# From Imaging Findings to Fracture Liaison Service: are radiology reports for vertebral fragility fractures acted upon?



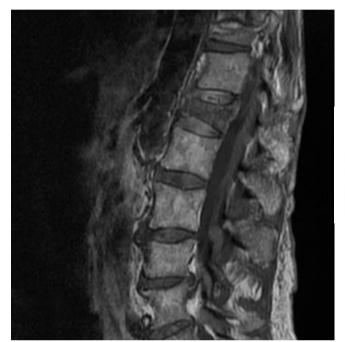
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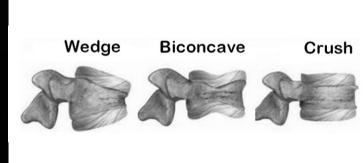
**Chelsea and Westminster Hospital NHS Foundation Trust** 

## **Background**

- Vertebral fragility fractures (VFFs) are common yet increasingly under-diagnosed on imaging.
- This is often a missed opportunity to refer patients to the fracture liaison service (FLS) for assessment and prevention of further fractures, at the detriment of patient morbidity and cost to the health service.
- National guidance is in place, which advocates the use of radiology alert systems for ensuring timely signposting of VFF cases to the FLS.

It is incumbent on the full multidisciplinary team to engage with an electronic alert system in order for it to be 'fail-safe'.





### **Literature Review**

Most vertebral fractures do not currently come to medical attention and thus remain undiagnosed

Incidental vertebral fractures have up to 41% risk of developing a further fracture in the subsequent year Severe vertebral fracture strongly predicts subsequent hip fracture

A previous investigation found that half of radiology alerts for critical or unexpected findings were not acted upon

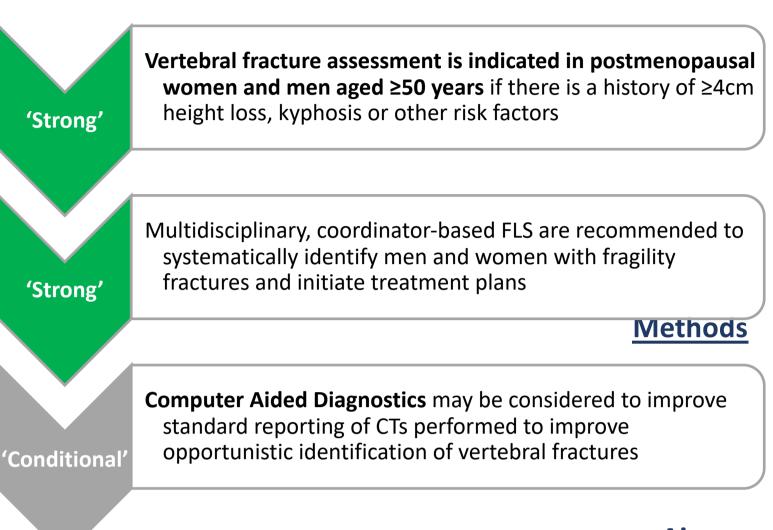
Guidance to be aware of!

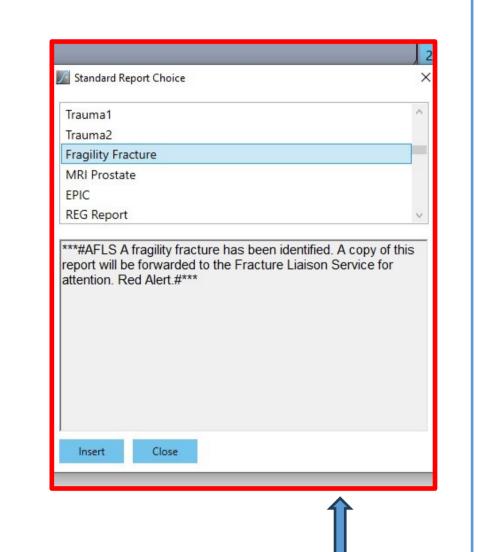


Radiological guidance for the recognition and reporting of osteoporotic vertebral fragility fractures (VFFs)

Clinical Radiology

# National Osteoporosis Guideline Group (NOGG) <sup>9</sup> recommendations





**Aims** 

- 1. Identify the number of vertebral insufficiency fractures in radiology reports which include the \*\*\*#AFLS\*\*\* auto-text
- 2. Investigate whether these patients reach the rheumatology clinic for assessment
- 3. Identify areas to improve this patient referral pathway

## **AUDIT STANDARDS**

100% of identified vertebral insufficiency fractures identified in radiology reports to include the required auto-text

100% of patients with autotext included in their reports to reach rheumatology clinic.

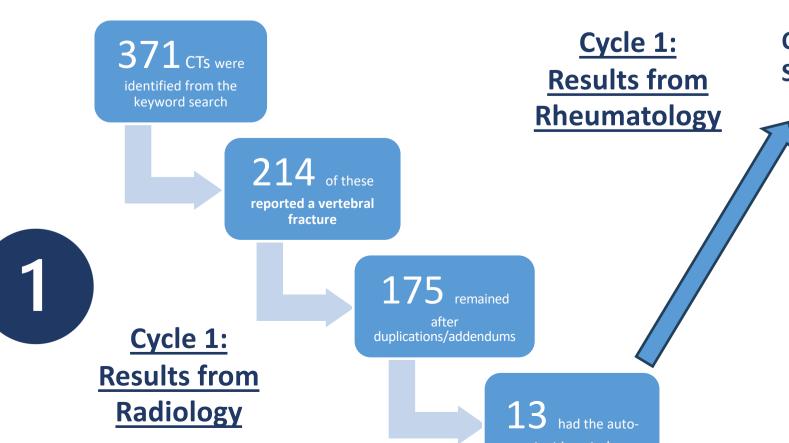
# **Methodology**

### Part 1:

- Review radiology CT reports from September 2022- November 2022 to identify those with vertebral insufficiency fractures.
  - Cohort of patients was searched via PACS including specific terminology
  - Patient age group >50 years male and female

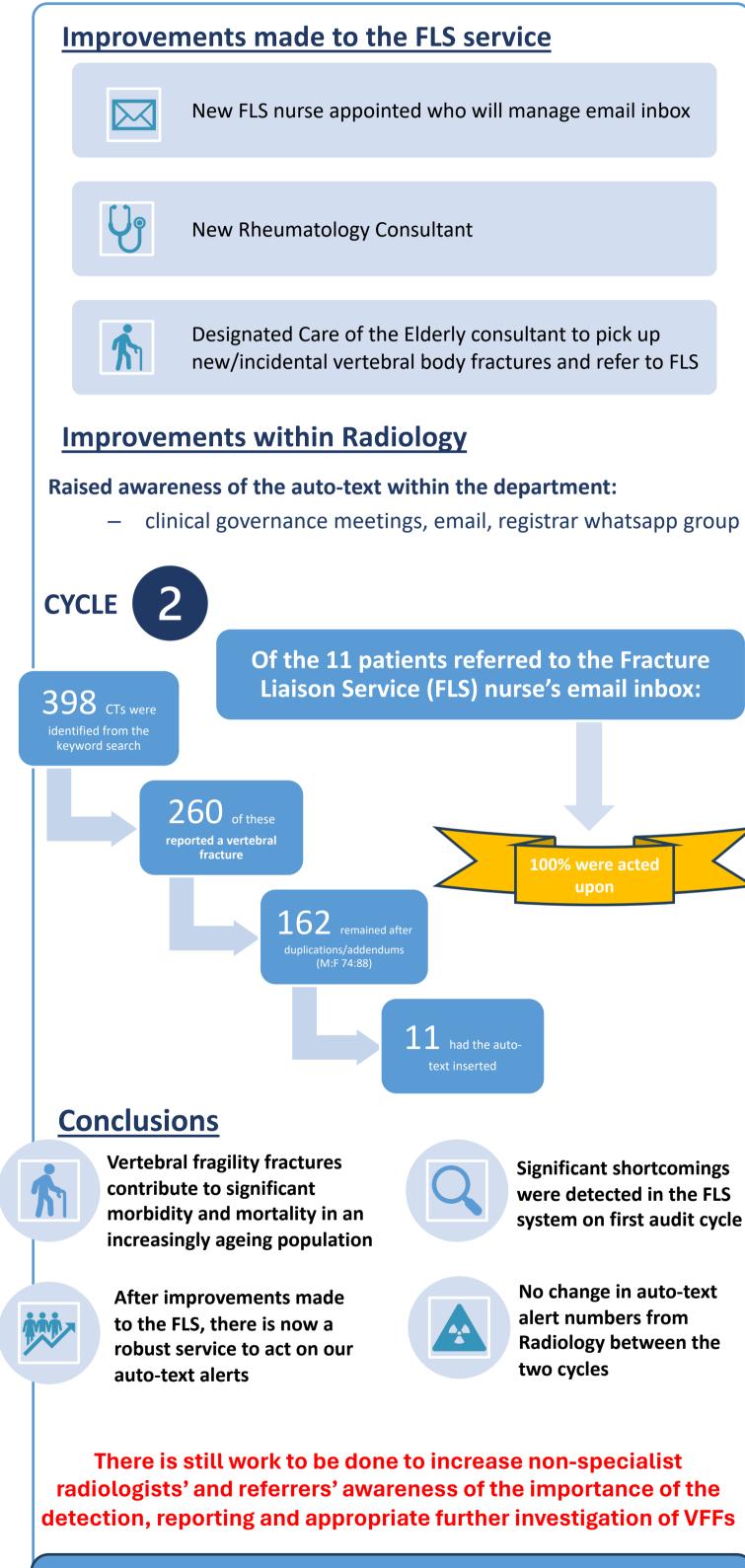
#### Part 2:

 Review rheumatology clinic records to determine whether these patients have attended rheumatology clinic and outcomes for patients



Of the 13/175 patients referred to the Fracture Liaison Service (FLS) nurse's email inbox:

- 100% of notifications were not acted upon
- 2 patients with the auto-text did not reach the email inbox
- 2 with the auto-text were referred via the GP
- 2 were already in the FLS service and were seen at the 16 week follow-up





**Consultant Rheumatologist** 

"Continued efforts by your department to flag these with auto-

text is much appreciated and extremely helpful"

**Contact details** 

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