

Sample #

ICD-3

Carcinoma, infiltrating
lobular NOS 8520/3
Site (B) Breast NOS
C50.9
JW 8/2/13

FINAL PATHOLOGIC DIAGNOSIS

A. Right breast implant; removal:

- Breast implant (gross only)

B. Right breast; skin-sparing mastectomy:

- Invasive lobular carcinoma, SBR grade II, two foci, adjacent to prior lumpectomy site (1.9cm) and superior aspect of breast (2.2 cm)
- Lobular carcinoma in situ, classic type
- Uninvolved breast parenchyma with adenosis, usual ductal hyperplasia, columnar cell change and apocrine metaplasia

C. Right breast, anterior margin superior flap; excision:

- Breast parenchyma with post-surgical change, no tumor

D. Right breast, anterior margin inferior flap; excision:

- Breast parenchyma with post-surgical change, no tumor

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TCGA-OL-A6VQ-01A-PR

Redacted



Breast Pathologic Parameters

(combined with previous lumpectomy specimen)

1. Invasive carcinoma:

A. Microscopic measurement: Two foci (1.9cm and 2.2 cm)

B. Composite histologic (modified SBR) grade: II (all foci)

- Architecture: 3
- Nuclear grade: 2
- Mitotic rate: 1

C. Associated intraductal carcinoma in situ (LCIS):

- Within and extending away from main mass (forming 10% of tumor volume)

2. Excisional biopsy margins: Positive

- Specimen margins positive, invasive carcinoma present at posterior margin (slide B11) and <0.1 mm from anterior-superior (slides B11 and B12) margin; superior lesion, slices 5 and 6 of 15 going medial to lateral

3. Blood vessel and lymphatic invasion: Absent

4. Nipple: Unremarkable

5. Skin: Uninvolved

6. Axillary lymph nodes: Negative (0/4 sentinel lymph nodes, see

7. Special studies (see

- ER: Strong expression in 90% of invasive tumor nuclei

- PR: Weak expression in 10-20% of invasive tumor nuclei

- HER2 antigen (FISH): Non-amplified (ratio: 1.05)

- Ki67: 10%

8. pTNM (AJCC, 7th edition, 2010): pT2(m), N0(sn), MX

Clinical History:

The patient is a -year-old female with right breast cancer undergoing a right breast skin sparing mastectomy.

Specimens Received:

A: Breast implant

B: Right breast

C: Anterior margin - superior flap

D: Anterior margin - inferior flap

Gross Description:

The specimens are received in four containers each labeled with the patient's name and medical record number.

A. The first container is additionally identified as, 'right breast implant'.

Received is a spherical portion of clear synthetic plastic material filled with clear gel measuring 11.5 x 11.5 x 5 cm. The following is on the surface

The specimen is consistent with an intact breast implant and received for gross description only. Gross photographs are submitted.

B. The second container is additionally identified as, 'right breast skin

sparing mastectomy'. Received fresh and placed in formalin is a 149 g oriented skin sparing simple mastectomy. The specimen measures 14.8 cm from superior to inferior, 19.8 cm from medial to lateral, and 1.2 cm from anterior to posterior.

The anterior skin is tan and unremarkable measuring 3.4 x 3.3 cm. There is a

central 2.4 x 2.3 cm areola and soft 1.2 x 1.1 x 0.5 cm nipple. The specimen is sectioned from lateral to medial into 15 slices (1 is lateral) with slice 10 corresponding with the nipple. On the anterior aspect of the specimen is a metal clip identified in the mid-superior aspect at approximately 11:00. A 1.7 x 1.5 x 1.0 cm hemorrhagic smooth cavity lies within slices 8 and 9 with adjacent yellow tissue consistent with fat necrosis. It is in the middle aspect of the slices adjacent to the aforementioned metallic clip. The cavity abuts the posterior margin and comes to within 0.1 cm of the anterior (blue ink) margin. Lateral to the cavity in slice 7 is a palpably firm and white ill-defined lesion (#1) at the anterior (blue ink) margin and 0.2cm from the posterior margin measuring 1.4 x 0.5 x 0.5 cm. In slices 5 and 6 in the superior aspect abutting the anterior and posterior margins is a firm well-circumscribed white 1.1 x 0.9 x 0.7 cm mass (#2). Lesion #2 is 1.5 cm superior and one cm lateral to lesion #1. Lastly in slices of 6 and 7 in the inferior aspect is an ill defined firm white lesion (#3) extending over 1.0 x 0.7 x 0.5 cm, 0.3 cm from the anterior (green ink) margin. The remainder of the specimen is rubbery lobulated dense white tissue in the central slices (5-11). Remaining tissue is lobulated soft and yellow. No other discrete lesions are identified.

Block summary:

B1: Entire nipple, serially sectioned

B2-B7: Entire cavity (lateral to medial respectively)

B8-B10: Entire lesion #1 (all sections from slice 7)

B11-B13: Entire lesion #2 (medial to lateral respectively)

B14-B17: Entire lesion #3 (lateral to medial respectively)

B18-B19: Representative sections of right upper outer quadrant (slices 8 and 9 respectively)

B20-B21: Representative sections of right lower outer quadrant (slices 5 and 8 respectively)

B22-B23: Representative sections of right lower inner quadrant (slices 9 and 10 respectively)

B24-B25: Representative sections of right upper inner quadrant (slices 11 and 12 respectively)

C. The third container is additionally identified as, 'anterior margin superior flap'. Received fresh and placed in formalin is an oriented piece of soft yellow tissue. The specimen is 0.5 g and measures 1.6 x 0.7 x 0.5 cm. On one side is a long black suture. There is no designation of the suture on the specimen container or requisition form. The side with the suture is inked black. The specimen is trisected and submitted entirely in cassette C1.

D. The fourth container is additionally identified as, 'anterior margin inferior flap'. Received fresh and placed in formalin is an oriented piece of soft yellow tissue. The specimen is 1.0 g and measures 2.1 x 1.4 x 0.5 cm. On one side is a long black suture. There is no designation of the suture on the specimen container or requisition form. The side with the suture is inked black. The specimen is trisected and submitted entirely in cassettes D1-D2.

Tissue fixed for at least 6 hours in 10% NBF and no more than 72 hours

Criteria	Yes	No
Diagnosis Discrepancy		✓
Primary Tumor Site Discrepancy		✓
IP/PA Discrepancy		✓
Metastatic Malignancy History		✓
Qual/Sync/Endo as Primary		
Case is (circle) <u>QUALIFIED</u> / DISQUALIFIED		
Reviewer Initials: <u>KMS</u> Date Reviewed: <u>7/11/13</u>		