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
710.	or/37-50
711.	((hip* or knee* or shoulder* or joint*) adj (replace* or arthroplast* or prosthe* or endoprosthe* or implant* or artifical)).ti,ab.
712.	exp *arthroplasty, replacement, hip/ or exp *arthroplasty, replacement, knee/ or exp *arthroplasty, replacement, shoulder/
713.	52 or 53
714.	26 and 54
715.	55 and (36 or 51)
716.	exp "referral and consultation"/
717.	(assessment* or evaluation* or decision* or criteria*).ti,ab.
718.	(refer or referr* or consult* or progress* or recommend*).ti,ab.
719.	or/57-59
720.	56 and 60

Embase (Ovid) search terms

665.	exp osteoarthritis/
666.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
667.	(degenerative adj2 arthritis).ti,ab.
668.	coxarthrosis.ti,ab.
669.	gonarthrosis.ti,ab.
670.	or/1-5
671.	letter.pt. or letter/
672.	note.pt.
673.	editorial.pt.
674.	(conference abstract or conference paper).pt.
675.	case report/ or case study/
676.	(letter or comment*).ti.
677.	or/7-12
678.	randomized controlled trial/ or random*.ti,ab.
679.	13 not 14
680.	animal/ not human/
681.	nonhuman/
682.	exp Animal Experiment/
683.	exp Experimental Animal/
684.	animal model/
685.	exp Rodent/
686.	(rat or rats or mouse or mice).ti.
687.	or/15-22
688.	6 not 23
689.	limit 24 to English language
690.	predict.ti.
691.	(validat* or rule*).ti,ab.
692.	(predict* and (outcome* or risk* or model*)).ti,ab.

693.	((history or variable* or criteria or scor* or characteristic* or finding* or factor*) and (predict* or model* or decision* or identif* or prognos*)).ti,ab.
694.	decision*.ti,ab. and Statistical model/
695.	(decision* and (model* or clinical*)).ti,ab.
696.	(prognostic and (history or variable* or criteria or scor* or characteristic* or finding* or factor* or model*)).ti,ab.
697.	(stratification or discrimination or discriminate or c statistic or "area under the curve" or AUC or calibration or indices or algorithm or multivariable).ti,ab.
698.	Receiver operating characteristic/
699.	or/26-34
700.	Clinical study/
701.	Observational study/
702.	family study/
703.	longitudinal study/
704.	retrospective study/
705.	prospective study/
706.	cohort analysis/
707.	follow-up/
708.	cohort*.ti,ab.
709.	43 and 44
710.	(cohort adj (study or studies or analys* or data)).ti,ab.
711.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
712.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
713.	(before adj2 after adj2 (study or studies or data)).ti,ab.
714.	exp case control study/
715.	case control*.ti,ab.
716.	cross-sectional study/
717.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
718.	or/36-42,45-53
719.	((hip* or knee* or shoulder* or joint*) adj (replace* or arthroplast* or prosthe* or endoprosthe* or implant* or artifical)).ti,ab.
720.	exp *hip arthroplasty/ or exp *knee arthroplasty/ or exp *shoulder arthroplasty/
721.	55 or 56
722.	25 and 57
723.	58 and (35 or 54)
724.	exp patient referral/
725.	(assessment* or evaluation* or decision* or criteria*).ti,ab.
726.	(refer or referr* or consult* or progress* or recommend*).ti,ab.
727.	or/60-62
728.	59 and 63

A.16 Clinical literature search strategy

A.16.1 Preoperative patient factors

Searches were constructed by combining an Osteoarthritis population with prognostic/risk factor terms and search filters

Table 16: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 17 November 2021	Observational studies Prognostic studies Exclusions (animals studies, letters, comments)
Embase (OVID)	1974 – 17 November 2021	Observational studies Prognostic studies Exclusions (animals studies, letters, comments)

Medline (Ovid) search terms

721.	exp osteoarthritis/
722.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*).ti,ab.
723.	(degenerative adj2 arthritis).ti,ab.
724.	coxarthrosis.ti,ab.
725.	gonarthrosis.ti,ab.
726.	or/1-5
727.	letter/
728.	editorial/
729.	news/
730.	exp historical article/
731.	Anecdotes as Topic/
732.	comment/
733.	case report/
734.	(letter or comment*).ti.
735.	or/7-14
736.	randomized controlled trial/ or random*.ti,ab.
737.	15 not 16
738.	animals/ not humans/
739.	exp Animals, Laboratory/
740.	exp Animal Experimentation/
741.	exp Models, Animal/
742.	exp Rodentia/
743.	(rat or rats or mouse or mice or rodent*).ti.
744.	or/17-23
745.	6 not 24

746.	limit 25 to English language
747.	predict.ti.
748.	(validat* or rule*).ti,ab.
749.	(predict* and (outcome* or risk* or model*)).ti,ab.
750.	((history or variable* or criteria or scor* or characteristic* or finding* or factor*) and (predict* or model* or decision* or identif* or prognos*).ti,ab.
751.	decision*.ti,ab. and Logistic models/
752.	(decision* and (model* or clinical*)).ti,ab.
753.	(prognostic and (history or variable* or criteria or scor* or characteristic* or finding* or factor* or model*).ti,ab.
754.	(stratification or discrimination or discriminate or c statistic or "area under the curve" or AUC or calibration or indices or algorithm or multivariable).ti,ab.
755.	ROC curve/
756.	or/27-35
757.	Epidemiologic studies/
758.	Observational study/
759.	exp Cohort studies/
760.	(cohort adj (study or studies or analys* or data)).ti,ab.
761.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
762.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
763.	Controlled Before-After Studies/
764.	Historically Controlled Study/
765.	Interrupted Time Series Analysis/
766.	(before adj2 after adj2 (study or studies or data)).ti,ab.
767.	exp case control studies/
768.	case control*.ti,ab.
769.	Cross-sectional studies/
770.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
771.	or/37-50
772.	((hip* or knee* or shoulder* or joint*) adj (replace* or arthroplast* or prosthe* or endoprosthe* or implant* or artifical)).ti,ab.
773.	exp *arthroplasty, replacement, hip/ or exp *arthroplasty, replacement, knee/ or exp *arthroplasty, replacement, shoulder/
774.	52 or 53
775.	26 and 54
776.	55 and (36 or 51)
777.	exp overweight/ or *body weight/
778.	(obese or obesity or obeseness or overweight or over weight).ti,ab.
779.	Thinness/
780.	(slim or slender or leanness or lean or thin or thinness or underweight or under weight).ti,ab.
781.	body mass index/
782.	BMI.ti,ab.
783.	(body adj (fat or composition or mass)).ti,ab.
784.	((body or normal or healthy or ideal) adj weight).ti,ab.

785.	or/57-64
786.	56 and 65

Embase (Ovid) search terms

729.	exp osteoarthritis/
730.	(osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*).ti,ab.
731.	(degenerative adj2 arthritis).ti,ab.
732.	coxarthrosis.ti,ab.
733.	gonarthrosis.ti,ab.
734.	or/1-5
735.	letter.pt. or letter/
736.	note.pt.
737.	editorial.pt.
738.	(conference abstract or conference paper).pt.
739.	case report/ or case study/
740.	(letter or comment*).ti.
741.	or/7-12
742.	randomized controlled trial/ or random*.ti,ab.
743.	13 not 14
744.	animal/ not human/
745.	nonhuman/
746.	exp Animal Experiment/
747.	exp Experimental Animal/
748.	animal model/
749.	exp Rodent/
750.	(rat or rats or mouse or mice or rodent*).ti.
751.	or/15-22
752.	6 not 23
753.	limit 24 to English language
754.	predict.ti.
755.	(validat* or rule*).ti,ab.
756.	(predict* and (outcome* or risk* or model*)).ti,ab.
757.	((history or variable* or criteria or scor* or characteristic* or finding* or factor*) and (predict* or model* or decision* or identif* or prognos*)).ti,ab.
758.	decision*.ti,ab. and Statistical model/
759.	(decision* and (model* or clinical*)).ti,ab.
760.	(prognostic and (history or variable* or criteria or scor* or characteristic* or finding* or factor* or model*)).ti,ab.
761.	(stratification or discrimination or discriminate or c statistic or "area under the curve" or AUC or calibration or indices or algorithm or multivariable).ti,ab.
762.	Receiver operating characteristic/
763.	or/26-34
764.	Clinical study/
765.	Observational study/
766.	family study/
767.	longitudinal study/

768.	retrospective study/
769.	prospective study/
770.	cohort analysis/
771.	follow-up/
772.	cohort*.ti,ab.
773.	43 and 44
774.	(cohort adj (study or studies or analys* or data)).ti,ab.
775.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
776.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
777.	(before adj2 after adj2 (study or studies or data)).ti,ab.
778.	exp case control study/
779.	case control*.ti,ab.
780.	cross-sectional study/
781.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
782.	or/36-42,45-53
783.	((hip* or knee* or shoulder* or joint*) adj (replace* or arthroplast* or prosthe* or endoprosthe* or implant* or artifical)).ti,ab.
784.	exp *hip arthroplasty/ or exp *knee arthroplasty/ or exp *shoulder arthroplasty/
785.	55 or 56
786.	25 and 57
787.	58 and (35 or 54)
788.	*obesity/
789.	*body weight/
790.	(obese or obesity or obeseness or overweight or over weight).ti,ab.
791.	underweight/
792.	(slim or slender or leanness or lean or thin or thinness or underweight or under weight).ti,ab.
793.	*body mass/
794.	BMI.ti,ab.
795.	(body adj (fat or composition or mass)).ti,ab.
796.	((body or normal or healthy or ideal) adj weight).ti,ab.
797.	or/60-68
798.	59 and 69

A.17 Health Economics literature search strategy

Health economic evidence was identified by conducting a broad search relating to an Osteoarthritis population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA – this ceased to be updates after March 2018). NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase for health economics studies and quality of life studies. Searches for quality of life studies were run for general information.

Table 17: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline	1 January 2014 – 17 November 2021	Health economics studies Quality of life studies Exclusions (animals studies, letters, comments)
Embase	1 January 2014 – 17 November 2021	Health economics studies Quality of life studies Exclusions (animals studies, letters, comments)
Centre for Research and Dissemination (CRD)	HTA - Inception – 31 March 2018 NHSEED - Inception to 31 March 2015	None

Medline (Ovid) search terms

1.	exp osteoarthritis/
2.	(osteoartriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.
3.	(degenerative adj2 arthritis).ti,ab.
4.	coxarthrosis.ti,ab.
5.	gonarthrosis.ti,ab.
6.	or/1-5
7.	letter/
8.	editorial/
9.	news/
10.	exp historical article/
11.	Anecdotes as Topic/
12.	comment/
13.	case report/
14.	(letter or comment*).ti.
15.	or/7-14
16.	randomized controlled trial/ or random*.ti,ab.
17.	15 not 16
18.	animals/ not humans/
19.	exp Animals, Laboratory/
20.	exp Animal Experimentation/
21.	exp Models, Animal/
22.	exp Rodentia/
23.	(rat or rats or mouse or mice or rodent*).ti.
24.	or/17-23
25.	6 not 24
26.	limit 25 to English language
27.	Economics/

28.	Value of life/
29.	exp "Costs and Cost Analysis"/
30.	exp Economics, Hospital/
31.	exp Economics, Medical/
32.	Economics, Nursing/
33.	Economics, Pharmaceutical/
34.	exp "Fees and Charges"/
35.	exp Budgets/
36.	budget*.ti,ab.
37.	cost*.ti.
38.	(economic* or pharmaco?economic*).ti.
39.	(price* or pricing*).ti,ab.
40.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
41.	(financ* or fee or fees).ti,ab.
42.	(value adj2 (money or monetary)).ti,ab.
43.	or/27-42
44.	quality-adjusted life years/
45.	sickness impact profile/
46.	(quality adj2 (wellbeing or well being)).ti,ab.
47.	sickness impact profile.ti,ab.
48.	disability adjusted life.ti,ab.
49.	(qal* or qtime* or qwb* or daly*).ti,ab.
50.	(euroqol* or eq5d* or eq 5*).ti,ab.
51.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
52.	(hui or hui1 or hui2 or hui3).ti,ab.
53.	(health* year* equivalent* or hye or hyes).ti,ab.
54.	discrete choice*.ti,ab.
55.	rosser.ti,ab.
56.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
57.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
58.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
59.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
60.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
61.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
62.	or/44-61
63.	26 and (43 or 62)

Embase (Ovid) search terms

1.	exp osteoarthritis/
2.	(osteoarthriti* or osteo-arthriti* or osteoarthrotic or osteoarthros*).ti,ab.

3.	(degenerative adj2 arthritis).ti,ab.
4.	coxarthrosis.ti,ab.
5.	gonarthrosis.ti,ab.
6.	or/1-5
7.	letter.pt. or letter/
8.	note.pt.
9.	editorial.pt.
10.	case report/ or case study/
11.	(letter or comment*).ti.
12.	or/7-11
13.	randomized controlled trial/ or random*.ti,ab.
14.	12 not 13
15.	animal/ not human/
16.	nonhuman/
17.	exp Animal Experiment/
18.	exp Experimental Animal/
19.	animal model/
20.	exp Rodent/
21.	(rat or rats or mouse or mice or rodent*).ti.
22.	or/14-21
23.	6 not 22
24.	Limit 23 to English language
25.	health economics/
26.	exp economic evaluation/
27.	exp health care cost/
28.	exp fee/
29.	budget/
30.	funding/
31.	budget*.ti,ab.
32.	cost*.ti.
33.	(economic* or pharmaco?economic*).ti.
34.	(price* or pricing*).ti,ab.
35.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
36.	(financ* or fee or fees).ti,ab.
37.	(value adj2 (money or monetary)).ti,ab.
38.	or/25-37
39.	quality adjusted life year/
40.	"quality of life index"/
41.	short form 12/ or short form 20/ or short form 36/ or short form 8/
42.	sickness impact profile/

43.	(quality adj2 (wellbeing or well being)).ti,ab.
44.	sickness impact profile.ti,ab.
45.	disability adjusted life.ti,ab.
46.	(qal* or qtime* or qwb* or daly*).ti,ab.
47.	(euroqol* or eq5d* or eq 5*).ti,ab.
48.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
49.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
50.	(hui or hui1 or hui2 or hui3).ti,ab.
51.	(health* year* equivalent* or hye or hyes).ti,ab.
52.	discrete choice*.ti,ab.
53.	rosser.ti,ab.
54.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
55.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
56.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
57.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
58.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
59.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
60.	or/39-59
61.	24 and (38 or 60)

NHS EED and HTA (CRD) search terms

#1.	MeSH DESCRIPTOR Osteoarthritis EXPLODE ALL TREES
#2.	((osteoarthriti* or osteo-arthritis* or osteoarthrotic or osteoarthros*))
#3.	((degenerative adj2 arthritis))
#4.	(coxarthrosis)
#5.	(gonarthrosis)
#6.	#1 OR #2 OR #3 OR #4 OR #5
#7.	(#6) IN NHSEED
#8.	(#6) IN HTA