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NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

Guideline

Osteoarthritis: assessment and management

Draft for consultation, April 2022

This guideline covers the diagnosis, assessment and non-surgical management of osteoarthritis. It aims to improve management of osteoarthritis and the quality of life for people with osteoarthritis.

This guideline will update NICE guideline CG177 (published February 2014).

Who is it for?

- Healthcare professionals
- Commissioners of health and social care services
- People with osteoarthritis, their families and carers

What does it include?

- the recommendations
- recommendations for research
- rationale and impact sections that explain why the committee made the recommendations and how they might affect practice
- the guideline context.

Information about how the guideline was developed is on the <u>guideline's</u> <u>webpage</u>. This includes the evidence reviews, the scope, details of the committee and any declarations of interest.

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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 NICE's information on 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 and diagnosis

- 3 1.1.1 Diagnose osteoarthritis clinically without investigations in people who:
- 4 are 45 or over and

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- have activity-related joint pain and
- have either no morning joint-related stiffness or morning stiffness that lasts no longer than 30 minutes.
- 8 1.1.2 Do not routinely use imaging to diagnose osteoarthritis unless there are
 9 <u>atypical features</u> or features that suggest an alternative or additional
 10 diagnosis.

For a short explanation of why the committee made these recommendations and how they might affect practice, see the <u>rationale and impact section on</u> <u>assessment and diagnosis</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review A: additional benefit of imaging for diagnosis.

11 **1.2 Information and support**

12 1.2.1 When giving information to people with osteoarthritis, their families and carers, tailor it to their individual needs (such as language and culture), ensure it is in an accessible format and follow the recommendations on:

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1		• enabling patients to actively participate in their care in NICE's guideline
2		on patient experience in adult NHS services
3		• putting shared decision making into practice in NICE's guideline on
4		shared decision making
5		delivering an approach to care that takes account of multimorbidity in
6		NICE's guideline on multimorbidity.
7	1.2.2	Explain to people with osteoarthritis that:
8		• it is diagnosed clinically and does not need imaging and
9		the core treatments for the condition are therapeutic exercise and
10		weight loss (if appropriate), along with information and support.
11	1.2.3	Advise them where they can find written and verbal information on:
12		osteoarthritis and how it develops (including flares and progression
13		over time), and information that challenges common misconceptions
14		about the condition
15		specific types of exercise
16		 managing day-to-day pain and changes in pain
17		 how to access additional sources of information and support after
18		consultations, such as peer-to-peer support and support groups
19		benefits of treatment.

For a short explanation of why the committee made these recommendations and how they might affect practice, see the <u>rationale and impact section on information</u> and <u>support</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review B: post-diagnostic information on osteoarthritis for people with <u>osteoarthritis</u>, their family and carers.

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1.3 Non-pharmacological management

2 Therapeutic exercise

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- 3 1.3.1 Offer tailored therapeutic exercise to all people with osteoarthritis (for example, local muscle strengthening, general aerobic fitness).
- 5 1.3.2 Consider supervised therapeutic exercise for people with osteoarthritis.
- 6 1.3.3 Advise people with osteoarthritis that joint pain may increase when they start therapeutic exercise. Explain that:
- doing regular and consistent exercise, even though this may initially
 cause discomfort, will be beneficial for their joints
 - long-term adherence to exercise increases its benefits.
- 11 1.3.4 Consider combining therapeutic exercise with an education programme or 12 behaviour change approaches in a structured <u>treatment package</u>.

For a short explanation of why the committee made these recommendations and how they might affect practice, see the <u>rationale and impact section on therapeutic exercise</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> reviews C: clinical and cost effectiveness of exercise for the management of osteoarthritis and K: clinical and cost effectiveness of treatment packages for the management of osteoarthritis.

Weight loss

- 14 1.3.5 For people with osteoarthritis who have excess weight or obesity:
- advise them that weight loss will improve their quality of life and
 physical function, and reduce pain
- support them to choose a weight loss goal
- explain that any amount of weight loss is likely to be beneficial, but
 losing 10% of their body weight is likely to be better than 5%.

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1	For guidance and information on weight management, including
2	recommended interventions to support weight loss, see NICE's
3	webpage on obesity.

For a short explanation of why the committee made this recommendation and how it might affect practice, see the <u>rationale and impact section on weight loss</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review D: benefit of weight loss for the management of osteoarthritis for people who are overweight or obese.

4 Manual therapy

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- 5 1.3.6 Only consider manual therapy (such as manipulation, mobilisation or soft tissue techniques):
- for people with hip or knee osteoarthritis and
 - alongside therapeutic exercise.
- 9 1.3.7 If discussing manual therapy, explain to people with osteoarthritis that 10 there is not enough evidence to support its use alone for managing 11 osteoarthritis.

For a short explanation of why the committee made these recommendations and how they might affect practice, see the <u>rationale and impact section on manual therapy</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u>

<u>review E: clinical and cost effectiveness of manual therapy for the management of osteoarthritis.</u>

12 **Acupuncture**

13 1.3.8 Do not routinely offer acupuncture or electroacupuncture to manage
 osteoarthritis.

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For a short explanation of why the committee made this recommendation and how it might affect practice, see the rationale and impact section on acupuncture.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review F: clinical and cost effectiveness of acupuncture for people with <u>osteoarthritis</u>.

1 Electrotherapy

2 1.3.9 Do not routinely offer electrotherapy (such as transcutaneous electrical nerve stimulation [TENS]) to people with osteoarthritis.

For a short explanation of why the committee made this recommendation and how it might affect practice, see the <u>rationale and impact section on electrotherapy</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u>

<u>review G: clinical and cost effectiveness of electrotherapy for the management of osteoarthritis.</u>

4 Devices

- 5 1.3.10 Consider <u>walking aids</u> (such as walking sticks) for people with lower limb osteoarthritis.
- 7 1.3.11 Do not routinely offer insoles, braces, tape, splints or supports to people with osteoarthritis.

For a short explanation of why the committee made these recommendations and how they might affect practice, see the <u>rationale and impact section on devices</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review H: clinical and cost effectiveness of devices for the management of osteoarthritis.

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1.4 Pharmacological management

2	Topical,	oral and transdermal medicines
3 4	1.4.1	If pharmacological treatments are needed to manage osteoarthritis, use them:
5 6		alongside non-pharmacological treatments and to support therapeutic exercise
7		• at the lowest effective dose for the shortest possible period of time.
8 9	1.4.2	Offer a topical non-steroidal anti-inflammatory drug (NSAID) to people with knee osteoarthritis.
10 11	1.4.3	Consider a topical NSAID for people with osteoarthritis that affects other joints.
12 13	1.4.4	If topical medicines are ineffective or unsuitable, consider an oral NSAID for people with osteoarthritis and take account of:
14 15 16 17		 potential gastrointestinal, renal, liver and cardiovascular toxicity any risk factors the person may have, including age, pregnancy, current medication and comorbidities.
18 19		Consider adding a gastroprotective treatment (such as a proton pump inhibitor) for people with osteoarthritis while they are taking an NSAID.
20	1.4.5	Do not routinely offer weak opioids unless:
21 22 23 24		 for short-term pain relief all other pharmacological treatments are contraindicated, not tolerated or ineffective.
2526		For more information about opioids, see <u>NICE's guideline on medicines</u> associated with dependence or withdrawal symptoms.
27	1.4.6	Do not routinely offer the following to people with osteoarthritis:

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1 paracetamol 2 glucosamine. 3 1.4.7 Do not offer strong opioids to people with osteoarthritis. 4 1.4.8 If discussed, explain that there is no strong evidence of benefit for 5 paracetamol or glucosamine, and the risks of strong opioids may outweigh 6 the benefits. 7 1.4.9 Review with the person whether to continue treatment. Base the

frequency of reviews on clinical need.

For a short explanation of why the committee made these recommendations and how they might affect practice, see the <u>rationale and impact section on topical, oral and transdermal medicines</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u>

<u>review I: clinical and cost effectiveness of oral, topical and transdermal medicines</u>

<u>for the management of osteoarthritis</u>.

9 Intra-articular injections

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- 10 1.4.10 Do not offer intra-articular hyaluronan injections to manage osteoarthritis.
- 1.4.11 Consider intra-articular corticosteroid injections when other
 pharmacological treatments are ineffective or unsuitable. Explain to the
 person that these will only provide short-term relief.

For a short explanation of why the committee made these recommendations and how they might affect practice, see the <u>rationale and impact section on intra-articular injections</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review J: clinical and cost effectiveness of intra-articular injections for the management of osteoarthritis.

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1.5 Follow-up and review

2 Follow-up appointments

- 3 1.5.1 Consider patient-initiated follow-up for most people with osteoarthritis.
- 4 1.5.2 Consider planned follow-up for people with osteoarthritis when their
- 5 individual needs and preferences suggest that this is necessary, taking
- 6 into account:
- treatments or interventions that need monitoring
- their ability to seek help for themselves
- their occupation and activities
- the severity of their symptoms or functional limitations.

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- People with multiple long-term conditions are likely to benefit from a
- tailored approach in line with <u>NICE's guideline on multimorbidity</u>.
- 14 1.5.3 Advise people with osteoarthritis to seek follow-up if planned management 15 is not working within an agreed follow-up time or they are having 16 difficulties with the agreed approaches.

For a short explanation of why the committee made these recommendations and how they might affect practice, see the <u>rationale and impact section on follow-up appointments</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review L: regular follow-up and review.

17 Imaging for management of osteoarthritis

18 1.5.4 Do not routinely use imaging for follow-up and to guide non-surgical management of osteoarthritis.

For a short explanation of why the committee made this recommendation and how it might affect practice, see the <u>rationale and impact section on imaging for the management of osteoarthritis</u>.

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Full details of the evidence and the committee's discussion are in <u>evidence</u>

<u>review M: clinical and cost effectiveness of imaging during the management of osteoarthritis.</u>

1	1.6	Referral for joint replacement
2	1.6.1	Consider referring people with hip, knee or shoulder osteoarthritis for joint
3		replacement if:
4		• their joint symptoms (such as pain, stiffness and reduced function) are
5		substantially impacting their quality of life and
6		 non-surgical management (for example, therapeutic exercise, weight
7		loss, pain relief) is ineffective or unsuitable.
8	1.6.2	Use clinical assessment when deciding to refer someone for joint
9		replacement, instead of systems that numerically score severity of
10		disease.
11	1.6.3	Do not exclude people with osteoarthritis from referral for joint
12		replacement because of:
13		• age
14		• sex
15		• smoking
16		• comorbidities
17		overweight or obesity, based on measurements such as BMI.
18	1.6.4	If discussing referral for joint replacement, explain to the person being
19		referred that the risks of joint replacement can vary depending on BMI.

For a short explanation of why the committee made these recommendations and how they might affect practice, see the <u>rationale and impact section on referral for</u> joint replacement.

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Full details of the evidence and the committee's discussion are in <u>evidence</u> reviews O: indicators for referral for possible joint replacement and P: outcomes of joint replacement surgery dependent on body mass index.

1 1.7 Arthroscopic procedures

- 2 1.7.1 Do not offer arthroscopic lavage or debridement to people with
- 3 osteoarthritis.

For a short explanation of why the committee made this recommendation and how it might affect practice, see the <u>rationale and impact section on arthroscopic</u> <u>procedures</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review N: clinical and cost effectiveness of arthroscopic procedures for the management of osteoarthritis.

4 Terms used in this guideline

5 This section defines terms that have been used in a particular way for this guideline.

6 Atypical features

- 7 Atypical features could include a history of trauma, prolonged morning joint-related
- 8 stiffness, rapid worsening of symptoms or the presence of a hot swollen joint.

9 Flares

- 10 A temporary worsening of symptoms (pain, swelling and stiffness) that:
- is worse than normal
- may affect sleep, activity, function and psychological wellbeing
- may lead to change in therapy for at least 24 hours.

14 Treatment package

- 15 A treatment package is defined as any treatment for osteoarthritis (including:
- 16 exercise, manual therapy, electrotherapy, acupuncture, devices and pharmacological
- 17 treatments) combined with 1 of the following:

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- behaviour change approaches, including joint protection principles, pain coping
- 2 skills training (including spouse-assisted coping skills training), goal setting;
- 3 motivational coaching; weight management counselling and workplace risk
- 4 counselling
- an education programme given by 1 or more healthcare professionals over
- 6 multiple sessions, including those based on behavioural theory.

7 Walking aids

- 8 Walking aids include walking sticks, crutches, walking frames and rollators. They
- 9 support the person with osteoarthritis to move around independently and safely by
- 10 improving their walking pattern and balance or reducing weight bearing on the
- 11 affected joint.

12 Recommendations for research

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

14 Key recommendations for research

15 **1 Exercise**

- 16 What is the clinical and cost effectiveness of supervised group and individual
- 17 exercise compared with unsupervised exercise for people with osteoarthritis?

For a short explanation of why the committee made the recommendation for research see the <u>rationale section on the rapeutic exercise</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review C: clinical and cost effectiveness of exercise for the management of osteoarthritis.

18 2 Devices

- 19 What is the clinical and cost effectiveness of devices compared with usual care for
- 20 the management of painful foot and or ankle osteoarthritis?

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For a short explanation of why the committee made the recommendation for research see the rationale section on devices.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review H: clinical and cost effectiveness of electrotherapy for the management of osteoarthritis.

1 3 Topical medicines

- 2 What is the clinical and cost effectiveness of topical non-steroidal anti-inflammatory
- 3 drugs and topical capsaicin for osteoarthritis-affected joints other than the knee?

For a short explanation of why the committee made the recommendation for research see the <u>rationale section on topical</u>, <u>oral and transdermal medicines</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u>

<u>review I: clinical and cost effectiveness of oral, topical and transdermal medicines</u>

<u>for the management of osteoarthritis</u>.

4 4 Follow-up strategies

- 5 What is the clinical and cost effectiveness of patient-initiated follow-up compared
- 6 with routine follow-up for people with osteoarthritis?

For a short explanation of why the committee made the recommendation for research see the <u>rationale section on follow-up appointments</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review L: regular follow-up and review.

7 Other recommendations for research

8 Patient information

- 9 What information on the management of flare-ups do people with osteoarthritis, their
- 10 family and carers need after diagnosis?

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- 1 What information do people with osteoarthritis from different ethnic and
- 2 socioeconomic groups and those with learning disabilities, issues with health literacy
- 3 and severe mental illness (and their family and carers) need?

For a short explanation of why the committee made the recommendations for research see the <u>rationale section on information and support</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review B: post-diagnostic information on osteoarthritis for people with <u>osteoarthritis</u>, their family and carers.

4 Manual therapy

- 5 What is the clinical and cost effectiveness of manual therapy for people with
- 6 osteoarthritis, when used alone and when in combination with therapeutic exercise?

For a short explanation of why the committee made the recommendation for research see the <u>rationale section on manual therapy</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u>

<u>review E: clinical and cost effectiveness of manual therapy for the management of osteoarthritis.</u>

7 Acupuncture and electroacupuncture

- 8 In which people with osteoarthritis could acupuncture or electroacupuncture be a
- 9 clinically and cost-effective treatment?

For a short explanation of why the committee made the recommendation for research see the <u>rationale section on acupuncture</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review F: clinical and cost effectiveness of acupuncture for people with <u>osteoarthritis</u>.

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1 Extracorporeal shockwave therapy

- 2 What is the clinical and cost effectiveness of extracorporeal shockwave therapy for
- 3 managing osteoarthritis?

For a short explanation of why the committee made the recommendation for research see the rationale section on electrotherapy.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review G: clinical and cost effectiveness of electrotherapy for people with <u>osteoarthritis</u>.

4 Footwear

- 5 What is the clinical and cost effectiveness of footwear for managing lower limb
- 6 osteoarthritis?

For a short explanation of why the committee made the recommendation for research see the <u>rationale section on devices</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review H: clinical and cost effectiveness of devices for the management of <u>osteoarthritis</u>.

7 Topical and oral medicines

- 8 What is the clinical and cost effectiveness of topical local anaesthetics for people
- 9 with osteoarthritis?
- 10 What is the clinical and cost effectiveness of antiepileptics and antidepressants
- 11 (other than duloxetine) for people with osteoarthritis?
- 12 What is the clinical and cost effectiveness of weak oral opioids for people with
- 13 osteoarthritis?

For a short explanation of why the committee made the recommendations for research see the <u>rationale section on topical</u>, <u>oral and transdermal medicines</u>.

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Full details of the evidence and the committee's discussion are in <u>evidence</u>

<u>review I: clinical and cost effectiveness of oral, topical and transdermal medicines</u>

<u>for the management of osteoarthritis</u>.

1 Intra-articular injections

- 2 What is the clinical and cost effectiveness of intra-articular corticosteroids for
- 3 managing osteoarthritis-affected joints other than the knee?
- 4 What is the clinical and cost effectiveness of intra-articular stem cells for managing
- 5 osteoarthritis?

For a short explanation of why the committee made the recommendations for research see the <u>rationale section on intra-articular injections</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review J: clinical and cost effectiveness of intra-articular injections for the management of osteoarthritis.

6 Referral criteria for joint replacement

- 7 What are the most important indicators that someone with osteoarthritis (including
- 8 shoulder osteoarthritis) would benefit from joint replacement? For example:
- 9 presence of night pain
- non-response to non-pharmacological interventions
- joint instability symptoms
- presence of flares
- numerical summary scores.

For a short explanation of why the committee made the recommendation for research see the <u>rationale section on referral for joint replacement</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review O: indicators for referral for possible joint replacement surgery.

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1 Imaging for management of osteoarthritis

- 2 What is the clinical and cost effectiveness of imaging for informing non-surgical
- 3 management (for example, exercise or weight loss) in primary care for people with
- 4 osteoarthritis?
- 5 What is the clinical and cost effectiveness of imaging for use at different parts of the
- 6 care pathway (for example, primary care, intermediate care or secondary care)
- 7 before surgery for people with osteoarthritis?

For a short explanation of why the committee made the recommendations for research see the <u>rationale section on imaging for management of osteoarthritis</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review M: clinical and cost effectiveness of imaging during the management of osteoarthritis.

8 Rationale and impact

- 9 These sections briefly explain why the committee made the recommendations and
- 10 how they might affect practice.

11 Assessment and diagnosis

12 Recommendations 1.1.1 and 1.1.2

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Why the committee made the recommendations

- 14 There was no evidence showing that imaging is beneficial for diagnosing
- osteoarthritis. The committee agreed that imaging adds little value and that
- osteoarthritis can be diagnosed by taking a thorough history and doing an
- 17 examination. They noted that current practice is to make a diagnosis based on
- 18 NICE's previous recommendation. This specified an age of 45 or older, activity-
- 19 related joint pain and no morning joint-related stiffness (or stiffness lasting no longer
- 20 than 30 minutes) as criteria for diagnosis. The committee agreed there was no
- 21 evidence to change this recommendation. They also noted that clinical diagnosis
- 22 without imaging would mean that second appointments or consultations to discuss
- 23 imaging results would not be necessary. The committee agreed that imaging can be

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- 1 useful if <u>atypical features</u> are present that could suggest an alternative or additional
- 2 diagnosis, such as other inflammatory arthritides (for example, rheumatoid arthritis)
- 3 and malignancy.

4 How the recommendations might affect practice

- 5 Imaging is frequently used when diagnosing osteoarthritis, despite uncertainties
- 6 about its benefit, the resource implications and potential for delays in starting
- 7 management. The recommendations should reduce unnecessary resource use and
- 8 be cost saving.

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9 Return to recommendations

10 Information and support

11 Recommendations 1.2.1 to 1.2.3

Why the committee made the recommendations

- 13 Evidence showed that generally people wanted more information about
- 14 osteoarthritis. This included information about the causes of osteoarthritis to address
- any misconceptions about the condition, what their diagnosis means for the future
- and where to find more information on self management. The committee based their
- 17 recommendations on the evidence and their experience. They agreed that it is
- important to tell people that diagnosis is made clinically without imaging. This would
- 19 help reassure and dispel any belief that X-rays or other forms of imaging are needed
- 20 to diagnose osteoarthritis.
- 21 The committee noted the importance of information that offers hope for the future
- 22 and supports self-management strategies (for example, information that emphasises
- 23 symptom-reducing behaviours, like exercising). They agreed that explaining the core
- 24 treatments for osteoarthritis would help people understand that pharmacological
- 25 treatments are not a long-term solution. They also agreed that information about
- 26 recognising flares and how to manage changes in pain would help the person better
- 27 understand how their condition may vary over time and what they can do about it.
- 28 The committee noted more research was needed on information about managing
- 29 flares and information for different populations of people with osteoarthritis.

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- 1 The committee made recommendations for research on what information people with
- 2 osteoarthritis need.
- 3 The committee agreed that each person's experience of osteoarthritis differs and
- 4 therefore tailoring the information to their needs, as described in NICE's guideline on
- 5 patient experience, is important. They also agreed that osteoarthritis is more
- 6 common in older people who are likely to have other conditions. Therefore, the
- 7 recommendations on delivering an approach to care that takes account of
- 8 multimorbidity in <u>NICE's guideline on multimorbidity</u> are particularly relevant to
- 9 people with osteoarthritis.

10 How the recommendations might affect practice

- 11 The recommendations generally reflect current practice because information is likely
- to be already provided, but they advise on areas in which practice can be improved.
- 13 Return to recommendations

14 Therapeutic exercise

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15 Recommendations 1.3.1 to 1.3.4

Why the committee made the recommendations

- 17 Evidence showed that exercise benefits people with osteoarthritis more than other
- interventions looked at when developing this guideline. The committee concluded
- that exercise has a clinically important benefit for people with osteoarthritis, as well
- 20 as general health benefits and a superior safety profile compared with other common
- 21 treatments, such as analgesia. The committee noted that exercise should be a core
- treatment for people with osteoarthritis alongside information and support and weight
- 23 loss (if appropriate). The committee agreed that therapeutic exercise (exercise that
- 24 specifically aims to prevent progression and manage symptoms) was important.
- 25 Therefore, therapeutic exercise should be tailored to the needs of the person, such
- 26 as joint-site-specific exercises. Limited evidence showed that supervised exercise
- 27 had some benefits compared with unsupervised exercise. The committee's expert
- 28 consensus was that supervised exercise is likely to be of greater benefit than
- 29 unsupervised exercise for people with osteoarthritis. This is because supervised

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- 1 exercise may enable tailored exercise and social support, which may increase
- 2 adherence and lead to people with osteoarthritis forming a regular exercise habit.
- 3 The committee also thought that shared decision making is important when deciding
- 4 the form of exercise delivery and type of exercise, as well as considering personal
- 5 preference and service availability. The committee, acknowledging the importance of
- 6 exercise, made further recommendations to support people to continue therapeutic
- 7 exercise by emphasising its benefits while acknowledging that exercise may initially
- 8 be difficult. They wanted to reassure people with osteoarthritis and healthcare
- 9 professionals that exercise is not harmful to osteoarthritic joints, and that doing
- 10 regular and consistent exercise over a long period of time can reduce pain and
- 11 increase functioning and quality of life.
- 12 The committee noted that further evidence may be needed and made a
- 13 recommendation for research to compare the clinical and cost effectiveness of
- 14 supervised group and individual exercise with unsupervised exercise.
- 15 Evidence showed that treatment packages had a clinically important benefit on
- 16 physical function compared with education or behaviour change interventions alone.
- 17 They also had consistent beneficial changes in quality of life, pain and physical
- 18 function compared with standard care. However, they showed no superiority to
- individual therapies (such as exercise, manual therapy and electrotherapy). The
- 20 committee agreed that a person-centred approach is important. Additional education
- 21 or behavioural change approaches may help some people achieve their goals, but
- 22 others may not need this. Therefore, the committee recommended combining
- 23 therapeutic exercise as part of a structured treatment package because this may be
- 24 more suitable for some people and motivate them to continue with therapeutic
- 25 exercise.

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How the recommendations might affect practice

- 27 Current practice around exercise therapy varies. These recommendations may lead
- 28 to a change in practice by recommending tailored exercise and using treatment
- 29 packages.
- 30 Return to recommendations

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Weight loss

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2 Recommendation 1.3.5

3 Wr	y the	committee	made th	e recomm	endation
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- 4 The committee acknowledged that evidence on the effects of weight loss for people
- 5 with osteoarthritis had limitations. However, for people with knee osteoarthritis,
- 6 evidence generally showed that as the amount of weight loss increased, the benefits
- 7 for quality of life, pain and physical function increased. The committee acknowledged
- 8 the challenges people can have with losing weight and maintaining this weight loss
- 9 and recommended that they are supported.
- 10 The committee acknowledged that, for people who are overweight, losing more than
- 11 10% of their body weight may be the most beneficial, but this may not be achievable
- 12 for all. They wanted to emphasise that losing any amount of weight would be
- beneficial, but that losing more would have more benefits. They agreed that also
- explaining that losing 10% of their body weight is likely to be better than 5% might
- 15 help provide an incentive and encourage weight loss. They also agreed that advising
- on the amount of weight to lose can help people with osteoarthritis by providing a
- 17 target for them to work towards.
- 18 The committee determined that, although evidence was from people with knee
- osteoarthritis, this could be applied to people with other osteoarthritis-affected joints.
- 20 This is because of the potential additional benefits of weight loss seen in other
- 21 populations, such as reducing inflammatory factors, that may be beneficial for all
- joint sites and general wellbeing. The committee also agreed that osteoarthritis is a
- 23 multi-joint disease and people presenting with the condition in 1 joint may end up
- 24 getting it in another. Weight loss may help reduce this risk.

How the recommendation might affect practice

- 26 This recommendation somewhat reflects current practice but may lead to a change
- in how people with osteoarthritis and healthcare professionals discuss weight loss.
- 28 This is unlikely to have a significant resource impact.
- 29 Return to recommendation

25

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Manual therapy

1

2	Recommend	ations 1.3	3.6 and	1.3.7
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3	Why	the	committee	made th	ne recomm	endations
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- 4 The committee acknowledged recent evidence that showed some clinical benefits of
- 5 manual therapy for hip and knee osteoarthritis. However, the benefits were stronger
- 6 if manual therapy was combined with exercise. Clinical and economic evidence
- 7 showed that exercise alone was more effective than manual therapy alone and the
- 8 combination of manual therapy and exercise. So, the committee concluded that
- 9 manual therapy should only be considered alongside therapeutic exercise. Most
- studies provided therapy for less than 3 months and on average for 7 weeks. The
- 11 committee agreed that the duration of manual therapy would be similar, but would
- 12 vary according to the person's needs. They agreed that further research was
- 13 needed, in particular evidence from well-powered, high-quality studies with adequate
- 14 blinding and on other osteoarthritis-affected joints. They made a recommendation for
- research on manual therapy for people with osteoarthritis used alone and in
- 16 combination with therapeutic exercise.

17 How the recommendations might affect practice

- 18 Current practice around manual therapy varies. Adding manual therapy to exercise
- would be a slight change in practice, but it would not have a substantial resource
- 20 impact because it is not needed long term.
- 21 Return to recommendations

22 **Acupuncture**

24

23 Recommendation 1.3.8

Why the committee made the recommendation

- 25 The available evidence was predominantly for knee osteoarthritis. This showed a
- 26 lack of benefits of acupuncture and some evidence of harm. Economic evidence also
- 27 showed that using acupuncture for osteoarthritis is not cost effective, so the
- 28 committee did not recommend its routine use. There was some evidence of clinical
- benefit and cost effectiveness for electroacupuncture but this is of very low quality

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- 1 because of small study sizes and inconsistency between studies. Evidence for
- 2 electroacupuncture suggested it showed a benefit compared with sham acupuncture
- 3 but not compared with acupuncture or no treatment. The committee considered that
- 4 the inconsistent evidence could result from some people responding more to
- 5 electroacupuncture than others. Because there is uncertainty about who might
- 6 benefit from acupuncture or electroacupuncture, the committee made a
- 7 recommendation for research on acupuncture and electroacupuncture for
- 8 osteoarthritis.

9 How the recommendation might affect practice

- 10 The recommendation reflects current practice so the committee agreed there should
- 11 be no change in practice or resource impact to the NHS.
- 12 Return to recommendation

13 **Electrotherapy**

15

14 Recommendation 1.3.9

Why the committee made the recommendation

- 16 Although there were many studies on electrotherapy, the findings were inconsistent
- and mostly showed little benefit of electrotherapy. The committee acknowledged that
- most studies were small with fewer than 100 participants and that evidence from
- 19 direct comparisons of electrotherapy with other interventions was uncertain. Based
- 20 on additional evidence published since the 2014 guideline, the committee agreed
- 21 there is not enough evidence to recommend electrotherapy, including
- transcutaneous electrical nerve stimulation (TENS), for people with osteoarthritis.
- 23 Extracorporeal shockwave therapy showed some evidence of benefit compared with
- 24 a sham intervention. However, this evidence was uncertain because of the small trial
- 25 sizes and challenges in using appropriate sham techniques. The committee agreed
- that further research using an appropriate sham with more than 50 participants in
- each study arm is needed and made a recommendation for research on
- 28 extracorporeal shockwave therapy.

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1 How the recommendation might affect practice

- 2 The committee noted that although the use of some electrotherapy modalities in the
- 3 NHS has decreased, other modalities with unclear evidence of benefit continue to be
- 4 used. Also, people with osteoarthritis may self prescribe electrotherapy devices. This
- 5 recommendation may reduce the prescription and use of TENS.
- 6 Return to recommendation

7 Devices

26

- 8 Recommendations 1.3.10 and 1.3.11
- 9 Why the committee made the recommendations
- 10 Evidence from a small study on walking aids showed that they benefit quality of life
- and reduce pain compared with no device. There was no evidence on adverse
- 12 events, but the committee agreed that the chance of adverse events with walking
- aids was minimal. They agreed that the evidence, supported by their expert opinion,
- was enough to recommend walking aids for people with lower limb osteoarthritis.
- 15 The committee concluded that there was not enough evidence to support the use of
- insoles, braces, tape, splints or supports. They also noted that there is a potential
- 17 risk that some of these devices could cause significant adverse events, such as
- 18 blistering and other pressure damage. The committee acknowledged that research
- on devices has challenges, such as appropriate sham devices for comparisons.
- 20 The committee agreed that further research is needed on devices, through studies
- 21 that have a larger number of participants, sufficient blinding and allocation
- 22 concealment. Because most of the evidence was for knee osteoarthritis, they made
- 23 a recommendation for research on devices for painful foot and ankle osteoarthritis.
- 24 The committee also noted that evidence on footwear had limitations, and made a
- 25 <u>recommendation for research on footwear for managing lower limb osteoarthritis</u>.

How the recommendations might affect practice

- Use of devices for osteoarthritis is inconsistent in current practice. Currently, insoles,
- 28 braces, tape or supports may be used by some people with osteoarthritis because
- 29 they were previously recommended by NICE. The recommendations may change

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- 1 practice with using devices. But, the practice of using walking aids is unlikely to
- 2 change. There is a potential for some cost savings to the NHS.
- 3 Return to recommendations
- 4 Topical, oral and transdermal medicines
- 5 Recommendations 1.4.1 to 1.4.9
- 6 Why the committee made the recommendations
- 7 The committee agreed that pharmacological treatments may be useful for reducing
- 8 symptoms and supporting people to start other more effective treatments, such as
- 9 therapeutic exercise. However, they noted that the risks of pharmacological
- 10 treatments should be understood and that treatments should not be overused or
- 11 used when they are not needed. The committee agreed that it was difficult to define
- treatment strengths and durations that would be generalisable to everyone. This is
- 13 because people with osteoarthritis can have a variety of comorbidities and factors
- 14 that might influence treatment. Therefore, the committee emphasised that treatments
- should use the lowest effective dose for the shortest possible time.
- 16 Topical non-steroidal anti-inflammatory drugs (NSAIDs) were clinically effective in
- 17 reducing pain for people with knee osteoarthritis and generally the most cost-
- 18 effective medicine for osteoarthritis. They were also associated with minimal adverse
- 19 events. Evidence on topical NSAIDs came from studies including people with knee
- 20 osteoarthritis and 1 study including people with hand osteoarthritis. The evidence
- 21 showed no clinically important difference for hand osteoarthritis, but the committee
- 22 noted this was uncertain because it was based on 1 study. The committee noted that
- 23 although evidence only showed benefit for knee osteoarthritis, other osteoarthritis-
- 24 affected joints may also benefit from topical NSAIDs. There was some evidence
- 25 showing that topical capsaicin reduces pain in knee osteoarthritis, but not hand
- osteoarthritis, and has minimal adverse events. However, capsaicin is more
- 27 expensive and topical NSAIDs were considered a better option. The committee
- 28 made a recommendation for research on topical medicines for osteoarthritis-affected
- 29 joints other than the knee.

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- 1 Oral NSAIDs were found to be cost effective and evidence showed they slightly
- 2 reduced pain and increased physical function. The committee acknowledged the
- 3 Medicines and Healthcare products Regulatory Agency (MHRA) safety warnings on
- 4 NSAIDs for cardiovascular safety, renal safety and gastrointestinal risk. They agreed
- 5 that NSAIDs, as well as other pharmacological treatments for osteoarthritis, should
- 6 be used for as short a time as possible and that the potential harms for
- 7 gastrointestinal, cardiovascular and liver and kidney adverse events should be
- 8 carefully considered when prescribing.
- 9 Evidence showed that adding gastroprotection can reduce gastrointestinal bleeding
- or perforation. However, this was associated with an increase in cardiovascular
- 11 adverse events compared with oral NSAIDs alone. The committee agreed that this
- may be unrelated to the addition of gastroprotection and that randomised controlled
- trial evidence alone may not be the best source for safety evidence, because the
- 14 population size and length of follow-up are usually limited. Therefore, they also used
- their clinical experience and guidance from other organisations, including the MHRA.
- 16 Based on this, the committee agreed that gastroprotection may be helpful for some
- people, such as those at risk of gastrointestinal bleeding, and recommended
- 18 considering its use while prescribing NSAIDs.
- 19 Evidence showed that opioids also have the potential for harm, including
- 20 gastrointestinal and central nervous system adverse events. The committee
- 21 acknowledged further potential harms such as physical dependence, opioid-induced
- 22 hyperalgesia and tolerance. Cost-effectiveness evidence showed that
- buprenorphine, a transdermal opioid, was generally more cost effective than oral
- 24 strong opioids (such as morphine, oxycodone and tramadol). This evidence was
- 25 from people having buprenorphine who had not had opioids before, but this was
- 26 generally not the case for people having oral strong opioids. All people had already
- tried a type of analgesia such as NSAIDs or paracetamol. However, the committee
- 28 acknowledged the MHRA safety warning on opioids and recommendations in NICE's
- 29 guideline on medicines associated with dependence or withdrawal symptoms, which
- 30 advises against the use of modified-release opioids. Therefore, the committee
- 31 recommended against the use of strong opioids. Evidence from 1 small study of
- weak opioids showed a clinically important benefit in reducing pain. The committee

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- 1 agreed that there was not enough evidence of benefit and on potential risks.
- 2 Therefore, they did not recommend their use unless for short-term pain relief and if
- 3 all other pharmacological treatments are contraindicated, not tolerated or ineffective.
- 4 Although paracetamol has a low potential to cause adverse events, evidence
- 5 showed that it has no additional benefit in reducing osteoarthritis pain and improving
- 6 quality of life and physical function compared with placebo. Evidence on
- 7 glucosamine was inconsistent and the largest benefits were shown by smaller
- 8 studies that were of lower quality. Because glucosamine is not used in current
- 9 practice and there is no strong evidence of benefit the committee recommended
- against its routine use for people with osteoarthritis.
- 11 The committee determined that there was not enough evidence to make
- 12 recommendations on weak opioids, antiepileptics, antidepressants, rubefacients and
- 13 topical local anaesthetics. The committee made recommendations for research on
- 14 antiepileptics, antidepressants and weak oral opioids and topical local anaesthetics
- 15 for osteoarthritis. Duloxetine was not included in the recommendation for research
- 16 because many studies have already investigated its use, but there is less evidence
- 17 for other antidepressants that may be used more regularly in the NHS to manage
- 18 pain (such as tricyclic antidepressants). They did not make a recommendation for
- research on rubefacients because they did not think that these would benefit people
- 20 with osteoarthritis.
- 21 The committee agreed that pharmacological treatments should be periodically
- reviewed with the person. They recommended this should be done according to
- 23 clinical need.

24

How the recommendations might affect practice

- 25 Current practice in pharmacological treatment for osteoarthritis varies in the types of
- 26 treatments used and how people access treatment (such as buying medicines over
- 27 the counter instead of accessing them through healthcare services). These
- 28 recommendations may cause changes in current practice towards using medicines
- 29 for a shorter time, increasing use of topical NSAIDs, and reducing use of
- 30 paracetamol and opioids.

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1 Return to recommendations

2	Intra-articu	lar ini	ections
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3 Recommendations 1.4.10 and 1.4.11

4 Why the committee made the recommenda	ation	S
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- 5 There was no evidence showing that hyaluronan injections improved quality of life or
- 6 physical function, or reduced pain, in people with knee or hip osteoarthritis. Evidence
- 7 showed a potential harm for hip osteoarthritis. Limited evidence for other
- 8 osteoarthritis-affected joints showed inconsistent benefits and some potential harms.
- 9 Based on their expert opinion, the committee agreed that these results were
- 10 generalisable to other forms of osteoarthritis and that hyaluronan injections should
- 11 not be offered.
- 12 Evidence showed that corticosteroid injections had inconsistent benefits on
- improving quality of life and physical function for people with hip osteoarthritis, and
- reducing pain for people with knee osteoarthritis. There was also no evidence
- showing long-term benefit beyond 3 months. Given the potential benefits and
- 16 committee expert opinion, they agreed that intra-articular corticosteroids could be
- 17 considered for people with osteoarthritis if other treatments have not worked,
- provided the person was made aware that the injection would only provide short-
- 19 term relief. Based on their expert opinion, the committee agreed that this evidence
- was generalisable to other osteoarthritis-affected joints.
- 21 The committee acknowledged that there was a lack of consistent evidence on
- 22 corticosteroids (especially for non-knee joint sites), so they made a recommendation
- 23 for research on intra-articular corticosteroids.
- 24 There was some evidence from very small studies that showed a potential benefit of
- 25 stem cell injections. The committee noted that this is an experimental treatment and
- agreed that it should not be used outside research. They made a recommendation
- 27 <u>for research on intra-articular stem cell injections</u>.

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1 How the recommendations might affect practice

- 2 The recommendation for intra-articular hyaluronan injections reflects current practice
- 3 so the committee agreed there should be no change in practice or resource impact
- 4 to the NHS. Corticosteroid injections are used in current practice, but recommending
- 5 them only for the short-term relief of symptoms may lead to a reduction in their use
- 6 and a cost saving to the NHS.
- 7 Return to recommendations

10

26

8 Follow-up appointments

9 Recommendations 1.5.1 to 1.5.3

Why the committee made the recommendations

- 11 There was no evidence on follow-up for people with osteoarthritis. Therefore, the
- 12 committee based their recommendations on their expert opinion. In current practice,
- 13 follow-up is mainly symptom-led or people with osteoarthritis raise the condition as a
- 14 concern during follow-up consultations for other conditions. The committee agreed
- that symptom-led follow-up is likely to be appropriate for most people with
- osteoarthritis. This is because they may be able to self-manage their condition
- 17 effectively after getting information and guidance on management strategies.
- However, the committee also acknowledged that follow-up should focus on the
- 19 person's needs, so there are some situations in which planned follow-up may be
- 20 necessary. The committee noted that agreeing a specific time for people to seek
- 21 additional help if the management is not improving their symptoms is important. They
- 22 also agreed that it was important to manage osteoarthritis and other conditions the
- person may have holistically. Because there was no evidence in this area the
- 24 committee also made a recommendation for research on the effectiveness of patient-
- 25 <u>initiated compared with routine follow-up.</u>

How the recommendations might affect practice

- 27 These recommendations generally reflect current practice. Because they include self
- 28 management and pre-existing appointments for other conditions, they are unlikely to
- 29 cause a substantial increase in costs.
- 30 Return to recommendations

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1 Imaging for management of osteoarthritis

- 2 Recommendation 1.5.4
- 3 Why the committee made the recommendation
- 4 There was no evidence on using imaging to manage osteoarthritis. Therefore, the
- 5 committee used their expertise to inform the recommendation. They acknowledged
- 6 that imaging was important for confirming the severity of structural joint changes
- 7 when planning or considering surgery. But it was unclear who should do this imaging
- 8 because some surgeons may only accept a referral for surgery if they are provided
- 9 with imaging results, whereas others may prefer to do their own imaging after
- 10 referral. However, in most cases, imaging should not be needed for managing
- osteoarthritis because it does not guide how the condition will respond to treatment.
- 12 The committee made a recommendation for research on using imaging to inform
- 13 non-surgical management of osteoarthritis.

14 How the recommendation might affect practice

- 15 The recommendation reflects current practice, so the cost impact is likely to be
- minimal. It may be cost saving by reducing the use of imaging for people with
- 17 osteoarthritis.
- 18 Return to recommendation

19 Referral for joint replacement

20 Recommendations 1.6.1 to 1.6.4

21 Why the committee made the recommendations

- 22 Evidence on referral criteria for joint replacement was limited. This evidence
- 23 suggested that non-response to analgesics may be associated with a need for joint
- 24 replacement. Longer duration of symptoms did not appear to be associated with the
- 25 need for joint replacement, which may show that the symptom duration is less
- 26 relevant than non-response to treatments. Evidence for the Oxford Hip and Knee
- 27 scores and the Knee injury and Osteoarthritis Outcome score (KOOS) and Hip
- disability and Osteoarthritis Outcome Score (HOOS) summary score showed that
- 29 these numerical scales alone were unlikely to determine whether someone should

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- 1 have surgery, so they were not recommended for use. The committee agreed that
- 2 the decision to refer someone for joint replacement should be based on clinical
- 3 assessment after trying all appropriate treatments. Given the absence of evidence,
- 4 the committee made a <u>recommendation for research on indicators for joint</u>
- 5 replacement in people with osteoarthritis.
- 6 Evidence on weight loss before surgery showed that, after hip or knee replacement,
- 7 there was no difference in outcomes for people in different BMI categories. People
- 8 who were overweight or obese based on BMI did not have an increased mortality
- 9 rate after surgery and had improved health-related quality of life and patient-reported
- 10 outcome measures. For people who were underweight based on BMI, evidence
- 11 showed an increased mortality rate. However, the committee considered that this
- may be due to comorbidities and that the effect may be exaggerated by the smaller
- 13 number of underweight participants in studies. Some studies combined the healthy
- weight group with the underweight group, which made interpreting the evidence
- more difficult. The committee acknowledged that BMI can give a false impression of
- the risks and that other factors need to be considered, such as comorbidities. The
- 17 committee concluded that BMI, and other measurements of whether someone is
- overweight or obese, should not be a barrier to joint replacement. They also
- 19 concluded that the varying risks of surgery in relation to a person's BMI should be
- 20 explained.

26

- 21 Similarly, the committee agreed that everyone should be treated equally, and people
- 22 should not be excluded from referral for joint replacement based on their age, sex,
- 23 smoking habits or comorbidities. They agreed that there are few contraindications to
- 24 surgery and the surgeon would be best placed to assess and discuss suitability of
- 25 joint replacement on a case-by-case basis.

How the recommendations might affect practice

- 27 Current practice is inconsistent, despite previous NICE recommendations. If all
- centres adopt these recommendations, then it may lead to an increase in the number
- of referrals for surgery and subsequently more joint replacements done overall.
- 30 Return to recommendations

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1 Arthroscopic procedures

2 Recommendation 1.7.1

3 Why the committee made the recommendation

- 4 There was no evidence showing that arthroscopic procedures reduce pain and
- 5 improve physical function. Evidence also showed possible harms with arthroscopic
- 6 procedures compared with sham procedures. Cost-effectiveness evidence showed
- 7 that arthroscopic procedures were more costly than standard care.
- 8 The committee agreed that arthroscopic procedures were not commonly used in
- 9 clinical practice for osteoarthritis.

10 How the recommendation might affect practice

- 11 The recommendation reflects current practice, so there should be no change in
- 12 practice or resource impact.
- 13 Return to recommendation

14 Context

- 15 Osteoarthritis is the most common form of arthritis. It typically presents with joint
- symptoms such as pain and stiffness, mostly affecting the knee, hip, hand and foot
- 17 joints. Symptoms vary from mild and intermittent, to more persistent or severe. The
- 18 condition does not inevitably get worse, but symptoms fluctuate and flare-ups are
- 19 common. Osteoarthritis has a negative impact on daily activities, quality of life and
- 20 health outcomes. It can affect people's physical, social and emotional life; more than
- 21 half of people with osteoarthritis report that it seriously affects their family and
- 22 working life.
- 23 Osteoarthritis is more common in women, people living in deprived areas, people
- 24 aged 45 and over and people living with obesity. The prevalence of osteoarthritis is
- increasing. Many people with osteoarthritis have multiple long-term conditions,
- 26 making their care more complex.
- 27 NICE produced a guideline on the care and management of osteoarthritis in 2014.
- 28 This updated guideline makes recommendations on diagnosing and managing

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- 1 osteoarthritis, based on new evidence. This includes information and support, non-
- 2 pharmacological and pharmacological treatments, follow-up, and referral for joint
- 3 replacement. The aim of this guideline is to improve management of osteoarthritis
- 4 and the quality of life for people with the condition.

5 Finding more information and committee details

- 6 To find NICE guidance on related topics, including guidance in development, see the
- 7 NICE webpage on arthritis.
- 8 For details of the guideline committee see the committee member list.

9 Update information

- 10 This guideline is an update of NICE guideline CG177 (published February 2014) and
- 11 will replace it.
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