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How to utilise tomosynthesis in diagnosing Invasive Lobular Carcinoma

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Abstract Body

Aim: To assess breast tomosynthesis in the detection of invasive lobular carcinoma in a screening population.

Methods: Retrospective review of pathology-proven ILC in a screening population recalled to assessment clinic from January 2013 to March 2014 who underwent two-view tomosynthesis in addition to standard digital mammography work-up.

Results: The diagnostic accuracy of two-view breast tomosynthesis is superior to single-view breast tomosynthesis in the detection of invasive lobular carcinoma, and this is consistent across lesion size (<15mm, ≥15mm) and breast density (grade 1/2, grade 3/4). However, when only a single tomosynthesis view is utilised, an invasive lobular carcinoma is more commonly seen on the MLO rather than the CC projection.

Conclusion: For the diagnosis of invasive lobular carcinoma, two-view breast tomosynthesis demonstrates potential through improved identification compared with single-view tomosynthesis in this small sample study.