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Low-dose Imaging Technique (LITE) MRI: Introduction of a reduced-dosage dynamic contrast enhanced MRI technique in breast imaging

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Abstract:

Methods & Materials: Between October 2017 and April 2018, six patients (age range: 18-60) with a total of eight lesions (lesion size range: 0.5-2.0 cm as measured on ultrasound) with imaging features suggestive of a fibroadenoma were imaged. All lesions were ultimately either biopsy-proven or clinically-confirmed to be benign. Each patient underwent an IRB-approved dynamic contrast-enhanced MRI scan utilizing a novel dual-dose injection protocol. Pre-contrast scans including T2-weighted scans and high temporal resolutions scans were obtained. Next, 15% of the contrast was administered with post-contrast imaging including: Standard T1 weighted scans and high temporal resolution scans.

Approximately 10 minutes later, 85% of the contrast was administered with repeat post-contrast imaging similar to prior. Two radiologists reviewed the low-dose MR images and high-dose MR images to evaluate for: Lesion conspicuity, imaging characteristics and enhancement kinetics.

Biography:

Deepa Sheth has completed her MD at the University of Illinois at Chicago and graduate studies from University of Chicago Medicine. She is currently an Assistant Professor of Radiology at the University of Chicago Medicine, USA. She is an Oncology Radiologist who believes women should be empowered with options for the early detection, diagnosis and treatment of breast cancer. She is active in various multi-institutional clinical trials that evaluate MRI imaging as a tool to predict and classify potential malignancies. She has written or co-authored more than a dozen articles on breast cancer that have appeared in the American Journal of Roentgenology, European Journal of Radiology and Journal of Vascular Interventional Radiology

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