

A Comparison of Recall Rates between Full Field Digital Mammography (FFDM) and Full Field Digital Mammography Plus Tomosynthesis in a Community Setting

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OBJECTIVE

To compare recall rates using FFDM plus Tomosynthesis to those using FFDM alone in a screening population.

MATERIALS AND METHODS

An interim analysis of first 4000 patients from a retrospective review of ~10,000 consecutive asymptomatic patients who underwent routine screening mammography with FFDM+Tomosynthesis was conducted to review the recall rate, cancer detection and confirm the sample size. These images were reviewed by 13 radiologists and lesion type and follow-up were recorded for all recalled cases. The recall decision was recorded for each case.

FINDINGS

Of the first 4028 patients who underwent screening mammography with FFDM + Tomosynthesis:

- 232 cases were recalled using FFDM+Tomosynthesis (recall rate 5.76%)
- 355 cases were recalled using FFDM (recall rate 8.81%)

This represents a 35% relative reduction in recall rates for FFDM+Tomosynthesis compared to FFDM alone.

- 25 cancer cases recalled using FFDM+Tomosynthesis
- 19 cancer cases recalled using FFDM

CONCLUSION

Addition of tomosynthesis to conventional 2D FFDM in a routine screening population reduced the recall rate by approximately 35%.

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