

Preoperative Evaluation – New Cancer Diagnosis

Legacy Good Samaritan Medical Center, Portland, OR

Breast-Specific Gamma Imaging with the Dilon 6800

Clinical History

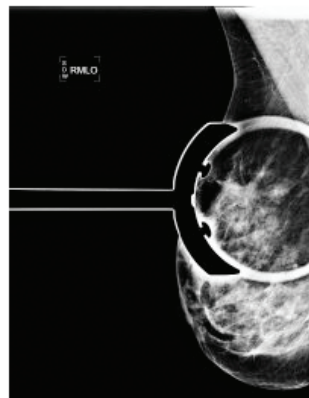
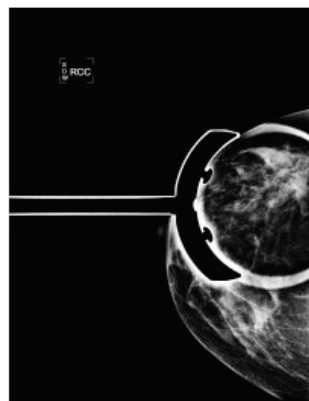
50-year-old patient in for routine screening mammogram. She has moderately dense breast tissue.

Mammogram

In the upper outer quadrant of the right breast, there has been a change in density and interval appearance of a radial scar-like spiculation. There are scattered round, smooth-walled nodules in the left breast and a few round smooth nodules in the right breast inferiorly. Comparison of prior year's mammogram shows an increase density at the site of the radial-like spiculation which is highly suspicious for a new growth in the upper outer quadrant. BIRAD-4

Magnification Views

Coned views reveal spiculation present with increased density and a poorly defined central mass.



Ultrasound

Left breast demonstrates some scattered simple cysts but no suspicious masses. On physical exam of the right breast a palpable firm mass is appreciated in the upper outer quadrant in the 9:00-10:00 region. Ultrasound of the right breast in this area demonstrates an irregular hypoechoic mass which measures 1.7cm in maximum diameter. In several places borders are poorly defined. There are some spiculation-like changes of the mass as seen similarly on mammography. Biopsy is conducted on this right breast mass. Pathology infiltrating ductal carcinoma, intermediate grade. Preoperative BSGI is recommended.

BSGI IMPACT AND PATIENT DIAGNOSIS

The left breast was normal. In the upper outer quadrant of the right breast, there is multifocal intense uptake. The largest area measures 1.6 x 1.8cm and corresponds to the known malignancy. The additional foci suggest further extent of disease. Lumpectomy pathology documents a 1.5cm ductal carcinoma with adjacent focal ductal carcinoma in-situ.

Patient case histories courtesy of Legacy Good Samaritan Medical Center, Portland, OR.

Preoperative BSGI properly characterized this malignancy as a 1.5cm ductal carcinoma with extending DCIS and aided in preoperative planning.

