

Pathology Report: AUTOSEG008^BREAST

Patient Name: AUTOSEG008^BREAST

Date of Birth: 01/08/1970

Medical Record Number: MRN10000008

Date of Surgery: 03/22/2025

Date of Report: 03/27/2025

Clinical History

Screen-detected right breast mass in an asymptomatic patient. Diagnostic imaging confirmed the presence of a suspicious lesion.

Specimen

Right breast lumpectomy with sentinel lymph node biopsy.

Gross Description

The lumpectomy specimen measures 4.8 x 3.5 x 2.5 cm. Serial sectioning reveals a firm, tan-white, stellate mass measuring 1.8 cm in greatest dimension, situated 0.7 cm from the closest margin. Additionally, two sentinel lymph nodes are received, measuring 1.0 cm and 0.8 cm.

Microscopic Description

1. **Lumpectomy:** Sections show invasive ductal carcinoma, moderately differentiated (Nottingham Grade 2) with focal areas of ductal carcinoma in situ (DCIS) comprising approximately 15% of the tumor volume. All margins are free of invasive carcinoma and DCIS.
2. **Sentinel Lymph Nodes:** Both nodes are negative for metastatic carcinoma.

Immunohistochemistry

- Estrogen Receptor (ER): Positive (90% of tumor cells, strong intensity)
- Progesterone Receptor (PR): Positive (70% of tumor cells, moderate intensity)

- HER2/neu: Negative (score 1+)
- Ki-67: 18%

Diagnosis

Right breast, lumpectomy with sentinel lymph node biopsy:

- Invasive ductal carcinoma, moderately differentiated (Nottingham Grade 2)
- Tumor size: 1.8 cm
- Margins: Negative
- Pathologic stage: pT1cN0M0

Comments

The tumor meets criteria for breast conserving therapy. Findings were discussed at the multidisciplinary tumor board, and the patient is recommended for adjuvant radiation consultation.

Pathologist: Dr. Michael Chen, MD

Electronic Signature: Michael Chen, MD

Date Signed: 03/27/2025