

Point of care tools in preventing overuse of care

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Conflict of interest statement

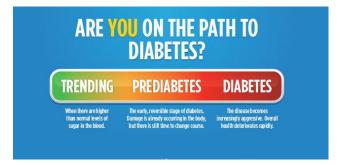
I am Deputy Head of Content at the BMJ Knowledge Centre, and responsible for content creation and updating for BMJ Best Practice our Point of Care clinical decision support tool, which could be perceived as a direct or indirect conflict of interest in the context or content of this presentation.



The problem









What are point of care tools and how can they help?

- Support clinical decision making
- > Structured around the clinical workflow for use in routine care
- Constantly updated with the latest evidence-based research and guidelines
- ➤ Integrate evidence and expert opinion to offer step-by-step guidance on diagnosis, prognosis, treatment and prevention

Therefore can be used to:

- Educate and identify potential overdiagnosis issues
- Support shared decision making







- > Herniated nucleus pulposus (HNP)
- > Spinal stenosis
- > Compression fracture
- > Degenerative disc disease or facet arthropathy

Uncommon how all

> Spondylolysis and/or spondylolisthesis

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Urgent considerations

See Differential diagnosis for more details

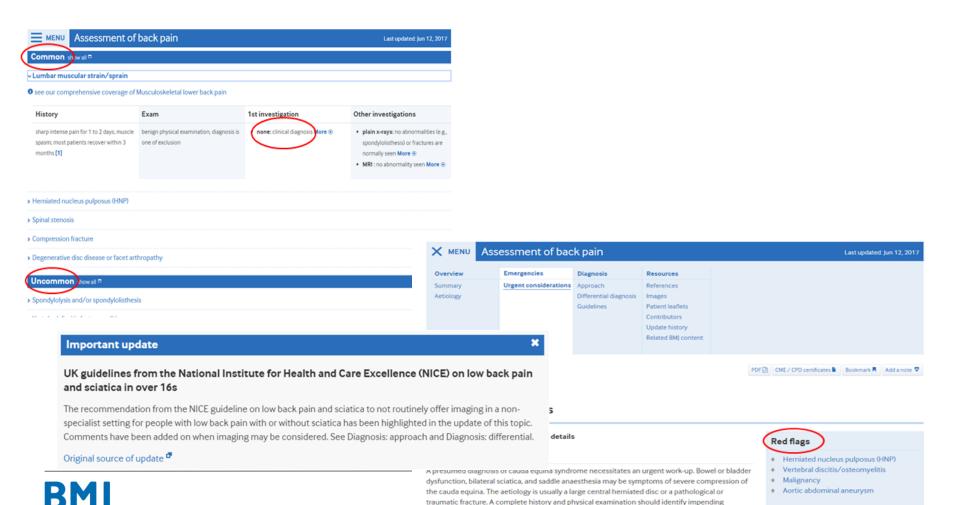
Cauda equina syndrome

A presumed diagnosis of cauda equina syndrome necessitates an urgent work-up. Bowel or bladder dysfunction, bilateral sciatica, and saddle anaesthesia may be symptoms of severe compression of the cauda equina. The aetiology is usually a large central herniated disc or a pathological or traumatic fracture. A complete history and physical examination should identify impending

Red flags

- Herniated nucleus pulposus (HNP)
- Vertebral discitis/osteomyelitis
- Malignancy
- Aortic abdominal aneurysm





Diagnostic investigations

1st investigations to order show all

Test	Result
> clinical diagnosis	typical musculoskeletal back pain

Investigations to consider show all

Test	Result
> lumbar spine x-ray	degenerative changes
> lumbar spine MRI	visualises scar tissue and degenerative changes
> lumbar spine CT	identifies bony pathology
> myelography	absence of disc herniation and spinal stenosis
> FBC	normal
> ESR	normal
> C-reactive protein (CRP)	within normal limits



Step by step management

Consult your local pharmaceutical database for comprehensive drug information including contraindications, drug interactions, and alternative dosing.

Patient group	Treatment line	Treatment showall ^{III}
very low-risk disease		
<10 years' projected survival	1st	> expectant management
10-20 years' projected survival	1st	> expectant management
• ≥20 years' projected survival	1st	> expectant management
	1st	> brachytherapy
	1st	> external beam radiation therapy
	1st	> radical prostatectomy ± lymph node dissection



Diagnostic investigations

1st investiga

√ lumbar spine x-ray

Test

> clinical diagno:

Investigation

Test

> lumbar spine x

> lumbar spine N

> lumbar spine C

> myelography

> FBC

> ESR

X-rays may be sufficient for the initial evaluation of the following patient groups: recent significant trauma (at any age), osteoporosis, or age >70 years. [37] In this group, however, the American College of Radiology (ACR) advocates the use of MRI spine without contrast as the first-line investigation. [37]

Can eliminate fracture, spondylolisthesis, or tumour diagnoses.

It is reasonable to order this test if any other ACR red-flag symptoms are present, although MRI is the preferred modality. [37]

X-rays should not be ordered for non-specific LBP of <6 weeks' duration as it has no effect on outcomes. [36] [38] [39]

> C-reactive protein (CRP)

within normal limits





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options may be to take a wait-and-see approach and hold off on treatment for the time being (expectant management).

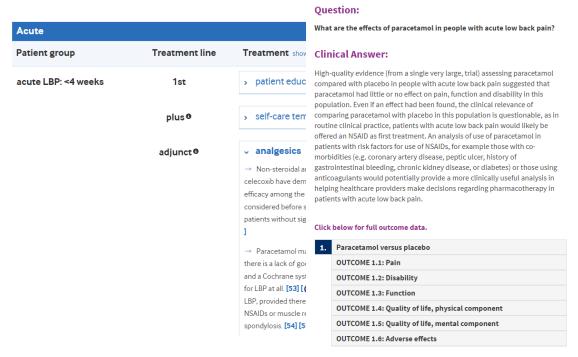
- How long you're likely to live (your life expectancy). This is based on your age
 and your health. If you are older or if you have other serious health issues, your
 prostate cancer may never cause problems in your lifetime and you may decide to
 hold off on treatment. However, if you are younger and otherwise in good health,
 there's a higher chance that your cancer will eventually spread and cause problems.
 So, your doctor may recommend having one or more treatments to get rid of the
 cancer.
- Your preferences. Your views and preferences play an important role in determining what treatments you have. For example, you may decide you're comfortable living with an untreated cancer if it means you can avoid the side effects of treatments. On the other hand, you may decide that getting rid of the cancer is the most important thing for you, and you want the most aggressive treatments, regardless of the possible side effects. Your doctor will fully explain all your options, and help you make a decision based on what is most important to you. ...





Provide a concise summary of the results of a Cochrane Review with sufficient underlying data to allow:

- Application of the results to a specific patient group
- Understanding of the strength of the evidence supporting conclusions about key clinical outcomes

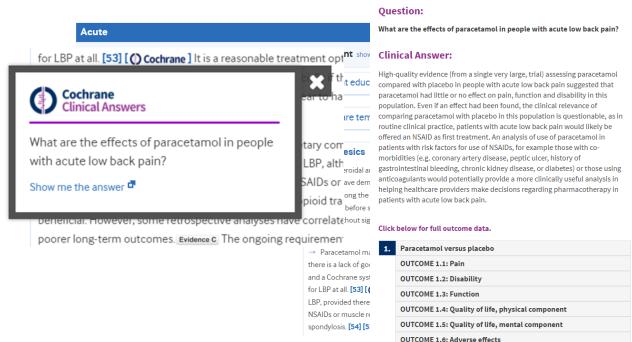






Provide a concise summary of the results of a Cochrane Review with sufficient underlying data to allow:

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Rapid Recommendations - Accelerating Evidence Into Practice

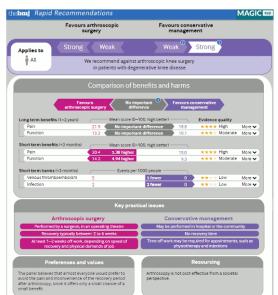


Osteoarthritis

Last updated: May 23, 2017

Arthroscopic surgery is not effective for knee OA. [13] Clinical guidelines advocate against the use of arthroscopic surgery in knee OA. This guideline is based on a lack of high-quality evidence demonstrating that arthroscopic surgery leads to better outcomes compared with conservative management techniques. [100]

[BM] Rapid Recommendations: arthroscopic surgery for degenerative knee arthritis and meniscal tears]



BMJ Rapid Recommendations: arthroscopic surgery for degenerative knee arthritis and meniscal tears

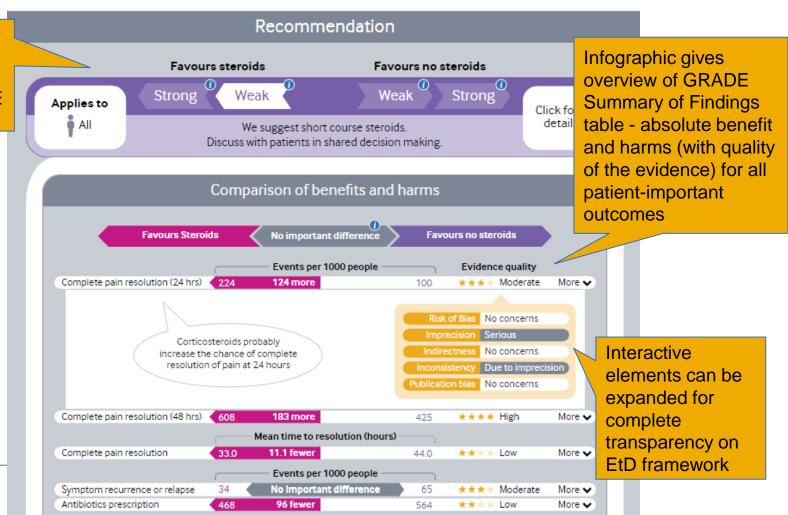
Siemieniuk RAC, et al. BMJ. 2017;357:j1982







Recommendation with strength as defined by GRADE







Time to complete relief

Practical issues

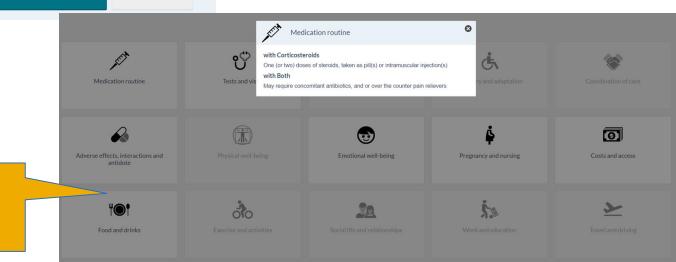
Pain resolution at 2 days

Patient values and preferences put evidence in context, and especially for weak recommendations, means that evidence-informed shared decisions can be made with individual patients.

Compare relative benefits and harms of selected outcomes that matter to individual

Pain resolution at 1 day

Evidence-informed information regarding preferences and values



Next steps

- To get user and customer feedback on these ideas and to identify any other areas of potential development
- •To set up a pragmatic trial to evaluate whether these features can help reduce overuse of care in clinical setting
- Consider creation of dedicated user journeys or virtual care pathways in BMJ Best Practice



