

Quality Improvement Project

By Rakshanda Sadavarte Foundation Year Two Doctor

March 2025

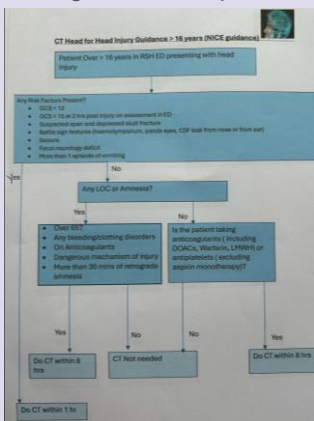
REASON WHY?

Around 200,000 people are admitted with head injuries in the UK. Prompt and accurate diagnosis is essential to ensure appropriate management and to prevent any complications. The NICE guidance provide evidence based recommendations for the use of CT head scans to identify intracranial injuries in patients with head trauma

PLAN

I aimed to look at head injury CT data in the Royal Shrewsbury Hospital emergency department. I reviewed data from December 2024 and February 2025.

Following engagement and discussion with the ED QI lead at Royal Shrewsbury Hospital, it was decided that a poster with education could be implemented to see if there are changes and improvement to NICE CT guidance compliance.



DO

I looked at CT head data of 40 patients who presented with head injuries in RSH ED in December 2024. I reviewed each individual data set looking at whether the patient fulfilled the NICE guidance for having a CT head scan. I also looked at each patient's outcome- whether they were discharged or admitted. I then distributed posters to the ED resident doctors during January 2025. I then relooked at 40 datasets in February 2025 to see if there was an improvement. The process ran smoothly distributed successfully in the department.

Feedback was positive during the testing phase, with numerous resident doctors explaining that the posters had made a difference to decision making when ordering CT head scans.

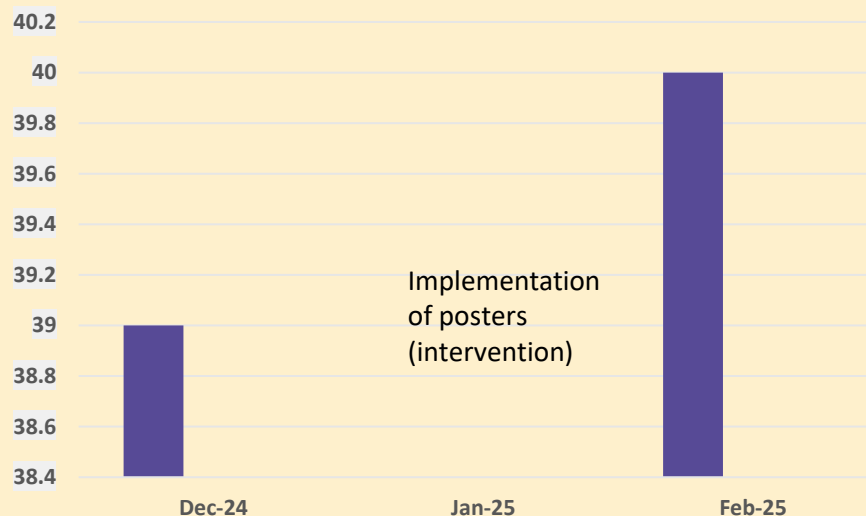


To improve compliance to NICE CT head guidance to 100% by 31st March 2025.

STUDY

In December 2025- 39/40 patient data sets fulfilled the NICE guidance. After implementation of the poster in January 2025, there was 100% compliance in fulfilling the NICE guidance for CT heads in March 2025.

Improvement in CT NICE Guidance



ACT

The test of change proved highly effective in seeing the NICE guidance head injury target to 100%.

The posters will continue to be distributed to resident doctors in SATH to maintain compliance.

ACKNOWLEDGEMENTS & REFERENCES | Thank you to Dr Safi (ED registrar) and Dr Marsh (ED consultant) for providing the data.