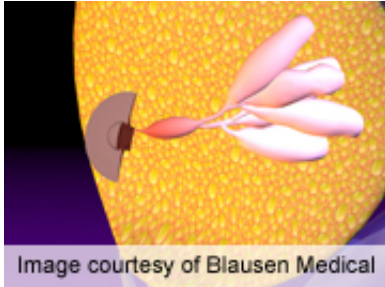


# MRI better detects recurrent breast cancer

19 August 2014



(HealthDay)—Single-screening breast magnetic resonance imaging (MRI) detects 18.1 additional cancers after negative findings with mammography and ultrasonography (US) per 1,000 women with a history of breast cancer, according to a study published in the August issue of *Radiology*.

Hye Mi Gweon, M.D., from the Seoul National University College of Medicine in South Korea, and colleagues evaluated cancer detection rates, cancer characteristics and MRI performance characteristics in 607 consecutive women ([median age](#), 48 years) with breast cancer who underwent breast conservation therapy (BCT). These women had negative mammography and US findings, and most underwent preoperative MRI examinations (91.8 percent).

The researchers found that MRI detected 11 additional cancers (18.1 cancers per 1,000 women). The [positive predictive value](#) (PPV) for recall was 9.4 percent (11 of 117 examinations), PPV for biopsy was 43.5 percent (10 of 23), and the sensitivity and specificity were 91.7 percent (11 of 12) and 82.2 percent (489 of 595), respectively.

APA citation: MRI better detects recurrent breast cancer (2014, August 19) retrieved 21 November 2019 from <https://medicalxpress.com/news/2014-08-mri-recurrent-breast-cancer.html>

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