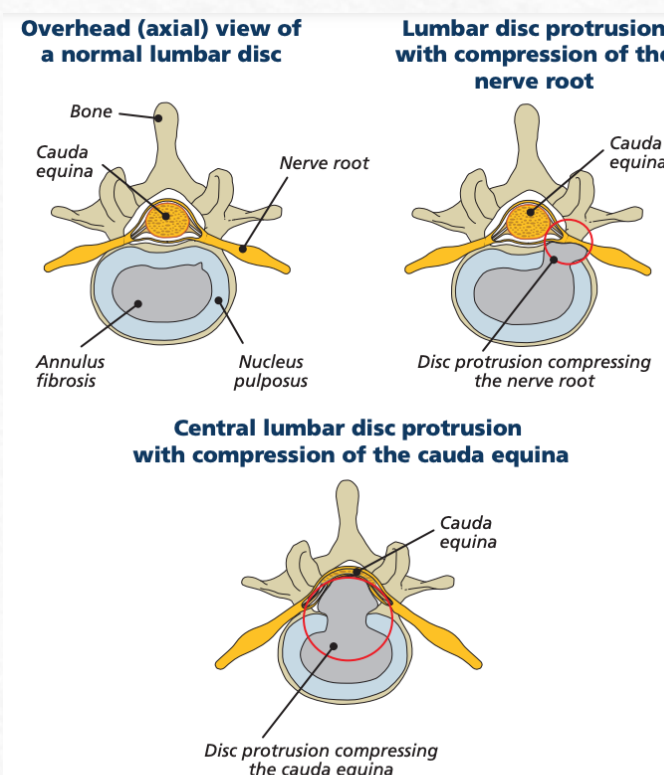


The commonest cause for cauda equina syndrome is an acute lumbar disc protrusion, involving a very large fragment of disc material which protrudes centrally into the spinal canal. This is a different situation, to when a lumbar disc protrudes and compresses on a nerve root(s), which branch out at the side of the spinal column and travels down to the corresponding leg(s). This could cause radicular pain, commonly known as sciatica and not cauda equina syndrome (see diagrams opposite).



Other causes of cauda equina syndrome include:

- a more modest acute disc bulge, in the presence of severe spinal stenosis (narrowing of the central spinal canal) from degenerative changes such as facet joint arthritis
- a spinal tumour
- an infection, haemorrhage (bleed), cysts/fatty collections or inflammation in the spine
- severe spinal injury, such as a fracture, stabbing or gunshot incident

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- a birth defect, such as an abnormality with the blood vessels (arteriovenous malformation - AVM).
- In certain circumstances, such as in spinal stenosis, symptoms may come on more gradually and can often be mistaken for signs of simply 'getting older'.

Presentation in Secondary Care

Has the patient developed any of the following in the last 14 days?

New (≤ 14 days) or deteriorating difficulty initiating micturition or impaired sensation of urinary flow

New (≤ 14 days) or deteriorating altered perianal, perineal or genital sensation S2-S5 dermatomes - area may be small or as big as a horse's saddle (subjectively reports or objectively tested)

Severe or progressive neurological deficit of both legs, such as major motor weakness with knee extension, ankle eversion, or foot dorsiflexion

New (≤ 14 days) or deteriorating loss of sensation of rectal fullness

New (≤ 14 days) or deteriorating sexual dysfunction (achievement of erection or ability to ejaculate, loss of genital sensation)

Select the answer

NO

YES

Has the patient developed any of the following?

Sudden onset bilateral radicular pain or unilateral radicular leg pain that has progressed to bilateral

14 days or more difficulty initiating micturition or impaired sensation of urinary flow

14 days or more altered perianal, perineal or genital sensation S2-S5 dermatomes - area may be small or as big as a horse's saddle (subjectively reports or objectively tested)

14 days or more loss of sensation of rectal fullness

14 days or more sexual dysfunction (achievement of erection or ability to ejaculate, loss of genital sensation)

Select the answer

NO

YES

Are symptoms static or deteriorating?

Static or No new CES symptoms

Deteriorating or New CES symptoms

Reassure patient and write to the GP for ongoing care

Static or No new CES symptoms

Acquisition / urgency of MRI is at clinician's discretion

Urgent referral to MSK triage service

To be seen within 2 weeks, highlight referral as Urgent / Bilateral Radicular Pain and document:

- signs
- symptoms
- frequency
- duration
- progression
- time and date of assessment
- subjective perianal sensation
- document no CES symptoms or signs
- safety net the patient

Triage patient for CES symptoms

Static or No new CES symptoms

Deteriorating or New CES symptoms since referral

Acquisition / urgency of MRI is at clinician's discretion

Follow pathway for Posterior Lumbar Decompression / Discectomy which includes non-operative treatment

Safety net the patient video and card

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