

Literature search strategies

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Search strategies used for the lower back pain guideline are outlined below and were run in accordance with the methodology in the NICE guidelines manual 2012. (National Institute for Health and Clinical

Excellence, 2012 NICE2012 /id} All searches were run up to **15 December 2015** unless otherwise stated. Any studies added to the databases after this date (even those published prior to this date) were not included unless specifically stated in the text. We do not routinely search for electronic, ahead of print or 'online early' publications. Where possible searches were limited to retrieve material published in English.

Table 1: Database date parameters

Database	Dates searched
Medline	1946 – 15 December 2015
Embase	1980 – 15 December 2015
The Cochrane Library	Cochrane Reviews to 2015 Issue 12 of 12 CENTRAL to 2015 Issue 11 of 12 DARE to 2015 Issue 2 of 4 HTA to 2015 Issue 4 of 4 NHSEED to 2015 Issue 2 of 4
Amed (Allied and Complementary Medicine)	1985 to 15 December 2015
PsycINFO (Ovid)	1806 – 15 December 2015
PsycINFO (ProQuest)	1806 – 2015
CINAHL	1981 – 15 December 2015

Table 2: Databases searched

	Question	Databases
A.1.4.1	Assessment: clinical examination	Medline/Embase/Cochrane Library
A.1.4.2	Assessment: imaging	Medline/Embase/Cochrane Library
A.1.4.2	Assessment: risk assessment tools	Medline/Embase/Cochrane Library
A.1.4.4	Lifestyle interventions: self-management strategies	Medline/Embase/Cochrane Library/CINAHL
A.1.4.5	Combinations of interventions	Medline/Embase/Cochrane Library/AMED/CINAHL/PsycINFO
A.1.4.6	Non-invasive interventions: acupuncture	Medline/Embase/Cochrane/AMED/CINAHL
A.1.4.11	Non-invasive interventions: electrotherapy	Medline/Embase/Cochrane Library/CINAHL
A.1.4.6	Non-invasive interventions: exercise interventions	Medline/Embase/Cochrane Library/AMED/CINAHL
A.1.4.9	Non-invasive interventions: manual therapies	Medline/Embase/Cochrane Library/AMED/CINAHL
A.1.4.8	Non-invasive interventions: orthotics and appliances	Medline/Embase/Cochrane Library/AMED/CINAHL
A.1.4.12	Non-invasive interventions: pharmacological treatment (RCTs and SRs)	Medline/Embase/Cochrane Library
A.1.4.15	Non-invasive interventions: pharmacological treatment (observational studies)	Medline/Embase
A.1.4.7	Non-invasive interventions: postural therapies	Medline/Embase/Cochrane Library/AMED/CINAHL
A.1.4.12	Non-invasive interventions: psychological	Medline/Embase/Cochrane

	Question	Databases
	interventions (RCTs and SRs)	Library/PsycINFO
A.1.4.13	Non-invasive interventions: psychological interventions (observational studies)	Medline/Embase/Cochrane Library/PsycINFO
A.1.4.18	Referral for surgical opinion: non-specific LBP and suspected sciatica	Medline/Embase/Cochrane Library
A.1.4.16	Invasive and surgical procedures: radiofrequency ablation	Medline/Embase/Cochrane Library
A.1.4.17	Invasive and surgical procedures: epidural injections	Medline/Embase/Cochrane Library
A.1.4.18	Invasive and surgical procedures: spinal decompression	Medline/Embase/Cochrane Library
A.1.4.20	Invasive and surgical procedures: spinal fusion or arthrodesis	Medline/Embase/Cochrane Library
A.1.4.19	Invasive and surgical procedures: disc replacement surgery	Medline/Embase/Cochrane Library

Searches for the **clinical reviews** were run in Medline (OVID), Embase (OVID) and the Cochrane Library (Wiley). Additional searches were run in AMED (OVID), CINAHL (EBSCO) and PsycINFO (OVID/ProQuest) for some questions

Searches for **intervention and diagnostic studies** were usually constructed using a PICO format where population (P) terms were combined with Intervention (I) and sometimes Comparison (C) terms. An intervention can be a drug, a procedure or a diagnostic test. Outcomes (O) are rarely used in search strategies for interventions. Search filters were also added to the search where appropriate.

Searches for **prognostic studies** were usually constructed combining population terms with prognostic variable terms and sometimes outcomes. Search filters were added to the search where appropriate.

Searches for the **health economic reviews** were run in Medline (OVID), Embase (OVID), the NHS Economic Evaluations Database (NHS EED), the Health Technology Assessment (HTA) database and the Health Economic Evaluation Database (HEED). The Health Economic Evaluation Database (HEED) ceased production in 2014 with access ceasing in January 2015. For the final dates of HEED searches, please see individual economic questions. Searches in NHS EED and HEED were constructed using population terms only. For Medline and Embase an economic filter (instead of a study type filter) was added to the same clinical search strategy.

A.1.2 Population search strategies

Medline search terms

1.	low back pain/
2.	sciatica/
3.	radiculopathy/
4.	((lumbar or lumbosacral or lumbo-sacral or back) adj5 (pain* or ache* or aching)).ti,ab.
5.	(backache* or lumbago or sciatica).ti,ab.
6.	(radiculopathy or radiculitis or radicular pain*).ti,ab.
7.	(nerve root* adj5 (pain* or avulsion or compress* or disorder* or pinch* or inflam* or imping* or irritat* or entrap* or trap*)).ti,ab.
8.	or/6-7
9.	(back* or lumbosacral or lumbo-sacral or lumbar).ti,ab.

10.	8 and 9
11.	or/1-5,10

Embase search terms

1.	*low back pain/
2.	*sciatica/
3.	*radiculopathy/
4.	*radicular pain/
5.	*radiculitis/
6.	exp *"nerve root injury"/
7.	(backache* or lumbago or sciatica).ti,ab.
8.	((lumbar or lumbosacral or lumbo-sacral or back) adj5 (pain* or ache* or aching)).ti,ab.
9.	(radiculopathy or radiculitis or radicular pain*).ti,ab.
10.	(nerve root* adj5 (pain* or avulsion or compress* or disorder* or pinch* or inflam* or imping* or irritat* or entrap* or trap*)).ti,ab.
11.	or/9-10
12.	(back* or lumbosacral or lumbo-sacral or lumbar).ti,ab.
13.	11 and 12
14.	or/1-8,13

Cochrane search terms

#1.	[mh "low back pain"]
#2.	[mh sciatica]
#3.	[mh radiculopathy]
#4.	((lumbar or lumbosacral or lumbo-sacral or back) near/5 (pain* or ache* or aching)):ti,ab,kw
#5.	(backache* or lumbago or sciatica):ti,ab,kw
#6.	(radiculopathy or radiculitis or radicular pain*):ti,ab,kw
#7.	(nerve root* near/5 (pain* or avulsion or compress* or disorder* or pinch* or inflam* or imping* or irritat* or entrap* or trap*)):ti,ab,kw
#8.	{or #6-#7}
#9.	(back* or lumbosacral or lumbo-sacral or lumbar):ti,ab,kw
#10.	#8 and #9
#11.	{or #1-#5, #10}

AMED search terms

1.	low back pain/
2.	sciatica/
3.	((lumbar or lumbosacral or lumbo-sacral or back) adj5 (pain* or ache* or aching)).ti,ab.
4.	(backache* or lumbago or sciatica).ti,ab.
5.	(radiculopathy or radiculitis or radicular pain*).ti,ab.
6.	(nerve root* adj5 (pain* or avulsion or compress* or disorder* or pinch* or inflam* or imping* or irritat* or entrap* or trap*)).ti,ab.
7.	or/5-6
8.	(back* or lumbosacral or lumbo-sacral or lumbar).ti,ab.
9.	7 and 8
10.	or/1-4,9

CINAHL search terms

S1.	(MH "low back pain")
S2.	(MH "sciatica")
S3.	(MH "radiculopathy")
S4.	(lumbar or lumbosacral or lumbo-sacral or back) N5 (pain* or ache* or aching)
S5.	backache* or lumbago or sciatica
S6.	radiculopathy or radiculitis or radicular pain*
S7.	nerve root* n5 (pain* or avulsion or compress* or disorder* or pinch* or inflam* or imping* or irritat* or entrap* or trap*)
S8.	S6 or S7
S9.	back* or lumbosacral or lumbo-sacral or lumbar
S10.	S8 and S9
S11.	S1 or S2 or S3 or S4 or S5 or S10

PsycINFO search terms

1.	back pain/
2.	((lumbar or lumbosacral or lumbo-sacral or back) adj5 (pain* or ache* or aching)).ti,ab.
3.	(backache* or lumbago or sciatica).ti,ab.
4.	(radiculopathy or radiculitis or radicular pain*).ti,ab.
5.	(nerve root* adj5 (pain* or avulsion or compress* or disorder* or pinch* or inflam* or imping* or irritat* or entrap* or trap*)).ti,ab.
6.	4 or 5
7.	(back* or lumbosacral or lumbo-sacral or lumbar).ti,ab.
8.	6 and 7
9.	or/1-3,8

PsycINFO search terms (ProQuest)

S1.	((su.exact("back pain") or ti,ab((lumbar or lumbosacral or lumbo-sacral or back) near/5 (pain* or ache* or aching)) or ti,ab (backache* or lumbago or sciatica)) or ((ti,ab(radiculopathy or radiculitis or radicular pain*) or ti,ab(nerve root* near/5 (pain* or avulsion or compress* or disorder* or pinch* or inflam* or imping* or irritat* or entrap* or trap*))) and ti,ab(back* or lumbosacral or lumbo-sacral or lumbar)))
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CRD search terms

#1.	MeSH descriptor low back pain explode all trees
#2.	MeSH descriptor sciatica explode all trees
#3.	MeSH descriptor radiculopathy explode all trees
#4.	MeSH descriptor polyradiculoneuropathy explode all trees
#5.	MeSH descriptor polyradiculopathy explode all trees
#6.	((lumbar or lumbosacral or lumbo-sacral or back) near (pain* or ache* or aching))
#7.	((backache* or lumbago or sciatica))
#8.	((radiculopathy or radiculitis or radicular pain*))
#9.	((nerve root* near (pain* or avulsion or compress* or disorder* or pinch* or inflam* or imping* or irritat* or entrap* or trap*)))
#10.	((polyradiculoneuritis or polyradiculitis))
#11.	((back* or lumbosacral or lumbo-sacral or lumbar))
#12.	#8 or #9 or #10

#13.	#11 and #12
#14.	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #13

HEED search terms

1.	ax=(lumbar or lumbosacral or lumbo-sacral or back) and (pain* or ache* or aching)
2.	ax=backache* or lumbago or sciatica
3.	ax=radiculopathy or radiculitis or radicular pain
4.	ax=nerve root or nerve roots
5.	ax=pain* or avulsion or compress* or disorder* or pinch* or inflam* or imping* or irritat* or entrap* or trap*
6.	cs=4 and 5
7.	ax=polyradiculoneuritis or polyradiculitis or polyradiculopathy or polyradiculoneuropathy
8.	cs=3 or 6 or 7
9.	ax=(back* or lumbosacral or lumbo-sacral or lumbar)
10.	cs=8 and 9
11.	cs=1 or 2 or 10

A.1.3 Study filter search terms

A.1.3.1 Excluded study designs and publication types

The following study designs and publication types were removed from retrieved results using the NOT operator.

Medline search terms

1.	letter/
2.	editorial/
3.	news/
4.	exp historical article/
5.	anecdotes as topic/
6.	comment/
7.	case report/
8.	(letter or comment*).ti.
9.	or/1-8
10.	randomized controlled trial/ or random*.ti,ab.
11.	9 not 10
12.	animals/ not humans/
13.	exp animals, laboratory/
14.	exp animal experimentation/
15.	exp models, animal/
16.	exp rodentia/
17.	(rat or rats or mouse or mice).ti.
18.	or/11-17

Embase search terms

1.	letter.pt. or letter/
2.	note.pt.
3.	editorial.pt.

4.	case report/ or case study/
5.	(letter or comment*).ti.
6.	or/1-5
7.	randomized controlled trial/ or random*.ti,ab.
8.	6 not 7
9.	animal/ not human/
10.	nonhuman/
11.	exp animal experiment/
12.	exp experimental animal/
13.	animal model/
14.	exp rodent/
15.	(rat or rats or mouse or mice).ti.
16.	or/8-15

AMED search terms

1.	case report/
2.	(letter or comment*).ti.
3.	or/1-2
4.	randomized controlled trials/ or random*.ti,ab.
5.	3 not 4
6.	animals/ not humans/
7.	(rat or rats or mouse or mice).ti.
8.	or/5-7

CINAHL search terms

S1.	PT anecdote or PT audiovisual or PT bibliography or PT biography or PT book or PT book review or PT brief item or PT cartoon or PT commentary or PT computer program or PT editorial or PT games or PT glossary or PT historical material or PT interview or PT letter or PT listservs or PT masters thesis or PT obituary or PT pamphlet or PT pamphlet chapter or PT pictorial or PT poetry or PT proceedings or PT "questions and answers" or PT response or PT software or PT teaching materials or PT website
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A.1.3.2 Randomised controlled trials (RCTs) search terms

Medline search terms

1.	randomized controlled trial.pt.
2.	controlled clinical trial.pt.
3.	randomi#ed.ab.
4.	placebo.ab.
5.	drug therapy.fs.
6.	randomly.ab.
7.	trial.ab.
8.	groups.ab.
9.	or/1-8

Embase search terms

1.	random*.ti,ab.
2.	factorial*.ti,ab.

3.	(crossover* or cross over*).ti,ab.
4.	((doubl* or singl*) adj blind*).ti,ab.
5.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
6.	crossover procedure/
7.	double blind procedure/
8.	single blind procedure/
9.	randomized controlled trial/
1	or/1-9

AMED search terms

1.	randomized controlled trial.pt.
2.	randomized controlled trials/
3.	controlled clinical trial.pt.
4.	placebo.ab.
5.	random*.ti,ab.
6.	trial.ti,ab.
7.	groups.ab.
8.	or/1-7

A.1.3.3 Systematic review search terms

Medline search terms

1.	meta-analysis/
2.	meta-analysis as topic/
3.	(meta analy* or metanaly* or metaanaly*).ti,ab.
4.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
5.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
6.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
7.	(search* adj4 literature).ab.
8.	(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.
9.	cochrane.jw.
10.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
11.	or/1-10

Embase search terms

1.	systematic review/
2.	meta-analysis/
3.	(meta analy* or metanaly* or metaanaly*).ti,ab.
4.	((systematic or evidence) adj3 (review* or overview*)).ti,ab.
5.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
6.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
7.	(search* adj4 literature).ab.

8.	(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.
9.	((pool* or combined) adj2 (data or trials or studies or results)).ab.
10.	cochrane.jw.
11.	or/1-10

AMED search terms

1.	Meta-Analysis/
2.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
3.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
4.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
5.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
6.	(search* adj4 literature).ab.
7.	(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.
8.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
9.	or/1-8

A.1.3.4 Health economics search terms

Medline search terms

1.	economics/
2.	value of life/
3.	exp "costs and cost analysis"/
4.	exp economics, hospital/
5.	exp economics, medical/
6.	economics, nursing/
7.	economics, pharmaceutical/
8.	exp "fees and charges"/
9.	exp budgets/
10.	budget*.ti,ab.
11.	cost*.ti.
12.	(economic* or pharmaco?economic*).ti.
13.	(price* or pricing*).ti,ab.
14.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
15.	(financ* or fee or fees).ti,ab.
16.	(value adj2 (money or monetary)).ti,ab.
17.	or/1-16

Embase search terms

1.	health economics/
2.	exp economic evaluation/
3.	exp health care cost/
4.	exp fee/
5.	budget/
6.	funding/

7.	budget*.ti,ab.
8.	cost*.ti.
9.	(economic* or pharmaco?economic*).ti.
10.	(price* or pricing*).ti,ab.
11.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
12.	(financ* or fee or fees).ti,ab.
13.	(value adj2 (money or monetary)).ti,ab.
14.	or/1-13

A.1.3.5 Diagnostic studies search terms

Medline search terms

1.	exp "sensitivity and specificity"/
2.	(sensitivity or specificity).ti,ab.
3.	((pre test or pretest or post test) adj probability).ti,ab.
4.	(predictive value* or ppv or npv).ti,ab.
5.	likelihood ratio*.ti,ab.
6.	likelihood function/
7.	(roc curve* or auc).ti,ab.
8.	(diagnos* adj3 (performance* or accurac* or utilit* or value* or efficien* or effectiveness)).ti,ab.
9.	gold standard.ab.
10.	or/1-9

Embase search terms

1.	exp "sensitivity and specificity"/
2.	(sensitivity or specificity).ti,ab.
3.	((pre test or pretest or post test) adj probability).ti,ab.
4.	(predictive value* or ppv or npv).ti,ab.
5.	likelihood ratio*.ti,ab.
6.	(roc curve* or auc).ti,ab.
7.	(diagnos* adj3 (performance* or accurac* or utilit* or value* or efficien* or effectiveness)).ti,ab.
8.	diagnostic accuracy/
9.	diagnostic test accuracy study/
10.	gold standard.ab.
11.	or/1-10

A.1.3.6 Observational studies search terms

Medline search terms

1.	epidemiologic studies/
2.	exp case control studies/
3.	exp cohort studies/
4.	cross-sectional studies/
5.	case control.ti,ab.
6.	(cohort adj (study or studies or analys*)).ti,ab.

7.	((follow up or observational or uncontrolled or non randomi#ed or nonrandomi#ed or epidemiologic*) adj (study or studies)).ti,ab.
8.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort*)).ti,ab.
9.	or/1-8

Embase search terms

1.	clinical study/
2.	exp case control study/
3.	family study/
4.	longitudinal study/
5.	retrospective study/
6.	prospective study/
7.	cross-sectional study/
8.	cohort analysis/
9.	follow-up/
10.	cohort*.ti,ab.
11.	9 and 10
12.	case control.ti,ab.
13.	(cohort adj (study or studies or analys*)).ti,ab.
14.	((follow up or observational or uncontrolled or non randomi#ed or nonrandomi#ed or epidemiologic*) adj (study or studies)).ti,ab.
15.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort*)).ti,ab.
16.	or/1-8,11-15

A.1.3.7 Prognostic studies search terms

Medline search terms

1.	predict.ti.
2.	(validat* or rule*).ti,ab.
3.	(predict* and (outcome* or risk* or model*)).ti,ab.
4.	((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.
5.	decision*.ti,ab. and logistic models/
6.	(decision* and (model* or clinical*)).ti,ab.
7.	(prognostic and (history or variable* or criteria or scor* or characteristic* or finding* or factor* or model*)).ti,ab.
8.	(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.
9.	roc curve/
10.	or/1-9

Embase search terms

1.	predict*.ti.
2.	(validat* or rule*).ti,ab.
3.	(predict* and (outcome* or risk* or model*)).ti,ab.
4.	((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.

5.	decision*.ti,ab. and statistical model/
6.	(decision* and (model* or clinical*)):ti,ab.
7.	(prognostic and (history or variable* or criteria or scor* or characteristic* or finding* or factor* or model*)):ti,ab.
8.	(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.
9.	receiver operating characteristic/
10.	or/1-9

Cochrane search terms

#1.	predict:ti
#2.	(validat* or rule*):ti,ab
#3.	(predict* and (outcome* or risk* or model*)):ti,ab
#4.	((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
#5.	decision*:ti,ab and [mh "logistic models"]
#6.	(decision* and (model* or clinical*)):ti,ab
#7.	(prognostic and (history or variable* or criteria or scor* or characteristic* or finding* or factor* or model*)):ti,ab
#8.	(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
#9.	[mh "roc curve"]
#10.	{or #1-#9}

A.1.4 Searches for specific questions

A.1.4.1 Assessment: clinical examination

- What is the diagnostic accuracy of clinical examination in the assessment of sciatica?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	*physical examination/
6.	exp range of motion, articular/
7.	exp muscle strength/
8.	exp neurologic examination/
9.	((neurological or physical or clinical) adj2 exam*).ti,ab.
10.	(stretch* adj4 test*).ti,ab.
11.	(leg adj3 (raise* or raising)).ti,ab.
12.	(muscle* adj2 (strength or strong or motor*)):ti,ab.
13.	(prone knee* adj2 (bend* or flex*)):ti,ab.
14.	((dermatome* or dermatomal) adj4 (sense* or sensory) adj4 (loss or lost)).ti,ab.
15.	reflex* impair*.ti,ab.
16.	slump* test*.ti,ab.
17.	or/5-16
18.	Study filters RCT [A.1.3.2] or SR [A.1.3.3]

19.	4 and 17 and 18
20.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	*physical examination/
6.	exp muscle strength/
7.	exp neurologic examination/
8.	exp "joint characteristics and functions"/
9.	((neurological or physical or clinical) adj2 exam*).ti,ab.
10.	(stretch* adj4 test*).ti,ab.
11.	(leg adj3 (raise* or raising)).ti,ab.
12.	(muscle* adj2 (strength or strong or motor*)).ti,ab.
13.	(prone knee* adj2 (bend* or flex*)).ti,ab.
14.	((dermatome* or dermatomal) adj4 (sense* or sensory) adj4 (loss or lost)).ti,ab.
15.	reflex* impair*.ti,ab.
16.	slump* test*.ti,ab.
17.	or/5-16
18.	Study filters RCT [A.1.3.2] or SR [A.1.3.3]
19.	4 and 17 and 18
20.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	MeSH descriptor: [physical examination] this term only
#3.	MeSH descriptor: [range of motion, articular] explode all trees
#4.	MeSH descriptor: [muscle strength] explode all trees
#5.	MeSH descriptor: [neurologic examination] explode all trees
#6.	((neurological or physical or clinical) near/2 exam*):ti,ab
#7.	(stretch* near/4 test*):ti,ab
#8.	(leg near/3 (raise* or raising)):ti,ab
#9.	(muscle* near/2 (strength or strong or motor*)):ti,ab
#10.	(prone knee* near/2 (bend* or flex*)):ti,ab
#11.	((dermatome* or dermatomal) near/4 (sense* or sensory) near/4 (loss or lost)):ti,ab
#12.	reflex* impair*:ti,ab
#13.	slump* test*:ti,ab
#14.	{or #2-#13}
#15.	#1 and #14
#16.	See Table 1 for date parameters

A.1.4.2 Assessment: risk assessment tools

Searches for the following two questions were run as one search:

- Which validated risk assessment tools are the most accurate for identifying people with low back pain or sciatica at risk of poor outcome/delayed improvement?

- What is the clinical and cost effectiveness of stratifying management of non-specific low back pain or sciatica according to outcome of a risk assessment tool/questionnaire?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	dram.ti,ab.
6.	orebro.ti,ab.
7.	(gatchel or delitto or flynn or hancock or sullivan).ti,ab.
8.	gatchel rj.au.
9.	delitto a.au.
10.	flynn t.au.
11.	hancock mj.au.
12.	(o'sullivan p or o'sullivan pb).au.
13.	childs jd.au.
14.	risk assessment/
15.	((risk* or stratif* or predict* or assess* or screen* or score* or scoring or equation* or algorithm) adj4 (tool* or rule* or instrument*1 or index* or test* or technique* or analys* or criteria or calculat* or questionnaire*)).ti,ab.
16.	or/5-15
17.	4 and 16
18.	(start back or startback).ti,ab.
19.	Study filters OBS [A.1.3.6] or DIAG [A.1.3.5] or PROG [A.1.3.7]
20.	(17 or 18) and 19
21.	Date parameters: 1985-15/12/15

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	dram.ti,ab.
6.	orebro.ti,ab.
7.	(gatchel or delitto or flynn or hancock or sullivan or "o'sullivan").ti,ab.
8.	gatchel rj.au.
9.	delitto a.au.
10.	flynn t.au.
11.	hancock mj.au.
12.	(o'sullivan p or o'sullivan pb).au.
13.	childs jd.au.
14.	risk assessment/
15.	((risk* or stratif* or predict* or assess* or screen* or score* or scoring or equation* or algorithm) adj4 (tool* or rule* or instrument*1 or index* or test* or technique* or analys* or criteria or calculat* or questionnaire*)).ti,ab.
16.	or/5-15
17.	4 and 16

18.	(start back or startback).ti,ab.
19.	Study filters OBS [A.1.3.6] or DIAG [A.1.3.5] or PROG [A.1.3.7]
20.	(17 or 18) and 19
21.	Date parameters: 1985-15/12/15

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	(dram or 'orebro' or gatchel or delitto or flynn or hancock or sullivan or "o'sullivan"):ti,ab,kw
#3.	gatchel rj:au
#4.	delitto a:au
#5.	flynn t:au
#6.	hancock mj:au
#7.	(o'sullivan p or o'sullivan pb):au
#8.	childs jd:au
#9.	MeSH descriptor: [risk assessment] explode all trees
#10.	((risk* or stratif* or predict* or assess* or screen* or score* or scoring or equation* or algorithm) near/4 (tool* or rule* or instrument*1 or index* or test* or technique* or analys* or criteria or calculat* or questionnaire*)):ti,ab
#11.	{or #2-#10}
#12.	#1 and #11
#13.	(start back or startback):ti,ab
#14.	#12 or #13
#15.	Date parameters: 1985-15/12/15

A.1.4.3 Assessment: imaging

- What is the clinical and cost effectiveness of performing imaging (X-ray or MRI) compared with no investigation to improve functional disability, pain or psychological distress in people with low back pain and/or sciatica?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp radiography/
6.	ra.fs.
7.	x-ray.ti,ab.
8.	exp magnetic resonance imaging/
9.	mri.ti,ab.
10.	((magnetic resonance or mr or nmr) adj2 (tomogra* or imag* or scan*)):ti,ab.
11.	exp tomography, x-ray computed/
12.	((ct or cat) adj2 (imag* or scan* or diagnos*)):ti,ab.
13.	(compute* adj3 tomogra*).ti,ab.
14.	or/5-13
15.	Study filters RCT [A.1.3.2] or SR [A.1.3.3] or OBS [A.1.3.6]
16.	4 and 14 and 15

17.	See Table 1 for date parameters
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Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	limit 3 to english language
5.	exp radiography/
6.	rt.fs.
7.	x ray.ti,ab.
8.	exp nuclear magnetic resonance imaging/
9.	mri.ti,ab.
10.	((magnetic resonance or mr or nmr) adj2 (tomogra* or imag* or scan*)).ti,ab.
11.	exp computer assisted tomography/
12.	((ct or cat) adj2 (imag* or scan* or diagnos*)).ti,ab.
13.	(compute* adj3 tomogra*).ti,ab.
14.	or/4-13
15.	Study filters RCT [A.1.3.2] or SR [A.1.3.3] or OBS [A.1.3.6]
16.	4 and 14 and 15
17.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	MeSH descriptor: [radiography] explode all trees
#3.	Any MeSH descriptor with qualifier(s): [radiography - ra]
#4.	x-ray:ti,ab,kw
#5.	MeSH descriptor: [magnetic resonance imaging] explode all trees
#6.	mri:ti,ab,kw
#7.	((magnetic resonance or mr or nmr) near/2 (tomogra* or imag* or scan*)):ti,ab,kw
#8.	((ct or cat) near/2 (imag* or scan* or diagnos*)):ti,ab,kw
#9.	(compute* near/3 tomogra*):ti,ab,kw
#10.	{or #2-#9}
#11.	#1 and #10
#12.	See Table 1 for date parameters

A.1.4.4 Lifestyle interventions: self-management strategies

- What is the clinical and cost effectiveness of self-management strategies in the management of non-specific low back pain and sciatica?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	self care/
6.	patient education as topic/
7.	self-help groups/

8.	((support* or help*) adj2 group*).ti,ab.
9.	back book*.ti,ab.
10.	back school*.ti,ab.
11.	rest/
12.	bed rest/
13.	((people or person or patient* or carer* or caregiver*) adj3 (information* or educat* or learn* or train* or program* or advi?e* or instruction* or teach* or assurance* or reassurance* or support*)).ti,ab.
14.	pamphlets/
15.	"activities of daily living"/
16.	(advi?e adj3 exercis*).ti,ab.
17.	((stay* or keep* or remain*) adj2 (active or mobile or moving)).ti,ab.
18.	((personal or daily or day* or ordinary or normal* or usual or avoid*) adj2 activit*).ti,ab.
19.	((self or own or personal) adj3 (rehab* or efficacy or treatment* or programme* or program* or technique* or manage* or intervention* or therap* or train* or strateg* or method* or counsel* or care* or caring or treat* or help*)).ti,ab.
20.	(pamphlet* or leaflet* or booklet* or manual* or brochure* or handout* or website* or web site* or web page* or webpage* or video* or dvd*).ti,ab.
21.	((bed* adj2 rest*) or bedrest*).ti,ab.
22.	or/5-21
23.	Study filters RCT [A.3.2] or SR [A.3.3]
24.	4 and 22 and 23
25.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	((people or person or patient* or carer* or caregiver*) adj3 (information* or educat* or learn* or train* or program* or advi?e* or instruction* or teach* or assurance* or reassurance* or support*)).ti,ab.
6.	((support* or help*) adj2 group*).ti,ab.
7.	back book*.ti,ab.
8.	back school*.ti,ab.
9.	(advi?e adj3 exercis*).ti,ab.
10.	((stay* or keep* or remain*) adj2 (active or mobile or moving)).ti,ab.
11.	((personal or daily or day* or ordinary or normal* or usual or avoid*) adj2 activit*).ti,ab.
12.	(pamphlet* or leaflet* or booklet* or manual* or brochure* or handout* or website* or web site* or web page* or webpage* or video* or dvd*).ti,ab.
13.	((bed* adj2 rest*) or bedrest*).ti,ab.
14.	((self or own or personal) adj3 (rehab* or efficacy or treatment* or programme* or program* or technique* or manage* or intervention* or therap* or train* or strateg* or method* or counsel* or care* or caring or treat* or help*)).ti,ab.
15.	*support group/
16.	exp *self care/
17.	*patient education/

18.	*bed rest/
19.	*rest/
20.	*daily life activity/
21.	or/5-20
22.	Study filters RCT [A.3.2] or SR [A.3.3]
23.	4 and 21 and 22
24.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	[mh "patient education as topic"]
#3.	[mh "self-help groups"]
#4.	[mh rest]
#5.	[mh "bed rest"]
#6.	[mh pamphlets]
#7.	[mh "activities of daily living"]
#8.	((support* or help*) near/2 group*):ti,ab
#9.	back book*:ti,ab
#10.	back school*:ti,ab
#11.	((people or person or patient* or carer* or caregiver*) near/3 (information* or educat* or learn* or train* or program* or advi?e* or instruction* or teach* or assurance* or reassurance* or support*)):ti,ab
#12.	(advi?e near/3 exercis*):ti,ab
#13.	((stay* or keep* or remain*) near/2 (active or mobile or moving)):ti,ab
#14.	((personal or daily or day* or ordinary or normal* or usual or avoid*) near/2 activit*):ti,ab
#15.	((self or own or personal) near/3 (rehab* or efficacy or treatment* or programme* or program* or technique* or manage* or intervention* or therap* or train* or strateg* or method* or counsel* or care* or caring or treat* or help*)):ti,ab
#16.	(pamphlet* or leaflet* or booklet* or manual* or brochure* or handout* or website* or web site* or web page* or webpage* or video* or dvd*):ti,ab
#17.	((bed* near/2 rest*) or bedrest*):ti,ab
#18.	{or #2-#17}
#19.	#1 and #18
#20.	See Table 1 for date parameters

CINAHL search terms

S1.	Standard lower back pain population [A.1.2]
S2.	Excluded study designs and publication types [A.1.3.1]
S3.	1 not 2
S4.	Limit 3 to English language
S5.	(support* or help*) n2 group*
S6.	back book*
S7.	back school*
S8.	(people or person or patient* or carer* or caregiver*) n3 (information* or educat* or learn* or train* or program* or advi?e* or instruction* or teach* or assurance* or reassurance* or support*)
S9.	advi?e n3 exercis*

S10.	(stay* or keep* or remain*) n2 (active or mobile or moving)
S11.	(personal or daily or day* or ordinary or normal* or usual or avoid*) n2 activit*
S12.	(self or own or personal) n3 (rehab* or efficacy or treatment* or programme* or program* or technique* or manage* or intervention* or therap* or train* or strateg* or method* or counsel* or care* or caring or treat* or help*)
S13.	pamphlet* or leaflet* or booklet* or manual* or brochure* or handout* or website* or web site* or web page* or webpage* or video* or dvd*
S14.	(bed* n2 rest*) or bedrest*
S15.	(mh "patient education")
S16.	(mh "self care")
S17.	(mh "support groups")
S18.	(mh "bed rest")
S19.	(mh "activities of daily living+")
S20.	(mh "pamphlets")
S21.	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
S22.	S4 and S21 Limiters – Human
S23.	See Table 1 for date parameters

A.1.4.5 Combinations of interventions

- What is the clinical and cost effectiveness of combinations of non-invasive interventions in the management of non-specific LBP and sciatica?
- What is the clinical and cost effectiveness of workplace / return to work interventions in the management of non-specific low back pain and sciatica?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	combined modality therapy/
6.	((combin* or multi*) adj3 (facet* or interven* or treat* or therap* or approach* or manag* or program*)).ti,ab.
7.	(package* or bundle* or pathway*).ti,ab.
8.	(multifacet* or multimod* or multidisc*).ti,ab.
9.	(combin* adj2 psych* adj2 physical*).ti,ab.
10.	(pain adj2 program*).ti,ab.
11.	(function* adj2 (restor* or recover*)).ti,ab.
12.	workplace/
13.	return to work/
14.	(work* adj3 (modification* or modify or program* or train* or therap* or treat* or exercise* or intervention*)).ti,ab.
15.	interdisc*.ti,ab.
16.	or/5-15
17.	Study filters RCT [A.3.2] or SR [A.3.3]
18.	4 and 16 and 17
19.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	((combin* or multi*) adj3 (facet* or interven* or treat* or therap* or approach* or manag* or program*)):ti,ab.
6.	(package* or bundle* or pathway*):ti,ab.
7.	(multifacet* or multimod* or multidisc*):ti,ab.
8.	(combin* adj2 psych* adj2 physical*):ti,ab.
9.	(pain adj2 program*):ti,ab.
10.	(function* adj2 (restor* or recover*)):ti,ab.
11.	workplace/
12.	return to work/
13.	(work* adj3 (modification* or modify or program* or train* or therap* or treat* or exercise* or intervention*)):ti,ab.
14.	interdisc*:ti,ab.
15.	or/5-14
16.	Study filters RCT [A.3.2] or SR [A.3.3]
17.	4 and 15 and 16
18.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	((combin* or multi*) near/3 (facet* or interven* or treat* or therap* or approach* or manag* or program*)):ti,ab
#3.	(package* or bundle* or pathway* or multifacet* or multimod* or multidisc* or interdisc*):ti,ab
#4.	(combin* near/2 psych* near/2 physical*):ti,ab
#5.	(pain near/2 program*):ti,ab
#6.	(function* near/2 (restor* or recover*)):ti,ab
#7.	[mh workplace]
#8.	[mh "return to work"]
#9.	(work* near/3 (modification* or modify or program* or train* or therap* or treat* or exercise* or intervention*)):ti,ab
#10.	[mh "combined modality therapy"]
#11.	{or #2-#10}
#12.	#1 and #11
#13.	See Table 1 for date parameters

AMED search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	((combin* or multi*) adj3 (facet* or interven* or treat* or therap* or approach* or manag* or program*)):ti,ab.
6.	(package* or bundle* or pathway*):ti,ab.
7.	(multifacet* or multimod* or multidisc*):ti,ab.

8.	(combin* adj2 psych* adj2 physical*).ti,ab.
9.	(pain adj2 program*).ti,ab.
10.	(function* adj2 (restor* or recover*)).ti,ab.
11.	workplace/
12.	(work* adj3 (modification* or modify or program* or train* or therap* or treat* or exercise* or intervention*)).ti,ab.
13.	interdisc*.ti,ab.
14.	combined modality therapy/
15.	or/5-14
16.	Study filters RCT [A.3.2] or SR [A.3.3]
17.	4 and 15 and 16
18.	See Table 1 for date parameters

CINAHL search terms

S1.	Standard lower back pain population [A.1.2]
S2.	Excluded study designs and publication types [A.1.3.1]
S3.	1 not 2
S4.	Limit 3 to English language
S5.	(mh "combined modality therapy")
S6.	((combin* or multi*) n3 (facet* or interven* or treat* or therap* or approach* or manag* or program*))
S7.	(package* or bundle* or pathway* or multifacet* or multimod* or multidisc* or interdisc*)
S8.	(pain n2 program*)
S9.	(function* n2 (restor* or recover*))
S10.	(work* n3 (modification* or modify or program* or train* or therap* or treat* or exercise* or intervention*))
S11.	(mh "work environment")
S12.	(mh "job re-entry")
S13.	S5 or S6 or S7 or S8 or S9 or S10 or S11 or S12
S14.	S4 and S13
S15.	See Table 1 for date parameters

PsycINFO (Ovid) search terms

1.	Standard lower back pain population [A.1.2]
2.	Limit 1 to English language
3.	interdisciplinary treatment approach/
4.	multimodal treatment approach/
5.	((combin* or multi*) adj3 (facet* or interven* or treat* or therap* or approach* or manag* or program*)).ti,ab.
6.	(package* or bundle* or pathway*).ti,ab.
7.	(multifacet* or multimod* or multidisc*).ti,ab.
8.	interdisc*.ti,ab.
9.	(combin* adj2 psych* adj2 physical*).ti,ab.
10.	(pain adj2 program*).ti,ab.
11.	(function* adj2 (restor* or recover*)).ti,ab.
12.	(work* adj3 (modification* or modify or program* or train* or therap* or treat* or exercise* or intervention*)).ti,ab.

13.	or/3-12
14.	2 and 13
15.	See Table 1 for date parameters

PsycINFO search terms (ProQuest)

S1.	Standard lower back pain population [A.1.2]
S2.	Limit S1 to English language
S3.	((su.exact("interdisciplinary treatment approach") or su.exact("multimodal treatment approach")) or ti,ab((combin* or multi*) near/3 (facet* or interven* or treat* or therap* or approach* or manag* or program*)) or (ti,ab(package* or bundle* or pathway*) or ti,ab(multifacet* or multimod* or multidisc*) or ti,ab(interdisc*) or ti,ab(combin* near/2 psych* near/2 physical*)) or (ti,ab(pain near/2 program*) or ti,ab(function* near/2 (restor* or recover*)) or ti,ab(work* near/3 (modification* or modify or program* or train* or therap* or treat* or exercise* or intervention*))))
S4.	S2 and S3
S5.	See Table 1 for date parameters

A.1.4.6 Non-invasive interventions: exercise interventions

- What is the clinical and cost effectiveness of non-invasive interventions in the management of non-specific LBP and sciatica?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp exercise/
6.	exp exercise therapy/
7.	exp "physical education and training"/
8.	(pilates or yoga or mckenzie or feldenkrais or swim* or walk* or run* or jog* or treadmill* or tread mill*).ti,ab.
9.	(stretch* adj3 (active* or passive* or relax* or static* or dynamic* or gentl* or ballistic* or force* or isometric or technique* or exercis* or therap*)).ti,ab.
10.	(aerobic* adj (exercise* or train* or therap*)).ti,ab.
11.	((corrective* or biomechanic*) adj (exercise* or train* or therap*)).ti,ab.
12.	(biomechanic* adj (method* or course*)).ti,ab.
13.	((strength* or stabil* or program* or train* or therap* or technique* or treat*) adj3 exercise*).ti,ab.
14.	(fitness* adj3 (program* or train* or therap*)).ti,ab.
15.	(tai ji or tai chi or taichi or taiji or taijiquan).ti,ab.
16.	(qigong or ch'i k#ng or ch'i g#ng or chi k#ng or chi g#ng or qi k#ng or qi g#ng).ti,ab.
17.	core stability.ti,ab.
18.	yoga/
19.	qigong/
20.	tai ji/
21.	exercise movement techniques/
22.	exp hydrotherapy/
23.	exp balneology/

24.	(balneology or balneotherap*).ti,ab.
25.	((water* or bath* or pool or pools or shower* or underwater* or spa or spas or aqua*) adj2 (exercise* or train* or therap* or treat* or manag*)).ti,ab.
26.	(hydrotherap* or hydro-therap*).ti,ab.
27.	or/5-26
28.	Study filters RCT [A.1.3.2] or SR [A.1.3.3] or OBS [A.1.3.6]
29.	4 and 27 and 28
30.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp *exercise/
6.	exp *kinesiotherapy/
7.	exp *physical education/
8.	*yoga/
9.	*tai chi/
10.	(qigong or ch'i k#ng or ch'i g#ng or chi k#ng or chi g#ng or qi k#ng or qi g#ng).ti,ab.
11.	feldenkrais method/
12.	pilates/
13.	*walking/
14.	*running/
15.	*stretching/
16.	*jogging/
17.	*treadmill/
18.	(pilates or yoga or mckenzie or feldenkrais or swim* or walk* or run* or jog* or treadmill* or tread mill*).ti,ab.
19.	(stretch* adj3 (active* or passive* or relax* or static* or dynamic* or gentl* or ballistic* or force* or isometric or technique* or exercis* or therap*)).ti,ab.
20.	(aerobic* adj (exercise* or train* or therap*)).ti,ab.
21.	((corrective* or biomechanic*) adj (exercise* or train* or therap*)).ti,ab.
22.	(biomechanic* adj (method* or course*)).ti,ab.
23.	((strength* or stabil* or program* or train* or therap* or technique* or treat*) adj3 exercise*).ti,ab.
24.	(fitness* adj3 (program* or train* or therap*)).ti,ab.
25.	(tai ji or tai chi or taichi or taiji or taijiquan).ti,ab.
26.	core stability.ti,ab.
27.	exp *balneotherapy/
28.	(balneology or balneotherap*).ti,ab.
29.	((water* or bath* or pool or pools or shower* or underwater* or spa or spas or aqua*) adj2 (exercise* or train* or therap* or treat* or manag*)).ti,ab.
30.	(hydrotherap* or hydro-therap*).ti,ab.
31.	or/5-31
32.	Study filters RCT [A.1.3.2] or SR [A.1.3.3] or OBS [A.1.3.6]
33.	4 and 31 and 32
34.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	[mh exercise]
#3.	[mh "exercise therapy"]
#4.	[mh "physical education and training"]
#5.	[mh yoga]
#6.	[mh qigong]
#7.	[mh "tai ji"]
#8.	[mh "exercise movement techniques"]
#9.	(pilates or yoga or mckenzie or feldenkrais or swim* or walk* or run* or jog* or treadmill* or tread mill*):ti,ab
#10.	(stretch* near/3 (active* or passive* or relax* or static* or dynamic* or gentl* or ballistic* or force* or isometric or technique* or exercis* or therap*)):ti,ab
#11.	(aerobic* near (exercise* or train* or therap*)):ti,ab
#12.	((corrective* or biomechanic*) near (exercise* or train* or therap*)):ti,ab
#13.	(biomechanic* near (method* or course*)):ti,ab
#14.	((strength* or stabil* or program* or train* or therap* or technique* or treat*) near/3 exercise*):ti,ab
#15.	(fitness* near/3 (program* or train* or therap*)):ti,ab
#16.	(tai ji or tai chi or taichi or taiji or taijiquan):ti,ab
#17.	(qigong or ch'i k?ng or ch'i g?ng or chi k?ng or chi g?ng or qi k?ng or qi g?ng):ti,ab
#18.	core stability:ti,ab
#19.	(balneology or balneotherap* or hydrotherap* or hydro-therap*):ti,ab
#20.	((water* or bath* or pool or pools or shower* or underwater* or spa or spas or aqua*) near/2 (exercise* or train* or therap* or treat* or manag*)):ti,ab
#21.	{or #2-#20}
#22.	#1 and #21
#23.	See Table 1 for date parameters

AMED search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	(pilates or yoga or mckenzie or feldenkrais or swim* or walk* or run* or jog* or treadmill* or tread mill*):ti,ab.
6.	(stretch* adj3 (active* or passive* or relax* or static* or dynamic* or gentl* or ballistic* or force* or isometric or technique* or exercis* or therap*)):ti,ab.
7.	(aerobic* adj (exercise* or train* or therap*)):ti,ab.
8.	((corrective* or biomechanic*) adj (exercise* or train* or therap*)):ti,ab.
9.	(biomechanic* adj (method* or course*)):ti,ab.
10.	((strength* or stabil* or program* or train* or therap* or technique* or treat*) adj3 exercise*):ti,ab.
11.	(fitness* adj3 (program* or train* or therap*)):ti,ab.
12.	(tai ji or tai chi or taichi or taiji or taijiquan):ti,ab.
13.	(qigong or ch'i k#ng or ch'i g#ng or chi k#ng or chi g#ng or qi k#ng or qi g#ng):ti,ab.
14.	core stability.ti,ab.

15.	exp exercise/
16.	exp exercise therapy/
17.	exp physical education/
18.	yoga/
19.	exp tai chi/
20.	qigong/
21.	feldenkrais technique/
22.	swimming/
23.	jogging/
24.	walking/
25.	running/
26.	exp hydrotherapy/
27.	(balneology or balneotherap*).ti,ab.
28.	(hydrotherap* or hydro-therap*).ti,ab.
29.	((water* or bath* or pool or pools or shower* or underwater* or spa or spas or aqua*) adj2 (exercise* or train* or therap* or treat* or manag*)).ti,ab.
30.	or/5-29
31.	Study filters RCT [A.1.3.2] or SR [A.1.3.3]
32.	4 and 30 and 31
33.	See Table 1 for date parameters

CINAHL search terms

S1.	Standard lower back pain population [A.1.2]
S2.	Excluded study designs and publication types [A.1.3.1]
S3.	1 not 2
S4.	Limit 3 to English language
S5.	(pilates or yoga or mckenzie or feldenkrais or swim* or walk* or run* or jog* or treadmill* or tread mill*)
S6.	(stretch* n3 (active* or passive* or relax* or static* or dynamic* or gentl* or ballistic* or force* or isometric or technique* or exercis* or therap*))
S7.	(aerobic* n1 (exercise* or train* or therap*))
S8.	((corrective* or biomechanic*) n1 (exercise* or train* or therap*))
S9.	(biomechanic* n1 (method* or course*))
S10.	((strength* or stabil* or program* or train* or therap* or technique* or treat*) n3 exercise*)
S11.	(fitness* n3 (program* or train* or therap*))
S12.	(tai ji or tai chi or taichi or taiji or taijiquan)
S13.	(qigong or ch'i k?ng or ch'i g?ng or chi k?ng or chi g?ng or qi k?ng or qi g?ng)
S14.	core stability
S15.	(mh "exercise+")
S16.	(mh "therapeutic exercise+")
S17.	(mh "physical education and training")
S18.	(mh "feldenkrais method")
S19.	(mh "hydrotherapy+")
S20.	(mh "balneology")
S21.	balneology or balneotherap* or hydrotherap* or hydro-therap*
S22.	((water* or bath* or pool or pools or shower* or underwater* or spa or spas or

	aqua*) n2 (exercise* or train* or therap* or treat* or manag*)
S23.	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
S24.	S4 and S23
S25.	See Table 1 for date parameters

A.1.4.7 Non-invasive interventions: postural therapies

- What is the clinical and cost effectiveness of non-invasive interventions in the management of non-specific LBP and sciatica?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	posture/
6.	postural balance/
7.	(postur* adj2 (balanc* or train* or therap* or treat* or educat* or reeducat* or exercis* or stabili* or stable or fitness or strength*)):ti,ab.
8.	alexander technique*.ti,ab.
9.	or/5-8
10.	Study filters RCT [A.1.3.2] or SR [A.1.3.3] or OBS [A.1.3.6]
11.	4 and 9 and 10
12.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	alexander technique/
6.	*body posture/
7.	*body equilibrium/
8.	(postur* adj2 (balanc* or train* or therap* or treat* or educat* or reeducat* or exercis* or stabili* or stable or fitness or strength*)):ti,ab.
9.	alexander technique*.ti,ab.
10.	or/5-9
11.	Study filters RCT [A.1.3.2] or SR [A.1.3.3] or OBS [A.1.3.6]
12.	4 and 10 and 11
13.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	posture:kw
#3.	(postur* near/2 (balanc* or train* or therap* or treat* or educat* or reeducat* or exercis* or stabili* or stable or fitness or strength*)):ti,ab,kw
#4.	alexander technique*:ti,ab,kw
#5.	{or #2-#4}

#6.	#1 and #5
#7.	See Table 1 for date parameters

AMED search terms

1.	Standard lower back pain population [A.1.2]
2.	Limit 1 to English language
3.	alexander technique/
4.	postural therapies/
5.	posture/
6.	alexander technique*.ti,ab.
7.	(postur* adj2 (balanc* or train* or therap* or treat* or educat* or reeducat* or exercis* or stabili* or stable or fitness or strength*)).ti,ab.
8.	or/3-7
9.	2 and 8
10.	See Table 1 for date parameters

CINAHL search terms

S1.	Standard lower back pain population [A.1.2]
S2.	Limit 1 to English language
S3.	(mh "posture")
S4.	(mh "alexander technique")
S5.	(mh "balance, postural")
S6.	postur* n2 (balanc* or train* or therap* or treat* or educat* or reeducat* or exercis* or stabili* or stable or fitness or strength*)
S7.	alexander technique*
S8.	S3 or S4 or S5 or S6 or S7
S9.	S2 and S8
S10.	See Table 1 for date parameters

A.1.4.8 Non-invasive interventions: orthotics and appliances

What is the clinical and cost effectiveness of non-invasive interventions in the management of non-specific low back pain and sciatica?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp orthotic devices/
6.	((foot or feet or insole* or shoe*) adj2 orthotic*).ti,ab.
7.	((foot or feet) adj2 (orthos* or support*)).ti,ab.
8.	(belt* or corset*).ti,ab.
9.	((back* or lumbosacral or lumbo-sacral or lumbar) adj2 (device* or support* or orthos* or orthotic* or brace*)).ti,ab.
10.	or/5-9
11.	Study filters RCT [A.1.3.2] or SR [A.1.3.3] or OBS [A.1.3.6]
12.	4 and 10 and 11

13.	See Table 1 for date parameters
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Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp *orthosis/
6.	((foot or feet or insole* or shoe*) adj2 orthotic*).ti,ab.
7.	((foot or feet) adj2 (orthos* or support*)),ti,ab.
8.	(belt* or corset*).ti,ab.
9.	((back* or lumbosacral or lumbo-sacral or lumbar) adj2 (device* or support* or orthos* or orthotic*)),ti,ab.
10.	or/5-9
11.	Study filters RCT [A.1.3.2] or SR [A.1.3.3] or OBS [A.1.3.6]
12.	4 and 10 and 11
13.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	[mh "orthotic devices"]
#3.	((foot or feet or insole* or shoe*) near/2 orthotic*):ti,ab
#4.	((foot or feet) near/2 (orthos* or support*)):ti,ab
#5.	(belt* or corset*):ti,ab
#6.	((back* or lumbosacral or lumbo-sacral or lumbar) near/2 (device* or support* or orthos* or orthotic* or brace*)):ti,ab
#7.	{or #2-#6}
#8.	#1 and #7
#9.	See Table 1 for date parameters

AMED search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp orthotic devices/
6.	((foot or feet or insole* or shoe*) adj2 orthotic*).ti,ab.
7.	((foot or feet) adj2 (orthos* or support*)),ti,ab.
8.	(belt* or corset*).ti,ab.
9.	((back* or lumbosacral or lumbo-sacral or lumbar) adj2 (device* or support* or orthos* or orthotic*)),ti,ab.
10.	or/5-9
11.	Study filters RCT [A.1.3.2] or SR [A.1.3.3]
12.	4 and 10 and 11
13.	See Table 1 for date parameters

CINAHL search terms

S1.	Standard lower back pain population [A.1.2]
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S2.	Excluded study designs and publication types [A.1.3.1]
S3.	1 not 2
S4.	Limit 3 to English language
S5.	(mh "orthoses+")
S6.	((foot or feet or insole* or shoe*) n2 orthotic*)
S7.	((foot or feet) n2 (orthos* or support*))
S8.	(belt* or corset*)
S9.	((back* or lumbosacral or lumbo-sacral or lumbar) n2 (device* or support* or orthos* or orthotic*))
S10.	S5 or S6 or S7 or S8 or S9
S11.	S4 and S10
S12.	See Table 1 for date parameters

A.1.4.9 Non-invasive interventions: manual therapies

What is the clinical and cost effectiveness of non-invasive interventions in the management of non-specific LBP and sciatica?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp musculoskeletal manipulations/
6.	physical therapy modalities/
7.	physiotherap*.ti,ab.
8.	(massage* or rolfing).ti,ab.
9.	(acupressure or shiat#u or chih ya or zhi ya).ti,ab.
10.	(musculoskeletal adj manipulation*).ti,ab.
11.	((manual or manipulat* or mobili*) adj3 (therap* or treat*)).ti,ab.
12.	((osteopath* or chiropract* or manual* or ortho*) adj3 (manipulat* or mobili#ation or adjust*)).ti,ab.
13.	((spine or spinal or lumbosacral or lumbo-sacral or lumbar) adj3 (manipulat* or mobili#ation or adjust*)).ti,ab.
14.	somatic dysfunct*.ti,ab.
15.	(bone sett* or bone-sett* or bonesett*).ti,ab.
16.	traction/
17.	traction*.ti,ab.
18.	or/5-17
19.	Study filters RCT [A.1.3.2] or SR [A.1.3.3] or OBS [A.1.3.6]
20.	4 and 18 and 19
21.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language

5.	exp *manipulative medicine/
6.	exp *soft tissue/
7.	exp *physiotherapy/
8.	physiotherap*.ti,ab.
9.	(massage* or rolfing).ti,ab.
10.	(acupressure or shiat#u or chih ya or zhi ya).ti,ab.
11.	(musculoskeletal adj manipulation*).ti,ab.
12.	((manual or manipul* or mobili*) adj3 (therap* or treat*)).ti,ab.
13.	((osteopath* or chiropract* or manual* or ortho*) adj3 (manipulat* or mobili#ation or adjust*)).ti,ab.
14.	((spine or spinal or lumbosacral or lumbo-sacral or lumbar) adj3 (manipulat* or mobili#ation or adjust*)).ti,ab.
15.	somatic dysfunct*.ti,ab.
16.	(bone sett* or bone-sett* or bonesett*).ti,ab.
17.	traction/
18.	traction*.ti,ab.
19.	or/5-18
20.	Study filters RCT [A.1.3.2] or SR [A.1.3.3] or OBS [A.1.3.6]
21.	4 and 19 and 20
22.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	MeSH descriptor: [musculoskeletal manipulations] explode all trees
#3.	MeSH descriptor: [traction] explode all trees
#4.	MeSH descriptor: [physical therapy modalities] this term only
#5.	physiotherap*.ti,ab
#6.	(massage* or rolfing):ti,ab
#7.	(acupressure or shiat?u or chih ya or zhi ya):ti,ab
#8.	(musculoskeletal near manipulation*):ti,ab
#9.	((manual or manipul* or mobili*) near/3 (therap* or treat*)):ti,ab
#10.	((osteopath* or chiropract* or manual* or ortho*) near/3 (manipulat* or mobili?ation or adjust*)):ti,ab
#11.	((spine or spinal or lumbosacral or lumbo-sacral or lumbar) near/3 (manipulat* or mobili?ation or adjust*))
#12.	somatic dysfunct*.ti,ab.
#13.	(bone sett* or bone-sett* or bonesett*) .ti,ab.
#14.	{or #2-#13}
#15.	#1 and #14
#16.	See Table 1 for date parameters

AMED search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp musculoskeletal manipulations/

6.	traction/
7.	massage/ or exp mobilisation/
8.	soft tissue/
9.	exp physical therapy modalities/
10.	physiotherap*.ti,ab.
11.	(massage* or rolfing).ti,ab.
12.	(acupressure or shiat#u or chih ya or zhi ya).ti,ab.
13.	(musculoskeletal adj manipulation*).ti,ab.
14.	((manual or manipul* or mobili*) adj3 (therap* or treat*)).ti,ab.
15.	((osteopath* or chiropract* or manual* or ortho*) adj3 (manipulat* or mobili#ation or adjust*)).ti,ab.
16.	((spine or spinal or lumbosacral or lumbo-sacral or lumbar) adj3 (manipulat* or mobili#ation or adjust*)).ti,ab.
17.	somatic dysfunct*.ti,ab.
18.	(bone sett* or bone-sett* or bonesett*).ti,ab.
19.	traction*.ti,ab.
20.	or/5-19
21.	Study filters RCT [A.1.3.2] or SR [A.1.3.3]
22.	4 and 20 and 21
23.	See Table 1 for date parameters

CINAHL search terms

S1.	Standard lower back pain population [A.1.2]
S2.	Limit 1 to English language
S3.	(mh "manipulation, chiropractic") or (mh "manipulation, orthopedic") or (mh "manipulation, osteopathic")
S4.	(mh "joint mobilization")
S5.	(mh "manual therapy+")
S6.	(mh "physical therapy")
S7.	(mh "massage+")
S8.	(mh "traction")
S9.	physiotherap*
S10.	massage* or rolfing
S11.	(acupressure or shiat?u or chih ya or zhi ya)
S12.	(musculoskeletal n1 manipulation*)
S13.	((manual or manipul* or mobili*) n3 (therap* or treat*))
S14.	((osteopath* or chiropract* or manual* or ortho*) n3 (manipulat* or mobili?ation or adjust*))
S15.	((spine or spinal or lumbosacral or lumbo-sacral or lumbar) n3 (manipulat* or mobili?ation or adjust*))
S16.	somatic dysfunct*
S17.	(bone sett* or bone-sett* or bonesett*)
S18.	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 17
S19.	S2 and 18
S20.	See Table 1 for date parameters

A.1.4.10 Non-invasive interventions: acupuncture

- What is the clinical and cost effectiveness of non-invasive interventions in the management of non-specific LBP and sciatica?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp acupuncture therapy/
6.	(acupuncture or electroacupuncture).ti,ab.
7.	5 or 6
8.	Study filters RCT [A.3.2] or SR [A.3.3]
9.	4 and 7 and 8
10.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp acupuncture/
6.	(acupuncture or electroacupuncture).ti,ab.
7.	5 or 6
8.	Study filters RCT [A.3.2] or SR [A.3.3]
9.	4 and 7 and 8
10.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	(acupuncture or electroacupuncture or electro-acupuncture):ti,ab,kw
#3.	#1 and #2
#4.	See Table 1 for date parameters

AMED search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp acupuncture therapy/
6.	(acupuncture or electroacupuncture).ti,ab.
7.	5 or 6
8.	Study filters RCT [A.3.2] or SR [A.3.3]
9.	4 and 7 and 8
10.	See Table 1 for date parameters

CINAHL search terms

S1.	Standard lower back pain population [A.1.2]
-----	---

S2.	Excluded study designs and publication types [A.1.3.1]
S3.	1 not 2
S4.	Limit 3 to English language
S5.	(mh "acupuncture+")
S6.	acupuncture or electroacupuncture
S7.	S5 or S6
S8.	S4 and S7
S9.	See Table 1 for date parameters

A.1.4.11 Non-invasive interventions: electrotherapy

- What is the clinical and cost effectiveness of non-invasive interventions in the management of non-specific LBP and sciatica?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	transcutaneous electric nerve stimulation/
6.	(tens or pens).ti,ab.
7.	(electroanalges* or electro analges*).ti,ab.
8.	electric stimulation therapy/
9.	electrotherap*.ti,ab.
10.	((transcutaneous or percutaneous or cutaneous or transderm*) adj3 (stimulat* or electr*).ti,ab.
11.	electrostimulat*.ti,ab.
12.	(interferential adj2 current*).ti,ab.
13.	((electric* or electro or interferential) adj2 (stimulat* or therap*).ti,ab.
14.	laser therapy, low-level/
15.	(laser adj2 (therap* or treat* or phototherap* or irradiat* or biostimulat* or stimulat*).ti,ab.
16.	ultrasonic therapy/
17.	((ultrasound or ultrasonic) adj3 (contin* or therap* or treat* or stimulat*).ti,ab.
18.	or/5-17
19.	Study filters RCT [A.1.3.2] or SR [A.1.3.3] or OBS [A.1.3.6]
20.	4 and 18 and 19
21.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	transcutaneous nerve stimulation/
6.	electrostimulation therapy/
7.	low level laser therapy/
8.	ultrasound therapy/

9.	electroanalgesia/
10.	(tens or pens).ti,ab.
11.	(electroanalges* or electro analges*).ti,ab.
12.	electrotherap*.ti,ab.
13.	((transcutaneous or percutaneous or cutaneous or transderm*) adj3 (stimulat* or electr*).ti,ab.
14.	electrostimulat*.ti,ab.
15.	(interferential adj2 current*).ti,ab.
16.	((electric* or electro or interferential) adj2 (stimulat* or therap*).ti,ab.
17.	(laser adj2 (therap* or treat* or phototherap* or irradiat* or biostimulat* or stimulat*).ti,ab.
18.	((ultrasound or ultrasonic) adj3 (contin* or therap* or treat* or stimulat*).ti,ab.
19.	or/5-18
20.	Study filters RCT [A.1.3.2] or SR [A.1.3.3] or OBS [A.1.3.6]
21.	4 and 19 and 20
22.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	(tens or pens or electroanalges* or electro analges* or electrotherap* or electrostimulat*):ti,ab,kw
#3.	(interferential near/2 current*):ti,ab,kw
#4.	((electric* or electro or interferential) near/2 (stimulat* or therap*)):ti,ab,kw
#5.	(laser near/2 (therap* or treat* or phototherap* or irradiat* or biostimulat* or stimulat*)):ti,ab,kw
#6.	((ultrasound or ultrasonic) near/3 (contin* or therap* or treat* or stimulat*)):ti,ab,kw
#7.	((transcutaneous or percutaneous or cutaneous or transderm*) near/3 (stimulat* or electr*)):ti,ab,kw
#8.	{or #2-#7}
#9.	#1 and #8
#10.	See Table 1 for date parameters

CINAHL search terms

S1.	Standard lower back pain population [A.1.2]
S2.	Excluded study designs and publication types [A.1.3.1]
S3.	1 not 2
S4.	Limit 3 to English language
S5.	tens or pens or electroanalges* or electro analges* or electrotherap* or electrostimulat*
S6.	((transcutaneous or percutaneous or cutaneous or transderm*) n3 (stimulat* or electr*))
S7.	(interferential n2 current*)
S8.	((electric* or electro or interferential) n2 (stimulat* or therap*))
S9.	(laser n2 (therap* or treat* or phototherap* or irradiat* or biostimulat* or stimulat*))
S10.	((ultrasound or ultrasonic) n3 (contin* or therap* or treat* or stimulat*))
S11.	(mh "transcutaneous electric nerve stimulation")
S12.	(mh "electric stimulation")

S13.	(mh "electrotherapy")
S14.	(mh "laser therapy+")
S15.	(mh "ultrasonic therapy")
S16.	S5 or S6 or S7 or S8 or S9 or S10 or S11 or S12 or S13 or S14 or S15
S17.	S4 and S16
S18.	See Table 1 for date parameters

A.1.4.12 Non-invasive interventions: psychological interventions (RCTs and SRs)

- What is the clinical and cost effectiveness of non-invasive interventions in the management of non-specific LBP and sciatica?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp cognitive therapy/
6.	behavior therapy/
7.	((acceptance* or commitment*) adj2 (therap* or psychotherap*)).ti,ab.
8.	(cbt or mindful*).ti,ab.
9.	((cognitive or cognition or behavio?*r*) adj2 (therap* or psychotherap*)).ti,ab.
10.	(psych* adj2 (therap* or treatment*)).ti,ab.
11.	or/5-10
12.	Study filters RCT [A.1.3.2] or SR [A.1.3.3]
13.	4 and 11 and 12
14.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp *cognitive therapy/
6.	*behavior therapy/
7.	*mindfulness/
8.	((acceptance* or commitment*) adj2 (therap* or psychotherap*)).ti,ab.
9.	(cbt or mindful*).ti,ab.
10.	((cognitive or cognition or behavio?*r*) adj2 (therap* or psychotherap*)).ti,ab.
11.	(psych* adj2 (therap* or treatment*)).ti,ab.
12.	or/5-11
13.	Study filters RCT [A.1.3.2] or SR [A.1.3.3]
14.	4 and 12 and 13
15.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	[mh "cognitive therapy"]

#3.	[mh "behavior therapy"]
#4.	((acceptance* or commitment*) near/2 (therap* or psychotherap*)):ti,ab
#5.	(cbt or mindful*):ti,ab
#6.	((cognitive or cognition or behavio?r*) near/2 (therap* or psychotherap*)):ti,ab
#7.	(psych* near/2 (therap* or treatment*)):ti,ab
#8.	{or #2-#7}
#9.	#1 and #8
#10.	See Table 1 for date parameters

PsycINFO search terms

1.	Standard lower back pain population [A.1.2]
2.	Limit 1 to English language
3.	exp cognitive behavior therapy/
4.	cognitive therapy/
5.	behavior therapy/
6.	mindfulness/
7.	((acceptance* or commitment*) adj2 (therap* or psychotherap*)):ti,ab.
8.	(cbt or mindful*).ti,ab.
9.	((cognitive or cognition or behavio?r*) adj2 (therap* or psychotherap*)):ti,ab.
10.	(psych* adj2 (therap* or treatment*)):ti,ab.
11.	or/3-10
12.	2 and 11
13.	See Table 1 for date parameters

PsycINFO search terms (ProQuest)

S1.	Standard lower back pain population [A.1.2]
S2.	su.exact.explode("cognitive behavior therapy") or su.exact("cognitive therapy") or su.exact("behavior therapy") or su.exact("mindfulness") or ti,ab((acceptance* or commitment*) near/2 (therap* or psychotherap*)) or ti,ab(cbt or mindful*) or ti,ab((cognitive or cognition or behavio*r*) near/2 (therap* or psychotherap*)) or ti,ab(psych* near/2 (therap* or treatment*))
S3.	S1 and S2
S4.	See Table 1 for date parameters

A.1.4.13 Non-invasive interventions: psychological interventions (observational studies)

- What is the clinical and cost effectiveness of non-invasive interventions in the management of non-specific LBP and sciatica?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	mindfulness/
6.	"acceptance and commitment therapy"/
7.	((acceptance* or commitment*) adj2 (therap* or psychotherap*)):ti,ab.
8.	mindful*.ti,ab.
9.	or/5-8

10.	Study filter OBS [A.1.3.6]
11.	4 and 9 and 10
12.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	"acceptance and commitment therapy"/
6.	mindfulness/
7.	((acceptance* or commitment*) adj2 (therap* or psychotherap*)).ti,ab.
8.	mindful*.ti,ab.
9.	or/5-8
10.	Study filter OBS [A.1.3.6]
11.	4 and 9 and 10
12.	See Table 1 for date parameters

PsycINFO search terms

1.	Standard lower back pain population [A.1.2]
2.	Limit 1 to English language
3.	mindfulness/
4.	((acceptance* or commitment*) adj2 (therap* or psychotherap*)).ti,ab.
5.	"acceptance and commitment therapy"/
6.	mindful*.ti,ab.
7.	or/3-6
8.	2 and 8
9.	See Table 1 for date parameters

PsycINFO search terms (ProQuest)

S1.	standard lower back pain population [A.1.2]
S2.	su.exact("mindfulness") or ti,ab((acceptance* or commitment*) near/2 (therap* or psychotherap*)) or su.exact("acceptance and commitment therapy") or ti,ab(mindful*)
S3.	S1 and S2
S4.	See Table 1 for date parameters

A.1.4.14 Non-invasive interventions: pharmacological treatment (RCTs and SRs)

- Pharmacological treatment (oral/sublingual, rectal, intra-muscular and transdermal but not intravenous)

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	analgesics/
6.	analgesic*.ti,ab.

7.	((antiinflamm* or anti-inflamm*) adj2 (non- steroid* or nonsteroid*)).ti,ab.
8.	((cox2 or cox-2 or coxii or cox-ii) adj2 inhibitor*).ti,ab.
9.	((cyclo-oxygenase2 or cyclo-oxygenase-2 or cyclooxygenase-2 or cyclooxygenase2) adj2 inhibitor*).ti,ab.
10.	((cyclo-oxygenase-ii or cyclo-oxygenaseii or cyclooxygenase-ii or cyclooxygenaseii) adj2 inhibitor*).ti,ab.
11.	exp anti-inflammatory agents, non-steroidal/
12.	exp cyclooxygenase 2 inhibitors/
13.	nsaid*.ti,ab.
14.	acetaminophen/
15.	(acetaminophen or paracetamol).ti,ab.
16.	exp analgesics, opioid/
17.	fentanyl.ti,ab.
18.	hydrocodone.ti,ab.
19.	hydromorphone.ti,ab.
20.	levorphanol.ti,ab.
21.	meperidine.ti,ab.
22.	morphine.ti,ab.
23.	oxycodone.ti,ab.
24.	oxymorphone.ti,ab.
25.	pentazocine.ti,ab.
26.	propoxyphene.ti,ab.
27.	sufentanil.ti,ab.
28.	tramadol.ti,ab.
29.	codeine.ti,ab.
30.	tapentadol.ti,ab.
31.	acetylsalicyl*.ti,ab.
32.	carbasalate calcium.ti,ab.
33.	diflunisal.ti,ab.
34.	aceclofenac.ti,ab.
35.	alclofenac.ti,ab.
36.	diclofenac.ti,ab.
37.	indometacin.ti,ab.
38.	sulindac.ti,ab.
39.	meloxicam.ti,ab.
40.	piroxicam.ti,ab.
41.	dexibuprofen.ti,ab.
42.	dexketoprofen.ti,ab.
43.	fenoprofen.ti,ab.
44.	flurbiprofen.ti,ab.
45.	ibuprofen.ti,ab.
46.	ketoprofen.ti,ab.
47.	naproxen.ti,ab.
48.	tiapro*.ti,ab.
49.	metamizol.ti,ab.
50.	phenylbutazone.ti,ab.

51.	phenazone.ti,ab.
52.	propyphenazone.ti,ab.
53.	celecoxib.ti,ab.
54.	etoricoxib.ti,ab.
55.	nabumeton.ti,ab.
56.	parecoxib.ti,ab.
57.	exp muscle relaxants, central/
58.	muscle relaxant*.ti,ab.
59.	diazepam.ti,ab.
60.	tetrazepam.ti,ab.
61.	cyclobenzaprine.ti,ab.
62.	carisoprodol.ti,ab.
63.	chlorzoxazone.ti,ab.
64.	meprobramate.ti,ab.
65.	methocarbamol.ti,ab.
66.	metaxalone.ti,ab.
67.	orphenadrine.ti,ab.
68.	tizanidine.ti,ab.
69.	flupirtine.ti,ab.
70.	baclofen.ti,ab.
71.	dantrolene.ti,ab.
72.	exp antidepressive agents/
73.	(antidepress* or anti-depress*).ti,ab.
74.	serotonin norepinephrine reuptake inhibitor*.ti,ab.
75.	selective serotonin reuptake inhibitor*.ti,ab.
76.	(ssri or snri).ti,ab.
77.	amoxapine.ti,ab.
78.	bupropion.ti,ab.
79.	citalopram.ti,ab.
80.	fluoxetine.ti,ab.
81.	fluvoxamine.ti,ab.
82.	maprotiline.ti,ab.
83.	mianserin.ti,ab.
84.	paroxetine.ti,ab.
85.	quipazine.ti,ab.
86.	ritanserin.ti,ab.
87.	sulpiride.ti,ab.
88.	trazodone.ti,ab.
89.	tryptophan.ti,ab.
90.	viloxazine.ti,ab.
91.	amitriptyline.ti,ab.
92.	clomipramine.ti,ab.
93.	desipramine.ti,ab.
94.	dothiepin.ti,ab.
95.	doxepin.ti,ab.
96.	imipramine.ti,ab.

97.	iprindole.ti,ab.
98.	lofepramine.ti,ab.
99.	nortriptyline.ti,ab.
100.	opipramol.ti,ab.
101.	protriptyline.ti,ab.
102.	trimipramine.ti,ab.
103.	exp anticonvulsants/
104.	gabapentin.ti,ab.
105.	pregabalin.ti,ab.
106.	carbamazepine.ti,ab.
107.	phenytoin.ti,ab.
108.	topiramate.ti,ab.
109.	exp anti-bacterial agents/
110.	antibiotic*.ti,ab.
111.	(anti-bacterial* or antibacterial*).ti,ab.
112.	(anti-microbial* or antimicrobial*).ti,ab.
113.	(anti-mycobacterial* or antimycobacterial*).ti,ab.
114.	(bacteriocid* or bactericid*).ti,ab.
115.	exp vitamin d/
116.	vitamin d.ti,ab.
117.	or/5-116
118.	Study filters RCT [A.1.3.2] or SR [A.1.3.3]
119.	4 and 117 and 118
120.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp *analgesic agent/
6.	analgesic*.ti,ab.
7.	((antiinflamm* or anti-inflamm*) adj2 (non- steroid* or nonsteroid*)).ti,ab.
8.	((cox2 or cox-2 or coxii or cox-ii) adj2 inhibitor*).ti,ab.
9.	((cyclo-oxygenase2 or cyclo-oxygenase-2 or cyclooxygenase-2 or cyclooxygenase2) adj2 inhibitor*).ti,ab.
10.	((cyclo-oxygenase-ii or cyclo-oxygenaseii or cyclooxygenase-ii or cyclooxygenaseii) adj2 inhibitor*).ti,ab.
11.	exp *nonsteroid antiinflammatory agent/
12.	exp *cyclooxygenase 2 inhibitor/
13.	nsaid*.ti,ab.
14.	*paracetamol/
15.	(acetaminophen or paracetamol).ti,ab.
16.	exp *narcotic analgesic agent/
17.	fentanyl.ti,ab.
18.	hydrocodone.ti,ab.
19.	hydromorphone.ti,ab.

20.	levorphanol.ti,ab.
21.	meperidine.ti,ab.
22.	morphine.ti,ab.
23.	oxycodone.ti,ab.
24.	oxymorphone.ti,ab.
25.	pentazocine.ti,ab.
26.	propoxyphene.ti,ab.
27.	sufentanil.ti,ab.
28.	tramadol.ti,ab.
29.	codeine.ti,ab.
30.	tapentadol.ti,ab.
31.	acetylsalicyl*.ti,ab.
32.	carbasalate calcium.ti,ab.
33.	diflunisal.ti,ab.
34.	aceclofenac.ti,ab.
35.	alclofenac.ti,ab.
36.	diclofenac.ti,ab.
37.	indometacin.ti,ab.
38.	sulindac.ti,ab.
39.	meloxicam.ti,ab.
40.	piroxicam.ti,ab.
41.	dexibuprofen.ti,ab.
42.	dexketoprofen.ti,ab.
43.	fenoprofen.ti,ab.
44.	flurbiprofen.ti,ab.
45.	ibuprofen.ti,ab.
46.	ketoprofen.ti,ab.
47.	naproxen.ti,ab.
48.	tiapro*.ti,ab.
49.	metamizol.ti,ab.
50.	phenylbutazone.ti,ab.
51.	phenazone.ti,ab.
52.	propyphenazone.ti,ab.
53.	celecoxib.ti,ab.
54.	etoricoxib.ti,ab.
55.	nabumeton.ti,ab.
56.	parecoxib.ti,ab.
57.	exp *muscle relaxant agent/
58.	muscle relaxant*.ti,ab.
59.	diazepam.ti,ab.
60.	tetrazepam.ti,ab.
61.	cyclobenzaprine.ti,ab.
62.	carisoprodol.ti,ab.
63.	chlorzoxazone.ti,ab.
64.	meprobramate.ti,ab.
65.	methocarbamol.ti,ab.

66.	metaxalone.ti,ab.
67.	orphenadrine.ti,ab.
68.	tizanidine.ti,ab.
69.	flupirtine.ti,ab.
70.	baclofen.ti,ab.
71.	dantrolene.ti,ab.
72.	exp *antidepressant agent/
73.	(antidepress* or anti-depress*).ti,ab.
74.	serotonin norepinephrine reuptake inhibitor*.ti,ab.
75.	selective serotonin reuptake inhibitor*.ti,ab.
76.	(ssri or snri).ti,ab.
77.	amoxapine.ti,ab.
78.	bupropion.ti,ab.
79.	citalopram.ti,ab.
80.	fluoxetine.ti,ab.
81.	fluvoxamine.ti,ab.
82.	maprotiline.ti,ab.
83.	mianserin.ti,ab.
84.	paroxetine.ti,ab.
85.	quipazine.ti,ab.
86.	ritanserin.ti,ab.
87.	sulpiride.ti,ab.
88.	trazodone.ti,ab.
89.	tryptophan.ti,ab.
90.	viloxazine.ti,ab.
91.	amitriptyline.ti,ab.
92.	clomipramine.ti,ab.
93.	desipramine.ti,ab.
94.	dothiepin.ti,ab.
95.	doxepin.ti,ab.
96.	imipramine.ti,ab.
97.	iprindole.ti,ab.
98.	lofepramine.ti,ab.
99.	nortriptyline.ti,ab.
100.	opipramol.ti,ab.
101.	protriptyline.ti,ab.
102.	trimipramine.ti,ab.
103.	exp *anticonvulsive agent/
104.	gabapentin.ti,ab.
105.	pregabalin.ti,ab.
106.	carbamazepine.ti,ab.
107.	phenytoin.ti,ab.
108.	topiramate.ti,ab.
109.	exp *antiinfective agent/
110.	antibiotic*.ti,ab.
111.	(anti-bacterial* or antibacterial*).ti,ab.

112.	(anti-microbial* or antimicrobial*).ti,ab.
113.	(anti-mycobacterial* or antimycobacterial*).ti,ab.
114.	(bacteriocid* or bactericid*).ti,ab.
115.	exp *vitamin d/
116.	vitamin d.ti,ab.
117.	or/5-116
118.	Study filters RCT [A.1.3.2] or SR [A.1.3.3]
119.	4 and 117 and 118
120.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	[mh analgesics]
#3.	analgesic*:ti,ab,kw
#4.	((antiinflamm* or anti-inflamm*) near/2 (non- steroid* or nonsteroid*)):ti,ab,kw
#5.	((cox2 or cox-2 or coxii or cox-ii) near/2 inhibitor*):ti,ab,kw
#6.	((cyclo-oxygenase2 or cyclo-oxygenase-2 or cyclooxygenase-2 or cyclooxygenase2) near/2 inhibitor*):ti,ab,kw
#7.	((cyclo-oxygenase-ii or cyclo-oxygenaseii or cyclooxygenase-ii or cyclooxygenaseii) near/2 inhibitor*):ti,ab,kw
#8.	[mh "anti-inflammatory agents, non-steroidal"]
#9.	[mh "cyclooxygenase 2 inhibitors"]
#10.	nsaid*:ti,ab,kw
#11.	[mh acetaminophen]
#12.	(acetaminophen or paracetamol):ti,ab,kw
#13.	[mh "analgesics, opioid"]
#14.	(fentanyl or hydrocodone or hydromorphone or levorphanol or meperidine or morphine or oxycodone or oxymorphone or pentazocine or propoxyphene or sufentanil or tramadol or codeine or tapentadol or acetylsalicyl* or carbasalate calcium or diflunisal or aceclofenac or alclofenac or diclofenac or indometacin or sulindac or meloxicam or piroxicam or dexibuprofen or dexketoprofen or fenoprofen or flurbiprofen or ibuprofen or ketoprofen or naproxen or tiapro* or metamizol or phenylbutazone or phenazone or propyphenazone or celecoxib or etoricoxib or nabumeton or parecoxib):ti,ab,kw
#15.	[mh "muscle relaxants, central"]
#16.	muscle relaxant*:ti,ab,kw
#17.	(diazepam or tetrazepam or cyclobenzaprine or carisoprodol or chlorzoxazone or meprobramate or methocarbamol or metaxalone or orphenadrine or tizanidine or flupirtine or baclofen or dantrolene):ti,ab,kw
#18.	[mh "antidepressive agents"]
#19.	(antidepress* or anti-depress*):ti,ab,kw
#20.	serotonin norepinephrine reuptake inhibitor*:ti,ab,kw
#21.	selective serotonin reuptake inhibitor*:ti,ab,kw
#22.	(ssri or snri):ti,ab,kw
#23.	(amoxapine or bupropion or citalopram or fluoxetine or fluvoxamine or maprotiline or mianserin or paroxetine or quipazine or ritanserin or sulpiride or trazodone or tryptophan or viloxazine or amitriptyline or clomipramine or desipramine or dothiepin or doxepin or imipramine or iprindole or lofepramine or nortriptyline or opipramol or protriptyline or trimipramine):ti,ab,kw

#24.	[mh anticonvulsants]
#25.	(gabapentin or pregabalin or carbamazepine or phenytoin or topiramate):ti,ab,kw
#26.	[mh "anti-bacterial agents"]
#27.	antibiotic*:ti,ab,kw
#28.	(anti-bacterial* or antibacterial*):ti,ab,kw
#29.	(anti-microbial* or antimicrobial*):ti,ab,kw
#30.	(anti-mycobacterial* or antimycobacterial*):ti,ab,kw
#31.	(bacteriocid* or bactericid*):ti,ab,kw
#32.	[mh "vitamin d"]
#33.	vitamin d:ti,ab,kw
#34.	{or #2-#33}
#35.	#1 and #34
#36.	See Table 1 for date parameters

A.1.4.15 Non-invasive interventions: pharmacological treatment (observational studies)

- Pharmacological treatment (oral/sublingual, rectal, intra-muscular and transdermal but not intravenous)

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	acetaminophen/
6.	(acetaminophen or paracetamol).ti,ab.
7.	exp muscle relaxants, central/
8.	muscle relaxant*.ti,ab.
9.	diazepam.ti,ab.
10.	tetrazepam.ti,ab.
11.	cyclobenzaprine.ti,ab.
12.	carisoprodol.ti,ab.
13.	chlorzoxazone.ti,ab.
14.	meprobramate.ti,ab.
15.	methocarbamol.ti,ab.
16.	metaxalone.ti,ab.
17.	orphenadrine.ti,ab.
18.	tizanidine.ti,ab.
19.	flupirtine.ti,ab.
20.	baclofen.ti,ab.
21.	dantrolene.ti,ab.
22.	exp anticonvulsants/
23.	gabapentin.ti,ab.
24.	pregabalin.ti,ab.
25.	carbamazepine.ti,ab.
26.	phenytoin.ti,ab.
27.	topiramate.ti,ab.

28.	exp anti-bacterial agents/
29.	antibiotic*.ti,ab.
30.	(anti-bacterial* or antibacterial*).ti,ab.
31.	(anti-microbial* or antimicrobial*).ti,ab.
32.	(anti-mycobacterial* or antimycobacterial*).ti,ab.
33.	(bacteriocid* or bactericid*).ti,ab.
34.	exp vitamin d/
35.	vitamin d.ti,ab.
36.	or/5-35
37.	Study filter OBS [A.1.3.6]
38.	4 and 36 and 37
39.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	((cyclo-oxygenase2 or cyclo-oxygenase-2 or cyclooxygenase-2 or cyclooxygenase2) adj2 inhibitor*).ti,ab.
6.	exp *nonsteroid antiinflammatory agent/
7.	*paracetamol/
8.	(acetaminophen or paracetamol).ti,ab.
9.	exp *muscle relaxant agent/
10.	muscle relaxant*.ti,ab.
11.	diazepam.ti,ab.
12.	tetrazepam.ti,ab.
13.	cyclobenzaprine.ti,ab.
14.	carisoprodol.ti,ab.
15.	chlorzoxazone.ti,ab.
16.	meprobramate.ti,ab.
17.	methocarbamol.ti,ab.
18.	metaxalone.ti,ab.
19.	orphenadrine.ti,ab.
20.	tizanidine.ti,ab.
21.	flupirtine.ti,ab.
22.	baclofen.ti,ab.
23.	dantrolene.ti,ab.
24.	exp *anticonvulsive agent/
25.	gabapentin.ti,ab.
26.	pregabalin.ti,ab.
27.	carbamazepine.ti,ab.
28.	phenytoin.ti,ab.
29.	topiramate.ti,ab.
30.	exp *antiinfective agent/
31.	antibiotic*.ti,ab.

32.	(anti-bacterial* or antibacterial*).ti,ab.
33.	(anti-microbial* or antimicrobial*).ti,ab.
34.	(anti-mycobacterial* or antimycobacterial*).ti,ab.
35.	(bacteriocid* or bactericid*).ti,ab.
36.	exp *vitamin d/
37.	vitamin d.ti,ab.
38.	or/5-37
39.	Study filter OBS [A.1.3.6]
40.	4 and 38 and 39
41.	See Table 1 for date parameters

A.1.4.16 Invasive and surgical procedures: radiofrequency ablation

- What is the clinical and cost effectiveness of radiofrequency ablation for facet joint pain in the management of non-specific LBP?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	catheter ablation/
6.	rhizotomy/
7.	rhizotom*.ti,ab.
8.	(radiofrequency or radio frequency).ti,ab.
9.	neurotom*.ti,ab.
10.	rhizoly*.ti,ab.
11.	denervat*.ti,ab.
12.	denervation/
13.	neuroly*.ti,ab.
14.	pulsed radiofrequency treatment/
15.	chemodenervation.ti,ab.
16.	cryoablat*.ti,ab.
17.	exp ablation techniques/
18.	cryosurg*.ti,ab.
19.	ablat*.ti,ab.
20.	(catheter* adj2 (electric* or percutaneous or transvenous or cool* or cold or cryo*)).ti,ab.
21.	or/5-20
22.	(media# adj3 (branch* or nerve*)).ti,ab.
23.	(facet* or zygapophys#al* or apophyseal* or z joint*).ti,ab.
24.	zygapophyseal joint/
25.	or/22-24
26.	4 and 21 and 25
27.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
----	---

2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	radiofrequency ablation/
6.	catheter ablation/
7.	exp rhizotomy/
8.	denervation/
9.	neurolysis/
10.	ablation therapy/
11.	pulsed radiofrequency treatment/
12.	radiofrequency ablation device/
13.	cryoablation/
14.	rhizotom*.ti,ab.
15.	(radiofrequency or radio frequency).ti,ab.
16.	neurotom*.ti,ab.
17.	rhizoly*.ti,ab.
18.	denervat*.ti,ab.
19.	neuroly*.ti,ab.
20.	chemodenervation.ti,ab.
21.	cryoablat*.ti,ab.
22.	cryosurg*.ti,ab.
23.	ablat*.ti,ab.
24.	(catheter* adj2 (electric* or percutaneous or transvenous or cool* or cold or cryo*)).ti,ab.
25.	or/5-24
26.	(media# adj3 (branch* or nerve*)).ti,ab.
27.	(facet* or zygapophys#al* or apophyseal* or z joint*).ti,ab.
28.	zygapophyseal joint/
29.	or/26-28
30.	4 and 25 and 29
31.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	(rhizotom* or radiofrequency or radio frequency or neurotom* or rhizoly* or denervat* or neuroly* or chemodenervation or cryoablat* or cryosurg* or ablat*):ti,ab,kw
#3.	(catheter* near/2 (electric* or percutaneous or transvenous or cool* or cold or cryo*)):ti,ab
#4.	#2 or #3
#5.	(media* near/3 (branch* or nerve*)):ti,ab,kw
#6.	(facet* or zygapophys* or apophyseal* or z joint*):ti,ab,kw
#7.	#5 or #6
#8.	1 and #4 and #7
#9.	See Table 1 for date parameters

A.1.4.17 Invasive and surgical procedures: epidural injections

Searches for the following two questions were run as one search:

- What is the clinical and cost effectiveness of epidural injections in the management of people with sciatica?
- What is the clinical and cost effectiveness of spinal injections in the management of non-specific low back pain?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp injections/
6.	exp sclerosing solutions/
7.	(scleros* or sclerotherapy or prolotherapy).ti,ab.
8.	((proliferat* or regenerat*) adj2 therap*).ti,ab.
9.	exp botulinum toxins/
10.	(botox or botulin*).ti,ab.
11.	exp hyaluronic acid/
12.	viscosupplements/
13.	viscosupplementation/
14.	viscosupplement*.ti,ab.
15.	(hyaluronic or hyaluronate* or hyaluronan*).ti,ab.
16.	exp anesthetics, local/
17.	lidocaine/
18.	(lidocaine or lignocaine).ti,ab.
19.	inject*.ti,ab.
20.	exp adrenal cortex hormones/
21.	exp steroids/
22.	(glucocorticosteroid* or corticosteroid* or glucocorticoid* or steroid*).ti,ab.
23.	(local* adj2 (an*esthetic* or an*esthes*)).ti,ab.
24.	analgesia, epidural/
25.	(epidural or peridural or extradural).ti,ab.
26.	((caudal or sacral or sacrum or interlaminar or transforaminal or lumbar) adj2 (epidural* or analges* or block*)).ti,ab.
27.	exp tumor necrosis factors/ai
28.	(antitnf or anti-tnf or ((tnf or tumo*r necrosis factor*) adj1 (antagonist* or inhibit*))).ti,ab.
29.	or/5-28
30.	Study filters RCT [A.1.3.2] or SR [A.1.3.3]
31.	4 and 29 and 30
32.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2

4.	Limit 3 to English language
5.	exp *injection/
6.	exp *sclerosing agent/
7.	(scleros* or sclerotherapy or prolotherapy).ti,ab.
8.	((proliferat* or regenerat*) adj2 therap*).ti,ab.
9.	exp *botulinum toxin/
10.	(botox or botulin*).ti,ab.
11.	exp *hyaluronic acid/
12.	*viscosupplement/
13.	*viscosupplementation/
14.	viscosupplement*.ti,ab.
15.	(hyaluronic or hyaluronate* or hyaluronan*).ti,ab.
16.	exp *local anesthetic agent/
17.	*lidocaine/
18.	(lidocaine or lignocaine).ti,ab.
19.	inject*.ti,ab.
20.	exp *corticosteroid/
21.	exp *steroid/
22.	(glucocorticosteroid* or corticosteroid* or glucocorticoid* or steroid*).ti,ab.
23.	(local* adj2 (an*esthetic* or an*esthes*)).ti,ab.
24.	*epidural anesthesia/
25.	(epidural or peridural or extradural).ti,ab.
26.	((caudal or sacral or sacrum or interlaminar or transforaminal or lumbar) adj2 (epidural* or analges* or block*)).ti,ab.
27.	exp *tumor necrosis factor/
28.	(antitnf or anti-tnf or ((tnf or tumo*r necrosis factor*) adj1 (antagonist* or inhibit*))).ti,ab.
29.	or/5-28
30.	Study filters RCT [A.1.3.2] or SR [A.1.3.3]
31.	4 and 29 and 30
32.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	MeSH descriptor: [injections] explode all trees
#3.	MeSH descriptor: [sclerosing solutions] explode all trees
#4.	(scleros* or sclerotherapy or prolotherapy):ti,ab
#5.	((proliferat* or regenerat*) near/2 therap*):ti,ab
#6.	MeSH descriptor: [botulinum toxins] explode all trees
#7.	(botox or botulin*):ti,ab
#8.	MeSH descriptor: [hyaluronic acid] explode all trees
#9.	MeSH descriptor: [viscosupplements] explode all trees
#10.	MeSH descriptor: [viscosupplementation] explode all trees
#11.	viscosupplement*:ti,ab
#12.	(hyaluronic or hyaluronate* or hyaluronan*):ti,ab
#13.	MeSH descriptor: [anesthetics, local] explode all trees
#14.	MeSH descriptor: [lidocaine] explode all trees

#15.	(lidocaine or lignocaine):ti,ab
#16.	inject*:ti,ab
#17.	MeSH descriptor: [adrenal cortex hormones] explode all trees
#18.	MeSH descriptor: [steroids] explode all trees
#19.	(glucocorticosteroid* or corticosteroid* or glucocorticoid* or steroid*):ti,ab
#20.	(local* near/2 (an*esthetic* or an*esthes*)):ti,ab
#21.	MeSH descriptor: [analgesia, epidural] explode all trees
#22.	(epidural or peridural or extradural):ti,ab
#23.	((caudal or sacral or sacrum or interlaminar or transforaminal or lumbar) near/2 (epidural* or analges* or block*)):ti,ab
#24.	mesh descriptor: [tumor necrosis factors] explode all trees
#25.	(antitnf or anti-tnf or ((tnf or tumo*r necrosis factor*) near/1 (antagonist* or inhibit*)):ti,ab
#26.	{or #2-#25}
#27.	#1 and #26
#28.	See Table 1 for date parameters

A.1.4.18 Referral for surgical opinion: non-specific LBP and suspected sciatica

Searches for the following two questions were run as one search:

- In people with non-specific low back pain or sciatica, what are the factors (clinical signs and symptoms, patient reported outcomes or prognostic tests) that predict increased benefit or harm from surgical assessment?
- In people with non-specific low back pain or sciatica, what is the optimal timing of referral to a surgeon to improve outcomes?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	((surg* or spondylodesis or spondylosyndesis or artificial ankylosis or syndesis or arthrodesis or fusion or dis#ectom* or laminectom* or laminotom* or dis# replace* or dis# arthroplast*) adj5 (refer* or assess* or opinion* or criteria* or select* or evaluat* or advice or advise or consult*)):ti,ab.
6.	Study filter PROG [A.1.3.7]
7.	4 and 5 and 6
8.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	((surg* or spondylodesis or spondylosyndesis or artificial ankylosis or syndesis or arthrodesis or fusion or dis#ectom* or laminectom* or laminotom* or dis# replace* or dis# arthroplast*) adj5 (refer* or assess* or opinion* or criteria* or select* or evaluat* or advice or advise or consult*)):ti,ab.
6.	Study filter PROG [A.1.3.7]
7.	4 and 5 and 6

8.	See Table 1 for date parameters
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Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	((surg* or spondylodesis or spondylosyndesis or artificial ankylosis or syndesis or arthrodesis or fusion or discectom* or diskectom* or laminectom* or laminotom* or disc replace* or disc arthroplast* or disk replace* or disk arthroplast*) near/5 (refer* or assess* or opinion* or criteria* or select* or evaluat* or advice or advise or consult*)):ti,ab
#3.	#1 and #2
#4.	See Table 1 for date parameters

A.1.4.19 Invasive and surgical procedures: disc replacement surgery

- What is the clinical and cost effectiveness of disc replacement surgery in people with non-specific low back pain?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp diskectomy/
6.	total disc replacement/
7.	dis#ectom*.ti,ab.
8.	(dis# adj4 (prosthe* or artificial or remov* or excis* or surg* or resect* or replac* or displac* or hernia* or arthroplast*)):ti,ab.
9.	((spine or spinal or intervertebra*) adj2 (device* or arthroplast*)):ti,ab.
10.	or/5-9
11.	Study filters RCT [A.1.3.2] or SR [A.1.3.3]
12.	4 and 10 and 11
13.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	*intervertebral diskectomy/
6.	*total disc replacement/
7.	dis#ectom*.ti,ab.
8.	(dis# adj4 (prosthe* or artificial or remov* or excis* or surg* or resect* or replac* or displac* or hernia* or arthroplast*)):ti,ab.
9.	((spine or spinal or intervertebra*) adj2 (device* or arthroplast*)):ti,ab.
10.	or/5-9
11.	Study filters RCT [A.1.3.2] or SR [A.1.3.3]
12.	4 and 10 and 11
13.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	MeSH descriptor: [diskectomy] explode all trees
#3.	MeSH descriptor: [total disc replacement] explode all trees
#4.	dis?ectom*:ti,ab
#5.	(dis? near/4 (prosth* or artificial or remov* or excis* or surg* or resect* or replac* or displac* or hernia* or arthroplast*)):ti,ab
#6.	((spine or spinal or intervertebra*) near/2 (device* or arthroplast*)):ti,ab
#7.	{or #2-#6}
#8.	#1 and #7
#9.	See Table 1 for date parameters

A.1.4.20 Invasive and surgical procedures: spinal fusion or arthrodesis

- What is the clinical and cost effectiveness of spinal fusion/arthrodesis in people with non-specific low back pain?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	spinal fusion/
6.	fusion.ti,ab.
7.	(alif or plif or tlif or dlif or xlif or ollif or axlif or axialif or lif).ti,ab.
8.	(arthrodesis or syndesis).ti,ab.
9.	(spondylodesis or spondylosyndesis).ti,ab.
10.	artificial ankylosis.ti,ab.
11.	arthroplasty/
12.	total disc replacement/
13.	arthroplasty, replacement/
14.	((disc or disk) adj2 (replac* or arthroplast*)):ti,ab.
15.	((vertebra* or spine or spinal or lumbar) adj2 arthroplast*):ti,ab.
16.	or/5-15
17.	Study filters RCT [A.1.3.2] or SR [A.1.3.3] or OBS [A.1.3.6]
18.	4 and 16 and 17
19.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	exp spine fusion/
6.	arthroplasty/
7.	total disc replacement/
8.	fusion.ti,ab.
9.	(alif or plif or tlif or dlif or xlif or ollif or axlif or axialif or lif).ti,ab.
10.	(arthrodesis or syndesis).ti,ab.

11.	(spondylodesis or spondylosyndesis).ti,ab.
12.	artificial ankylosis.ti,ab.
13.	((disc or disk) adj2 (replac* or arthroplast*)).ti,ab.
14.	((vertebra* or spine or spinal or lumbar) adj2 arthroplast*).ti,ab.
15.	or/5-14
16.	Study filters RCT [A.1.3.2] or SR [A.1.3.3] or OBS [A.1.3.6]
17.	4 and 15 and 16
18.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	[mh "spinal fusion"]
#3.	[mh arthroplasty]
#4.	[mh "total disc replacement"]
#5.	[mh "arthroplasty, replacement"]
#6.	(fusion or arthrodesis or syndesis or spondylodesis or spondylosyndesis):ti,ab
#7.	(alif or plif or tlif or dlif or xlif or ollif or axlif or axialif or lif):ti,ab
#8.	(artificial next ankylosis):ti,ab
#9.	((disc or disk) near/2 (replac* or arthroplast*)):ti,ab
#10.	((vertebra* or spine or spinal or lumbar) near/2 arthroplast*):ti,ab
#11.	{or #2-#10}
#12.	#1 and #11
#13.	See Table 1 for date parameters

A.1.4.21 Invasive and surgical procedures: spinal decompression

- What is the clinical and cost effectiveness of spinal decompression in people with sciatica?

Medline search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	dis#ectom*.ti,ab.
6.	(dis# adj2 (remov* or excis* or surg* or resect* or replac*)):ti,ab.
7.	(lumb* adj2 (remov* or excis* or surg* or resect* or replac* or arthroplast*)):ti,ab.
8.	exp diskectomy/
9.	total disc replacement/
10.	laminectomy/
11.	(laminectom* or laminotom* or laminoplast*).ti,ab.
12.	(lamina adj2 (remov* or excis* or surg* or resect* or replac* or arthroplast*)):ti,ab.
13.	foraminotomy/
14.	(facetectom* or foraminotom* or fenestrat*).ti,ab.
15.	decompression, surgical/
16.	((surg* or lumb* or dis# or intradiscal) adj2 decompress*).ti,ab.
17.	microdis#ectom*.ti,ab.

18.	(micro* adj2 (surg* or endoscop* or laser)).ti,ab.
19.	((dis# or intradiscal or intervertebral or percutaneous) adj2 (arthroplast* or biacuplast* or annuloplast* or electrothermal or thermomodulation)).ti,ab.
20.	(accutherm or disctrode or spinecath or transdiscal).ti,ab.
21.	(thermal adj2 procedure*).ti,ab.
22.	apld.ti,ab.
23.	microdecompression*.ti,ab.
24.	sequestrectom*.ti,ab.
25.	lumbar vertebrae/su [surgery]
26.	or/5-25
27.	Study filters RCT [A.1.3.2] or SR [A.1.3.3] or OBS [A.1.3.6]
28.	4 and 26 and 27
29.	See Table 1 for date parameters

Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	dis#ectom*.ti,ab.
6.	(dis# adj2 (remov* or excis* or surg* or resect* or replac*)).ti,ab.
7.	(lumb* adj2 (remov* or excis* or surg* or resect* or replac* or arthroplast*)).ti,ab.
8.	intervertebral diskectomy/
9.	total disc replacement/
10.	laminectomy/
11.	(laminectom* or laminotom* or laminoplast*).ti,ab.
12.	(lamina adj2 (remov* or excis* or surg* or resect* or replac* or arthroplast*)).ti,ab.
13.	foraminotomy/
14.	fenestration/
15.	(facetectom* or foraminotom* or fenestration*).ti,ab.
16.	decompression surgery/
17.	((surg* or lumb* or dis# or intradiscal) adj2 decompress*).ti,ab.
18.	microdis#ectom*.ti,ab.
19.	(micro* adj2 (surg* or endoscop* or laser)).ti,ab.
20.	((dis# or intradiscal or intervertebral or percutaneous) adj2 (arthroplast* or biacuplast* or annuloplast* or electrothermal or thermomodulation)).ti,ab.
21.	(accutherm or disctrode or spinecath or transdiscal).ti,ab.
22.	(thermal adj2 procedure*).ti,ab.
23.	apld.ti,ab.
24.	microdecompression*.ti,ab.
25.	sequestrectom*.ti,ab.
26.	lumbar vertebra/su [surgery]
27.	or/5-26
28.	Study filters RCT [A.1.3.2] or SR [A.1.3.3] or OBS [A.1.3.6]
29.	4 and 27 and 28
30.	See Table 1 for date parameters

Cochrane search terms

#1.	Standard lower back pain population [A.1.2]
#2.	dis*ectom*:ti,ab,kw
#3.	(dis* near/2 (remov* or excis* or surg* or resect* or replac*)):ti,ab,kw
#4.	(lumb* near/2 (remov* or excis* or surg* or resect* or replac* or arthroplast*)):ti,ab,kw
#5.	MeSH descriptor: [discectomy] explode all trees
#6.	MeSH descriptor: [total disc replacement] this term only
#7.	MeSH descriptor: [laminectomy] this term only
#8.	(laminectom* or laminotom* or laminoplast*):ti,ab,kw
#9.	(lamina near/2 (remov* or excis* or surg* or resect* or replac* or arthroplast*)):ti,ab,kw
#10.	MeSH descriptor: [foraminotomy] this term only
#11.	(facetectom* or foraminotom* or fenestrat*):ti,ab,kw
#12.	MeSH descriptor: [decompression, surgical] this term only
#13.	((surg* or lumb* or dis* or intradiscal) near/2 decompress*):ti,ab,kw
#14.	microdis*ectom*:ti,ab,kw
#15.	(micro* near/2 (surg* or endoscop* or laser)):ti,ab,kw
#16.	((dis* or intradiscal or intervertebral or percutaneous) near/2 (arthroplast* or biacuplast* or annuloplast* or electrothermal or thermomodulation)):ti,ab,kw
#17.	(accutherm or disctrode or spinecath or transdiscal):ti,ab,kw
#18.	(thermal near/2 procedure*):ti,ab,kw
#19.	apld:ti,ab,kw
#20.	microdecompression*:ti,ab,kw
#21.	sequestrectom*:ti,ab,kw
#22.	MeSH descriptor: [lumbar vertebrae] this term only and with qualifier(s): [surgery - su]
#23.	{or #2-#22}
#24.	#1 and #23
#25.	See Table 1 for date parameters

A.1.5 Health economics search

A.1.5.1 Health economic reviews

Economic searches were conducted in Medline, Embase, CRD (for NHS EED and HTA) and HEED.

Medline & Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	Excluded study designs and publication types [A.1.3.1Error! Reference source not found.]
3.	1 not 2
4.	Limit 3 to English language
5.	Study filter HE [A.1.3.4]
6.	4 and 5
7.	Date parameters: 2013-15 December 2015

CRD search terms

#1.	Standard lower back pain population [A.1.2]
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#2.	Date parameters: Inception to 15 December 2015
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HEED search terms

1.	Standard lower back pain population [A.1.2]
2.	Date parameters: Inception to 29 October 2013

A.1.5.2 Quality of life reviews

Medline & Embase search terms

1.	Standard lower back pain population [A.1.2]
2.	(euroqol* or eq5d* or eq 5*).ti,ab.
3.	1 and 2
4.	See Table 1 for date parameters – 21 December 2015