

# Impact on Recall Rates Following Implementation of Synthesized 2D Mammography in Digital Breast Tomosynthesis Screening

Zuckerman S, Weinstein S, Synnestvedt M, Korhonen K, McDonald E

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## Objective

The goal of this study was to evaluate a population screened entirely with synthesized 2D digital mammograms using Hologic's C-View™ software plus tomosynthesis (C-View+DBT). Recall rates and recall finding types from the C-View+DBT population were compared to similar historic outcomes from traditional digital mammography plus tomosynthesis screening (DM+DBT).

## Materials and Methods

Recall rates and lesion type were compared for 15,571 women screened with DM+DBT during the period from October 1, 2011 to February 28, 2013 and 2,090 women screened with C-View+DBT during the period from January 7th, 2015 to March 20th, 2015.

## Findings

The overall recall rate with C-View+DBT was 8.3% compared to 8.8% for DM+DBT ( $p=0.45$ ). In addition, C-View+DBT screening was not associated with a significant change in the distribution of recalled lesion type. Of particular interest, there was no change in the rate of recall for calcific lesions.

	C-View+DBT	DM+DBT
Overall Recall Rate	8.3%	8.8%
Recall Finding Types		
1. Calcifications	1.6%	1.6%
2. Masses	2.4%	2.7%
3. Asymmetries	3.8%	4.5%
4. Architectural Distortions	1.1%	1.0%
5. Technical Reasons	0.05%	0.2%

## Conclusion

This study demonstrated no significant difference in recall rates and lesion types when DM is replaced with C-View generated 2D images for use in combination with DBT. Ongoing data collection will allow comparison of cancer detection rates and PPVs.

[hologic.com](http://hologic.com) | [info@hologic.com](mailto:info@hologic.com) | +1.781.999.7300

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