

Breast Density Reporting and Standardisation in Breast Mammogram Reports

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Introduction

- Breast mammography aids in breast cancer detection as a 1st line investigation, with a primary benefit of reducing mortality due to its high accuracy [1].
- However, dense breast tissue remains a big obstacle, increasing the risk of missed cancers and false reassurance due to hidden tumours [2].
- Reporting breast density in mammography results provides patients and healthcare providers with insight into the likelihood of cancer detection based on parenchymal patterns[3].

Aims

- This audit aims to:
- (i) reinforce the **reporting of breast density** in mammogram reports and the standardisation of breast density report using a common template.
 - (ii) ensure reporter includes documentation of previous mammograms availability at time of reporting.
 - (iii) ensure at least 2-dimension measurement of lesion size is given.
 - (iv) ensure indication of mammogram was documented.

Standards

- For breast density reporting, the American College of Radiology (ACR) Breast Imaging-Reporting and Data Systemic (BI-RADS) Breast Density Composition is used. **Alphabetical A-D is used to described breast that are entirely fatty to entirely dense [4].**
- For standardisation of mammogram reports, both the Royal College of Radiologists (RCR) Breast Group breast imaging classification from 1-5 to describe normal to malignant findings [5] and ACR Breast Mammogram Reporting Guideline are used for mammogram report structure[4].
- Report structure must include indication, reference to past mammogram, breast density, and clear description of important findings such as mass described in the report must be measured in 2 dimensions.

Methods

- A retrospective analysis at Buckinghamshire Healthcare NHS Trust's Breast Imaging Department reviewed 790 mammogram reports from May to July 2023.
- A re-audit was carried out from April to July 2024 involving 783 reports.
- Inclusion criterion is mammograms from 2 week wait symptomatic clinics, excluding marker insertions and non-diagnostic mammograms.

