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Community Insider

September 30, 2021

## Women's Imaging Insider

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Dear Women's Imaging Insider,

Tomorrow marks the start of Breast Cancer Awareness Month in the U.S. Every year, we are reminded of breast cancer's prevalence worldwide.

However, we are also reminded of the promising research, new technologies, and improved therapies that aim to better detect and treat cancers early, as well as provide more peace of mind to patients.

One such new technology is a radiomics model based on dynamic contrast-enhanced MR images. The Italian research team that developed the model touted its promise in differentiating malignant from benign breast lesions. Find out how it works in this edition's [Insider Exclusive](#).

Digital breast tomosynthesis (DBT) is a technology that continues to show potential in accurately identifying breast cancers. Read how Brown University researchers found that DBT detected nearly [twice as many cancers](#) as conventional digital mammography in community practice settings.

**Monochromatic x-ray is a recent development that has been heralded for reducing cancer risk in mammography by dramatically reducing radiation dose. Read how a prototype model tested by Boston-area researchers reduced radiation dose per mammogram by a factor of five to 10 times.**

Plus, researchers say there's [no reason to fear](#) that performing digital mammography or DBT exams inadvertently on pregnant women poses a risk to fetal health. Find out what Portuguese researchers had to say about their findings.

Plus, check out the following women's imaging stories:

- MRI screening every four years for women with dense breasts can be more cost-effective than mammography every two years. Read how this screening strategy also [adds double the amount](#) of quality-adjusted life years.
- An artificial intelligence algorithm developed by researchers at New York University was able to significantly reduce false positives in breast ultrasound. Find out why the group believes this can help avoid the need for [one out of four biopsies](#).
- Performing baseline breast MRI scans in women with inflammatory breast cancer can help clinicians gauge the success of preoperative chemotherapy. Read how this research led by Brigham and Women's Hospital could [improve mastectomy outcomes](#).
- A team from the Memorial Sloan Kettering Cancer Center in New York City found that women who undergo radiation therapy to the left side of the chest to treat breast cancer are at [twice the risk](#) for coronary artery disease.

Find more articles like these by regularly visiting your [Women's Imaging Community](#)!



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## Insider Exclusive

### [Radiomics model helps differentiate breast lesions on MRI](#)

A radiomics model developed by an Italian research team shows promise in differentiating malignant from benign breast lesions on dynamic contrast-enhanced MR images, according to a study published September 29 in *Academic Radiology*.

[✉ EMAIL ARTICLE](#)



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