



Information about how the guideline was developed is on the [guideline's page](#) on the NICE website. This includes the evidence reviews, the scope, details of the committee and any declarations of interest.

### **New and updated recommendations**

We have reviewed the evidence on the pharmacological management of sciatica. You are invited to comment on the new recommendations. These are marked as **[2020]**.

We have not reviewed the evidence for the recommendations shaded in grey, and cannot accept comments on them. In some cases, we have made minor wording changes for clarification.

Full details of the evidence and the committee's discussion on the 2020 recommendations are in the [evidence reviews](#). Evidence for the 2016 recommendations is in the [full version](#) of the 2016 guideline

See [update information](#) for a full explanation of what is being updated.

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## 1 Recommendations

People have the right to be involved in discussions and make informed decisions about their care, as described in [making decisions about your care](#).

[Making decisions using NICE guidelines](#) explains how we use words to show the strength (or certainty) of our recommendations, and has information about prescribing medicines (including off-label use), professional guidelines, standards and laws (including on consent and mental capacity), and safeguarding.

### 2 **1.1 Assessment of low back pain and sciatica**

#### 3 **Alternative diagnoses**

4 1.1.1 Think about alternative diagnoses when examining or reviewing people  
5 with low back pain, particularly if they develop new or changed symptoms.  
6 Exclude specific causes of low back pain, for example, cancer, infection,  
7 trauma or inflammatory disease such as spondyloarthritis. If serious  
8 underlying pathology is suspected, refer to relevant NICE guidance on:

- 9 • [Metastatic spinal cord compression in adults](#)
- 10 • [Spinal injury](#)
- 11 • [Spondyloarthritis](#)
- 12 • [Suspected cancer](#). [2016]

#### 13 **Risk assessment and risk stratification tools**

14 1.1.2 Consider using risk stratification (for example, the STarT Back risk  
15 assessment tool) at first point of contact with a healthcare professional for  
16 each new episode of low back pain with or without sciatica to inform  
17 shared decision-making about stratified management. [2016]

18 1.1.3 Based on risk stratification, consider:

- 19 • simpler and less intensive support for people with low back pain with or  
20 without sciatica likely to improve quickly and have a good outcome (for

1 example, reassurance, advice to keep active and guidance on self-  
2 management)

- 3 • more complex and intensive support for people with low back pain with  
4 or without sciatica at higher risk of a poor outcome (for example,  
5 exercise programmes with or without manual therapy or using a  
6 psychological approach). **[2016]**

## 7 **Imaging**

8 1.1.4 Do not routinely offer imaging in a non-specialist setting for people with  
9 low back pain with or without sciatica. **[2016]**

10 1.1.5 Explain to people with low back pain with or without sciatica that if they  
11 are being referred for specialist opinion, they may not need imaging.  
12 **[2016]**

13 1.1.6 Consider imaging in specialist settings of care (for example, a  
14 musculoskeletal interface clinic or hospital) for people with low back pain  
15 with or without sciatica only if the result is likely to change management.  
16 **[2016]**

## 17 **1.2 Non-invasive treatments for low back pain and sciatica**

### 18 **Non-pharmacological interventions**

#### 19 **Self-management**

20 1.2.1 Provide people with advice and information, tailored to their needs and  
21 capabilities, to help them self-manage their low back pain with or without  
22 sciatica, at all steps of the treatment pathway. Include:

- 23 • information on the nature of low back pain and sciatica
- 24 • encouragement to continue with normal activities. **[2016]**

#### 25 **Exercise**

26 1.2.2 Consider a group exercise programme (biomechanical, aerobic, mind-  
27 body or a combination of approaches) within the NHS for people with a  
28 specific episode or flare-up of low back pain with or without sciatica. Take

1 people's specific needs, preferences and capabilities into account when  
2 choosing the type of exercise. **[2016]**

### 3 ***Orthotics***

4 1.2.3 Do not offer belts or corsets for managing low back pain with or without  
5 sciatica. **[2016]**

6 1.2.4 Do not offer foot orthotics for managing low back pain with or without  
7 sciatica. **[2016]**

8 1.2.5 Do not offer rocker sole shoes for managing low back pain with or without  
9 sciatica. **[2016]**

### 10 ***Manual therapies***

11 1.2.6 Do not offer traction for managing low back pain with or without sciatica.  
12 **[2016]**

13 1.2.7 Consider manual therapy (spinal manipulation, mobilisation or soft tissue  
14 techniques such as massage) for managing low back pain with or without  
15 sciatica, but only as part of a treatment package including exercise, with  
16 or without psychological therapy. **[2016]**

### 17 ***Acupuncture***

18 1.2.8 Do not offer acupuncture for managing low back pain with or without  
19 sciatica. **[2016]**

### 20 ***Electrotherapies***

21 1.2.9 Do not offer ultrasound for managing low back pain with or without  
22 sciatica. **[2016]**

23 1.2.10 Do not offer percutaneous electrical nerve simulation (PENS) for  
24 managing low back pain with or without sciatica. **[2016]**

25 1.2.11 Do not offer transcutaneous electrical nerve simulation (TENS) for  
26 managing low back pain with or without sciatica. **[2016]**

1 1.2.12 Do not offer interferential therapy for managing low back pain with or  
2 without sciatica. **[2016]**

3 ***Psychological therapy***

4 1.2.13 Consider psychological therapies using a cognitive behavioural approach  
5 for managing low back pain with or without sciatica but only as part of a  
6 treatment package including exercise, with or without manual therapy  
7 (spinal manipulation, mobilisation or soft tissue techniques such as  
8 massage). **[2016]**

9 ***Combined physical and psychological programmes***

10 1.2.14 Consider a combined physical and psychological programme,  
11 incorporating a cognitive behavioural approach (preferably in a group  
12 context that takes into account a person's specific needs and capabilities),  
13 for people with persistent low back pain or sciatica:

- 14
- when they have significant psychosocial obstacles to recovery (for  
15 example, avoiding normal activities based on inappropriate beliefs  
16 about their condition) **or**
  - when previous treatments have not been effective. **[2016]**
- 17

18 ***Return-to-work programmes***

19 1.2.15 Promote and facilitate return to work or normal activities of daily living for  
20 people with low back pain with or without sciatica. **[2016]**

21 ***Pharmacological management of sciatica***

22 1.2.16 Do not offer gabapentinoids, other antiepileptics, oral corticosteroids or  
23 benzodiazepines for managing sciatica. **[2020]**

24 1.2.17 Do not offer opioids for managing [chronic](#) sciatica. **[2020]**

25 1.2.18 If a person is already taking opioids, gabapentinoids or benzodiazepines  
26 for sciatica, explain the risks of continuing these medicines. **[2020]**

- 1 1.2.19 If a shared decision is made to stop opioids, gabapentinoids or  
2 benzodiazepines for sciatica, discuss the problems associated with  
3 withdrawal with the person. **[2020]**
- 4 1.2.20 Be aware that there is limited evidence of benefit for the use of non-  
5 steroidal anti-inflammatory drugs (NSAIDs) in sciatica.
- 6 NICE is developing a guideline on [medicines associated with dependence or](#)  
7 [withdrawal symptoms: safe prescribing and withdrawal management](#).

For a short explanation of why the committee made the 2020 recommendations on pharmacological management of sciatica and how they might affect practice, see [rationale and impact](#).

The committee have also made [research recommendations](#) on opioids for the management of acute sciatica, and antidepressants for the management of sciatica.

Full details of the evidence and the committee's discussion are in [evidence review A: pharmacological management of sciatica](#).

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## 9 **Pharmacological management of low back pain**

- 10 1.2.21 Consider oral NSAIDs for managing low back pain, taking into account  
11 potential differences in gastrointestinal, liver and cardio-renal toxicity, and  
12 the person's risk factors, including age. **[2016]**
- 13 1.2.22 When prescribing oral NSAIDs for low back pain, think about appropriate  
14 clinical assessment, ongoing monitoring of risk factors, and the use of  
15 gastroprotective treatment. **[2016]**
- 16 1.2.23 Prescribe oral NSAIDs for low back pain at the lowest effective dose for  
17 the shortest possible period of time. **[2016]**
- 18 1.2.24 Consider weak opioids (with or without paracetamol) for managing acute  
19 low back pain only if an NSAID is contraindicated, not tolerated or has  
20 been ineffective. **[2016]**

1 1.2.25 Do not offer paracetamol alone for managing low back pain. **[2016]**

2 1.2.26 Do not routinely offer opioids for managing acute low back pain (see  
3 recommendation 1.2.23). **[2016]**

4 1.2.27 Do not offer opioids for managing chronic low back pain. **[2016]**

5 1.2.28 Do not offer selective serotonin reuptake inhibitors, serotonin–  
6 norepinephrine reuptake inhibitors or tricyclic antidepressants for  
7 managing low back pain. **[2016]**

8 1.2.29 Do not offer gabapentinoids or antiepileptics for managing low back pain.  
9 **[2016, amended 2020]**

## 10 **1.3 Invasive treatments for low back pain and sciatica**

### 11 **Non-surgical interventions**

#### 12 **Spinal injections**

13 1.3.1 Do not offer spinal injections for managing low back pain. **[2016]**

#### 14 **Radiofrequency denervation**

15 1.3.2 Consider referral for assessment for radiofrequency denervation for  
16 people with chronic low back pain when:

- 17 • non-surgical treatment has not worked for them **and**
- 18 • the main source of pain is thought to come from structures supplied by  
19 the medial branch nerve **and**
- 20 • they have moderate or severe levels of localised back pain (rated as 5  
21 or more on a visual analogue scale, or equivalent) at the time of  
22 referral. **[2016]**

23 1.3.3 Only perform radiofrequency denervation in people with chronic low back  
24 pain after a positive response to a diagnostic medial branch block. **[2016]**

25 1.3.4 Do not offer imaging for people with low back pain with specific facet joint  
26 pain as a prerequisite for radiofrequency denervation. **[2016]**

1 ***Epidurals***

2 1.3.5 Consider epidural injections of local anaesthetic and steroid in people with  
3 acute and severe sciatica. **[2016]**

4 1.3.6 Do not use epidural injections for neurogenic claudication in people who  
5 have central spinal canal stenosis. **[2016]**

6 **Surgical interventions**

7 ***Surgery and prognostic factors***

8 1.3.7 Do not allow a person's BMI, smoking status or psychological distress to  
9 influence the decision to refer them for a surgical opinion for sciatica.  
10 **[2016]**

11 ***Spinal decompression***

12 1.3.8 Consider spinal decompression for people with sciatica when non-surgical  
13 treatment has not improved pain or function and their radiological findings  
14 are consistent with sciatic symptoms. **[2016]**

15 ***Spinal fusion***

16 1.3.9 Do not offer spinal fusion for people with low back pain unless as part of a  
17 randomised controlled trial. **[2016]**

18 ***Disc replacement***

19 1.3.10 Do not offer disc replacement in people with low back pain. **[2016]**

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## 1 **1.4 Terms used in this guideline**

2 This section defines terms that have been used in a particular way for this guideline.  
3 For other definitions see the [NICE glossary](#) and the [Think Local, Act Personal Care](#)  
4 [and Support Jargon Buster](#).

### 5 **Acute**

6 Less than 3 months duration.

### 7 **Chronic**

8 A 3 month duration or longer. The intensity of pain may fluctuate over time.

## 9 **Recommendations for research**

10 The guideline committee has made the following recommendations for research.

### 11 **Key recommendations for research**

#### 12 **1 Pharmacological therapies**

13 What is the clinical and cost effectiveness of opioids for the management of acute  
14 sciatica? **[2020]**

#### 15 **2 Pharmacological therapies**

16 What is the clinical and cost effectiveness of antidepressants for the management of  
17 sciatica? **[2020]**

#### 18 **3 Pharmacological therapies**

19 What is the clinical and cost effectiveness of benzodiazepines for the management  
20 of acute low back pain? **[2016]**

21 Full details of the research recommendation are in the [full guideline](#).

#### 22 **4 Pharmacological therapies**

23 What is the clinical and cost effectiveness of codeine with and without paracetamol  
24 for the management of acute low back pain? **[2016]**

25 Full details of the research recommendation are in the [full guideline](#).

## 1 **5 Radiofrequency denervation**

2 What is the clinical and cost effectiveness of radiofrequency denervation for chronic  
3 low back pain in the long term? **[2016]**

4 Full details of the research recommendation are in the [full guideline](#).

## 5 **6 Epidurals**

6 What is the clinical and cost effectiveness of image-guided compared with non-  
7 image-guided epidural injections for people with acute sciatica? **[2016]**

8 Full details of the research recommendation are in the [full guideline](#).

## 9 **7 Spinal fusion**

10 Should people with low back pain be offered spinal fusion as a surgical option?  
11 **[2016]**

12 Full details of the research recommendation are in the [full guideline](#).

## 13 **Rationale and impact**

14 These sections briefly explain why the committee made the recommendations and  
15 how they might affect practice. They link to details of the evidence and a full  
16 description of the committee's discussion.

## 17 **Pharmacological management of sciatica**

18 [Recommendations 1.2.16 to 1.2.20](#)

## 19 **Why the committee made the recommendations**

20 The evidence showed that gabapentinoids did not improve sciatica symptoms, and  
21 oral corticosteroids did not improve pain or function, but may have an impact on  
22 quality of life. Both increased the risk of adverse events in the long-term. While there  
23 was no evidence of increased risk of adverse events associated with  
24 benzodiazepines, there was evidence of poorer response than placebo in terms of  
25 pain reduction. The committee agreed to recommend against the use of  
26 gabapentinoids, oral corticosteroids and benzodiazepines for sciatica because of:

- 27
- the evidence reviewed

- 1 • knowledge of the potential longer-term harms  
2 • the reclassification of gabapentinoids as Schedule 3 controlled drugs in 2019  
3 because of the evidence for risk of abuse and dependence of these drugs.

4 There was no evidence on the use of antiepileptics (other than gabapentinoids) for  
5 sciatica. Given the lack of evidence, and the committee's knowledge of potential  
6 harms, they agreed to recommend that antiepileptics (including gabapentinoids)  
7 should not be used for sciatica.

8 There was no evidence on the use of opioids for sciatica. Given the lack of evidence  
9 and the committee's knowledge of potential harms when used long term, the  
10 committee agreed to recommend against the use of opioids for chronic sciatica.  
11 However, the committee discussed whether opioids might be effective when used  
12 short term for acute sciatica, so made a research recommendation on this topic.

13 There was no evidence on the use of antidepressants for sciatica. The committee  
14 agreed that antidepressants were commonly prescribed for sciatica, and clinical  
15 experience suggests they may be of benefit in some people. The committee  
16 considered the potential for harm to be less than the harms of prolonged use of  
17 opioids. On this basis, the committee made a research recommendation to  
18 determine if there was any clinical benefit for their use to treat sciatica.

19 Limited evidence showed no benefit from NSAIDs for sciatica. The committee  
20 discussed that most clinicians were aware of the risks of harms from NSAIDs, and  
21 that they were unlikely to be continued if they were not helpful. They agreed there  
22 was not sufficient evidence to make a recommendation on the use of NSAIDs for  
23 sciatica.

24 The committee were aware that some people may already be using opioids,  
25 antiepileptics (including gabapentinoids) and benzodiazepines for long periods for  
26 sciatica. Given the potential harms from sudden withdrawal of these medicines, they  
27 recommended discussing with the person the potential harms of long-term use and  
28 the need to withdraw safely if they chose to do so.

29 No evidence was identified for paracetamol, nefopam or muscle relaxants other than  
30 benzodiazepines for the management of sciatica. The committee agreed that none of

1 these are widely prescribed for sciatica. They noted that advice is already included in  
2 this guideline for the use of paracetamol for people with low back pain. Therefore no  
3 further recommendations were made regarding management of sciatica alone, and  
4 these medicines do not warrant further research.

#### 5 **How the recommendations might affect practice**

6 These recommendations are expected to reduce the use of gabapentinoids and  
7 other antiepileptics, corticosteroids, benzodiazepines and long-term opioid  
8 analgesics for sciatica. This will reduce the chance of adverse events and  
9 dependence on medicines that are unlikely to provide clinical benefit. It might lead to  
10 an increased use of other recommended treatments.

11 Full details of the evidence and the committee's discussion are in [evidence review A:  
12 pharmacological management of sciatica](#).

13 [Return to recommendations](#)

14

## 1 **Context**

2 Low back pain that is not associated with serious or potentially serious causes has  
3 been described in the literature as 'non-specific', 'mechanical', 'musculoskeletal' or  
4 'simple' low back pain. For consistency, we have used the term 'low back pain'  
5 throughout this guideline. However, 'non-specific low back pain' was used when  
6 creating the review questions. Worldwide, low back pain causes more disability than  
7 any other condition. Episodes of back pain usually do not last long, with rapid  
8 improvements in pain and disability seen within a few weeks to a few months.

9 Although most back pain episodes get better with initial primary care management,  
10 without the need for investigations or referral to specialist services, up to one-third of  
11 people say they have persistent back pain of at least moderate intensity a year after  
12 an acute episode needing care, and episodes of back pain often recur.

13 One of the greatest challenges with low back pain is identifying risk factors that may  
14 predict when a single back pain episode will become a long-term, persistent pain  
15 condition. When this happens, quality of life is often very low and healthcare  
16 resource use high.

17 This guideline gives guidance on the assessment and management of both low back  
18 pain and sciatica from first presentation onwards in people aged 16 years and over.

19 We use 'sciatica' to describe leg pain secondary to lumbosacral nerve root pathology  
20 rather than the terms 'radicular pain' or 'radiculopathy', although they are more  
21 accurate. This is because 'sciatica' is a term that patients and clinicians understand,  
22 and it is widely used in the literature to describe neuropathic leg pain secondary to  
23 compressive spinal pathology.

24 This guideline does not cover the evaluation or care of people with sciatica with  
25 progressive neurological deficit or cauda equina syndrome. All clinicians involved in  
26 the management of sciatica should be aware of these potential neurological  
27 emergencies and know when to refer to an appropriate specialist.

28 A review of the [NICE guideline on neuropathic pain in adults](#), triggered by an MHRA  
29 safety update of the reclassification of gabapentin and pregabalin as controlled  
30 drugs, highlighted the need for reconsideration of these as suitable treatments for

1 sciatica. It was decided that update should sit within the guideline for low back pain  
2 and sciatica, alongside other treatment recommendations for sciatica.

### 3 **Finding more information and committee details**

4 To find out what NICE has said on topics related to this guideline, see our web page  
5 on [low back pain](#).

6 For details of the guideline committee see the [committee member list](#).

### 7 **Update information**

8 We have reviewed the evidence on pharmacological management for people with  
9 sciatica.

10 These recommendations are marked **[2020]**.

### 11 ***Recommendations that have been deleted, or changed without an*** 12 ***evidence review***

13 We propose to delete a recommendation from the 2016 guideline. [Table 1](#) sets out  
14 this recommendation and includes details of replacement recommendations.

15 For recommendations shaded in grey and ending **[2016]**, we have not reviewed the  
16 evidence. In some cases minor changes have been made – for example, to update  
17 links, or bring the language and style up to date – without changing the intent of the  
18 recommendation. These recommendations are marked **[2016, amended 2020]**.

19 Minor changes are listed in [table 2](#).

### 20 **Table 1 Recommendations that have been deleted**

Recommendation in 2016 guideline	Comment
For recommendations on pharmacological management of sciatica, see NICE's guideline on neuropathic pain in adults. (1.2.16)	Replaced by: Do not offer gabapentinoids, other antiepileptics, oral corticosteroids or benzodiazepines for managing sciatica (1.2.16) Do not offer opioids for managing chronic sciatica (1.2.17) If a person is already taking opioids, gabapentinoids or benzodiazepines for

	<p>sciatica, explain the risks of continuing these medicines (1.2.18)</p> <p>If a shared decision is made to stop opioids, gabapentinoids or benzodiazepines for sciatica, discuss the problems associated with withdrawal with the person (1.2.19).</p> <p>Be aware that there is limited evidence of benefit for the use of non-steroidal anti-inflammatory drugs (NSAIDs) in sciatica (1.2.20).</p>
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2 **Table 2 Minor changes to recommendation wording (no change to intent)**

Recommendation numbers in current guideline	Comment
1.2.29	Amended “anticonvulsants” to “gabapentinoids and antiepileptics” to align recommendation with 2020 recommendations

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