

Standardisation of Emergency MRI Provision for the Purposes of Suspected Cauda Equina Syndrome West of England Imaging Network



Project Team

4 x MRI Radiographers & 2 x Consultant Radiologists 2 x MSK Physiotherapists, 2 x Spinal Surgeons, 1 x GP and two Quality Improvement Facilitator — Gloucestershire Hospitals NHS Foundation Trust | Great Western Hospital, Swindon | North Bristol NHS Trust, Southmead Hospital | The Royal United Hospital Bath | Somerset NHS Foundation Trust, Yeovil & Taunton | Salisbury NHS Foundation Trust | University Hospitals NHS Foundation Trust in Bristol | Weston Super Mare Hospital

About the Project

Cauda Equina Syndrome (CES) is a rare and serious spinal emergency which can lead to lower limb paralysis and loss of bowel, bladder and sexual function if not assessed and treated urgently. The condition affects 1-3 people per 100,000 population in England and there are around 8,000 suspected cases every year.

This is a topic that has generated much discussion nationally following the GIRFT Speciality report for Spinal Services in 2019, the HSIB review in 2021 and publication of GIRFT National CES guidelines in 2023 which set the gold standard of providing 24 hour access to MRI for emergency patients with potential CES.

The provision and accessibility to MRI across a 24-hour timeframe is dependent on local service specification and speciality.

If a patient requires transfer to a specialist centre the turnaround time for a blue light ambulance service can often lead to the recommended four-hour window for imaging being exceeded, impacting on the timely diagnosis and decision to treat surgically.

Aims & Objectives

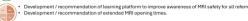
To increase the provision of 24/7 Emergency MRI imaging for suspected CES from 20% to 70% by June 2025 Increase access to MRI safety Education for all referrers to 50% by June 2025

Quality Service Improvement and Redesign (QSIR) Tools: Methodologies used and contribution to your project









Project Outcomes, Progress and Impact

- Work is continuing on the workstreams that resulted from the CES project. (Therefore data is still being collected).
- It was found that there was a huge discrepancy between waiting times across the WOEIN area, directly related to MRI opening hours and referral times.
- A Quality Improvement Network has been established across the region and Radiographers are now being utilised on other quality projects within Radiology departments.
- An overall feeling amongst participants of greater confidence and empowerment, along with a greater understanding of Quality Improvement techniques.
- Extended opening hours at Great Western Hospital MRI for CES patients during the week.
- MRI Safety Education has been added to the eLearning platforms at Gloucester Hospitals NHSFT and Somerset NHSFT.
- The seven Trusts which make up the WoEIN network each use a different IT systems. As a direct result of the project, they have now jointly procured a new software that facilitates image and information sharing across the entire Network.

Measures Used

Outcome Measure

Provision of 24/7 Emergency MRI imaging for suspected CES across the network.

Access to MRI safety Education for all referrers

Process Measures

Number of Hospital Trusts who agree to match MRI and ED opening times.

Number of Hospital Trusts who agree to provision of MRI safety training.

Balancing Measures

Radiographer on-call hours and call in times. Variation in patients presenting with CES cannot be easily predicted

Next Steps

Extended opening hours still need to be agreed, particularly at Weston General Hospital where patients have to be transferred to the Bristol Royal Infirmary during the OOH period.

A standardised MRI Safety Education module is being developed for the Network.