



**Case Study: NHFD Pelvic Fracture Data Collection Implementation
Royal Berkshire Hospital**

Background:

When we first became aware of the need to enter details of patients with pelvic fractures onto NHFD we were unsure how we would capture this data. We initially flagged the fact that we didn't have a mechanism for this on our Trust risk register.

Aim

To develop a reliable and sustainable process for identifying patients aged 60 years and over with pelvic fractures and ensuring they could be appropriately entered onto NHFD.

Process

We began by discussing with our colleagues in radiology options for using natural language processing / large language models to search the reports on our radiology system (Insight) to identify those showing acute pelvic fractures. We concluded that, while developing an appropriate in-house bespoke model would be feasible it would be costly in terms of time and finances and that perhaps using an existing programme would be more efficient.

Whilst we were exploring options for this, we realised that it was already possible to search the text of reports on Insight for specific terms and that this would be the most straightforward solution. Over a few months, we refined the most appropriate search terms to identify the correct patients.

A member of the admin team in radiology now runs a monthly search of the reports on Insight over the previous calendar month using the following criteria:

- Patients aged 60 years and over
- Report text includes the terms fracture or #
- Exam type: CT and X ray pelvis or CT and X ray hip
- Visit type: inpatient and ED

This data is provided in a spreadsheet to our NHFD data entry assistant who reviews the text of the reports, identifying those suitable for inclusion on NHFD. Where there is uncertainty there is discussion with one of the orthogeriatric consultants. Data is then entered onto the NHFD.

Outcomes

We are confident that we are now identifying the vast majority of patients with pelvic fractures and, as such, have removed this issue from the Trust risk register.