

National Backpain Pathway – Clinical Network

Early Recognition of Cauda Equina Syndrome



A Framework for Assessment and Referral

for Primary care / MSK interface services

Cauda Equina Syndrome (CES) is a time dependent spinal surgical emergency. If symptoms are suggestive of early CES then immediate referral should be made. Verbal safety netting should be supported with written information.

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This document has been developed to support clinicians working in primary care or in MSK interface services. Secondary care services should follow BASS/SBNS Standards of care for investigation & management of CES.

Presentations that increase the probability of acute / threatened Cauda Equina:

Back pain with:

- Presence of new saddle anaesthesia, bladder or bowel disturbance.
- Age < 50.
- Radicular pain
 - Unilateral radicular leg pain progressing to bilateral.
 - o Sudden onset bilateral radicular leg pain.
 - o Alternating radicular leg pain.
- Presence of new motor weakness.
- Obesity.
- Previous CES.
- Known developmentally narrow spinal canal.

Presentations that are not likely to be managed with emergency spinal surgery:

- Urinary or bowel disturbance that has been present for more than 4 weeks and is not deteriorating.
- Older people with symptomatic spinal stenosis in the absence of acute bladder disturbance.

Your local pathway should:

- Have Cauda Equina Syndrome patient information approved by local Regional Spinal Network.
- Include arrangements for access to emergency MRI and spinal surgical referral.
- Reflect the quickest option for referral to imaging (including action on the findings). This may be in primary or secondary care.
- Have arrangements for case discussion with a senior spinal clinician.
- Have arrangements for debriefing clinicians who have been involved with the care of patients with confirmed Cauda Equina Syndrome.

Bilateral radicular leg pain:

The prevalence of bilateral radicular leg pain in primary care is not known. It is the opinion and experience of the NBP-CN committee that many patients present to primary care back pain services with bilateral leg pain.

In isolation, bilateral leg pain is not necessarily a red flag for suspecting Cauda Equina Syndrome. The limited evidence base is of poor quality and based on retrospective reviews of emergency or secondary care patients.

Concerning presentations are:

- Unilateral radicular leg pain progressing to bilateral radicular leg pain.
- Sudden onset bilateral radicular leg pain.

Patients with chronic bilateral radicular pain should always be issued with safety netting advice, outlining what they should do if CES symptoms develop.

Acute and/or progressive bilateral radicular leg pain with	Emergency Referral: This patient needs immediate
any other CES symptoms.	emergency MRI. Follow the local pathway for
	emergency referral.
Bilateral radicular leg pain with myotomal weakness or	Urgent Referral: Management depends on the duration,
dermatomal sensory loss, and no other CES symptoms.	progression and degree of neurological deficit. If acute gross motor weakness (< 3/5), or deteriorating neurology. Follow the local pathway for urgent referral and safety net patient regarding CES. If in doubt seek advice from a senior spinal clinician.
Bilateral radicular leg pain with normal neurology and no	Treat as per the radicular pathway.
other CES symptoms.	Safety net patient regarding CES.

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