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BSGI/MBI Proven to be Equivalent to MRI in the Detection of Breast Cancer
RSNA 2011 Presentation Compares BSGI/MBI vs. MRI

Newport News, Va., November 30, 2011 — Breast-Specific Gamma Imaging (BSGI), also known as Molecular Breast Imaging (MBI), has been found to be equivalent to Magnetic Resonance Imaging (MRI) as an adjunct imaging modality in the diagnosis of breast cancer. BSGI/MBI may be especially useful for the evaluation of high-risk women or those with dense breasts. These findings will be presented in an abstract at the 2011 Radiological Society of North America (RSNA) annual meeting to be held in Chicago, Nov. 27 through Dec. 2, 2011.

According to the study authors, MRI has become increasingly popular as an adjunct to mammography in the diagnosis of breast cancer. Despite its sensitivity in lesion detection, MRI is expensive and can cause patient discomfort. BSGI/MBI has similar sensitivity to MRI, costs less and is comfortable for the patient. This study aimed to directly compare the two modalities.

It was concluded that BSGI/MBI results led to further workup and detection of occult malignancies. In fact, negative MRIs without contradictory BSGI/MBI results would have led to six missed malignant tumors in this study. Also, the authors noted that as the study demonstrated BSGI/MBI's equivalency to MRI in the diagnosis of breast cancer, that BSGI/MBI may be useful for the evaluation of high-risk women or those with dense breasts. For this study BSGI/MBI was conducted with a high-resolution gamma camera, the Dilon 6800®.

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Beyond demonstrating that BSGI/MBI is equivalent to MRI in the diagnoses of breast cancer, Dr. Nathalie Johnson, Chief Breast Surgeon at Legacy Good Samaritan Hospital in Portland, Ore., and author on this study, expanded upon BSGI/MBI's clinical relevance: "Its application may be particularly relevant for evaluation of newly diagnosed breast cancer to rule out additional disease with a lower false positive rate." Additional researchers on the study were Esther Han, M.D. and Margie Glissmeyer in Portland, Ore.

About BSGI/MBI

As a follow-up to mammography, BSGI/MBI utilizes the Dilon 6800® Gamma Camera to help physicians more clearly differentiate benign from malignant tissue. To perform BSGI/MBI, the patient receives a pharmaceutical tracing agent that is absorbed by all the cells in the body. Due to their increased rate of metabolic activity, cancerous cells in the breast absorb a greater amount of the tracing agent than normal healthy cells and generally appear as dark spots on the BSGI/MBI image.

About Dilon Diagnostics

Dilon Diagnostics, a brand of Dilon Technologies Inc., is bringing innovative new medical imaging products to market. Dilon's cornerstone product, the Dilon 6800, is a high-resolution, small field-of-view gamma camera, optimized to perform BSGI/MBI, a molecular breast imaging procedure which images the metabolic activity of breast lesions through radiotracer uptake. Many leading medical centers around the country are now offering BSGI/MBI to their patients, such as Cornell University Medical Center, New York and The George Washington University Medical Center, Washington, D.C. For more information on Dilon Technologies please visit www.dilon.com.

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