

Digital breast tomosynthesis cuts recall rates by 40 percent

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Adding digital breast tomosynthesis to 2D mammography screening results in a 40% reduction in patient recall rates compared to routine screening mammography alone, a new study shows.

The study, conducted at Yale University School of Medicine in New Haven, CT, of 7,578 [screening mammograms](#), found that the recall rate was 6.6% for digital breast tomosynthesis plus 2D screening mammography. It was 11.1% for 2D screening mammography alone, said Melissa Durand, MD, one of the authors of the study.

Similar recall rates were seen in both groups for masses, but the recall rate was significantly lower with digital breast tomosynthesis and 2D mammography compared to 2D mammography alone for asymmetries and calcifications, said Dr. Durand. The recall rate was 2.8% for asymmetries when both techniques were used compared to 7.1% for routine screening mammography, she said. "Tomosynthesis, which is 3D mammography, allows us to look at the breast in 1 mm slices. In routine mammography, [breast tissue](#) is compressed and overlying tissue can look like a suspicious finding. Tomosynthesis resolves this by looking slice by slice," said Liane Philpotts, MD, a study author.

The [radiation dose](#) for the combined examination is below the Food and Drug Administration limit for mammography and below the dose of film mammography, noted Dr. Durand. "For now we are doing both examinations, but it may not be long before we will be able to do just the tomosynthesis exam. Researchers are working on ways to get a 2D image

out of the 3D data, and when that happens, there may be no need for the 2D examination," Dr. Philpotts said.

"Recalls from screening [mammography](#) incite considerable anxiety in women. With digital breast tomosynthesis, we are seeing a dramatic reduction in our recall rates which helps lessen our patients' anxiety. Fewer recalls means fewer additional [breast imaging](#) views, which is cost saving and may also reduce overall annual radiation dose," said Dr. Durand.

Provided by American Roentgen Ray Society

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