

Carcinoma, infiltrating duct, NOS 8500/3

TSS

Path Site Code: breast, upper outer quadrant C50.4
CQCF Site: breast, NOS C50.9

12/29/10

hw

TSS

UUID: 431AE1CB-9605-45E3-B6C3-5253B24655D6
TCGA-E2-A1B1-01A-PR

Redacted

SPECIMENS:

- A. SENTINEL LYMPH NODE 1
- B. SENTINEL LYMPH NODE 2
- C. SENTINEL LYMPH NODE 3
- D. SENTINEL LYMPH NODE 4
- E. SENTINEL LYMPH NODE 5
- F. SENTINEL LYMPH NODE 6
- G. SENTINEL LYMPH NODE 7
- H. WLE LEFT BREAST
- I. ADDITIONAL MARGIN LEFT BREAST

DIAGNOSIS:

- SENTINEL LYMPH NODE, #1, EXCISION (PART A)
 - FRAGMENT OF FIBROADIPOSE TISSUE, NEGATIVE FOR MALIGNANCY, NEGATIVE FOR LYMPHOID TISSUE.
- SENTINEL LYMPH NODE #2, EXCISION (PART B)
 - METASTATIC DUCTAL CARCINOMA (4 MM IN DIAMETER, FOCAL EXTRACAPSULAR EXTENSION). SEE COMMENT.
- SENTINEL LYMPH NODES, #3-#7, EXCISION (PARTS C-G)
 - FIVE LYMPH NODES, NEGATIVE FOR MALIGNANCY (0/5).
- LEFT BREAST, WIDE LOCAL EXCISION (PART H)
 - WELL DIFFERENTIATED INFILTRATING DUCTAL CARCINOMA, WITH A MUCINOUS COMPONENT (3.7 CM IN GREATEST DIAMETER, SBR GRADE I),
 - SEE COMMENT.
 - SURGICAL MARGINS OF EXCISION, NEGATIVE FOR MALIGNANCY.
- LEFT BREAST, ADDITIONAL MARGIN, EXCISION (PART I)
 - FIBROGLANDULAR BREAST TISSUE, NEGATIVE FOR MALIGNANCY.

SPECIMEN(S):

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- E. SENTINEL LYMPH NODE 5
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CLINICAL HISTORY:

77 old white female abnormal mammogram left upper outer breast. Cone Biopsy shows well differentiated infiltrating ductal carcinoma with mucinous features. ER+, Pr+ HER2+ by FISH. Right breast MRI showed mass at left upper outer quadrant 3x3x0.8cm. Second enhancing mass at posterior aspect 7mm measurement. Questionable satellite lesion.

INTRAOPERATIVE CONSULTATION DIAGNOSIS:

TPA, TPB: Lymph nodes, left axillary sentinel 1 & 2, excision: No malignancy identified, specimen A is predominantly fat.
TPC, TPD: Lymph nodes, left axillary sentinel 3 & 4, excision: No malignancy identified.
TPE, TPF, TPG: Lymph nodes, left axillary sentinel 5, 6 & 7, excision: No malignancy identified.
By Dr. called in at _____ and _____

GROSS DESCRIPTION:

- A. SENTINEL LYMPH NODE 1:
 - Received fresh for touch-prep and labeled, Sentinel Lymph Node #1, Left* is a piece of adipose tissue measuring 2.4x2x.4cm. It is bisected and a touch-prep is performed. Specimen is submitted in toto in block A1.
- B. SENTINEL LYMPH NODE 2:

TSS:

- Received in formalin and labeled "Sentinel Lymph Node #2, Left Axilla" is a lymph node with fat measuring 2x3.5x1.1cm. Bisected. A touch-prep is performed and lymph node is submitted in toto in block B1.

C. SENTINEL LYMPH NODE 3:

- Received in formalin and labeled "Sentinel Lymph Node #3, Left Axilla" is a tan lymph node measuring 1.3x1.2x0.6cm. Bisected and a touch-prep is performed. Submitted in toto in block C1

D. SENTINEL LYMPH NODE 4:

- Received fresh for touch-prep and labeled, "Sentinel Lymph Node #4, Left Axilla" is a piece of yellow-tan fat and a tan lymph node measuring 1.5x1.2x0.3cm. It is bisected and a touch-prep is performed. Specimen is submitted in toto in block D1.

E. SENTINEL LYMPH NODE 5:

- Received fresh for touch-prep and labeled, "Sentinel Lymph Node #5, Left Axilla" is a piece of fat and a tan lymph node measuring 2.3x1.5x0.7cm. The specimen is serially sectioned and touch-prep is performed. Lymph node is submitted in toto in block E1-E2.

F. SENTINEL LYMPH NODE 6:

- Received fresh for touch-prep and labeled, "Sentinel Lymph Node #6, Left Axilla" is a piece of yellow-tan adipose tissue containing a lymph node measuring 1.5x0.7x0.5cm. The lymph node is bisected and a touch-prep is performed. The lymph node is submitted in toto in block F1.

G. SENTINEL LYMPH NODE 7:

- Received fresh for touch-prep and labeled, "Sentinel Lymph Node #7, Left Axilla" is a piece of yellow-tan fat containing a lymph node measuring 1.0x9.0x4cm. It is bisected and a touch-prep is performed. Specimen is submitted in toto in block G1.

H. WLE LEFT BREAST

- Received fresh and labeled, "Wide Local Excision, Left Breast with Needle Localization" is an oval shaped piece of yellow-tan fibrofatty soft tissue weighing 161 grams and measuring 9.2x8.1x3.2cm. The specimen is received with an accompanying radiogram which shows a needle coursing from the medial aspect to the lateral aspect. The needle is a stellate area of increased density and a surgical clip is present. The specimen has been oriented in surgery with short designating superior long lateral and looped anterior. Specimen is inked as follows: inferior-orange, superior-red, lateral-yellow, anterior-blue, medial-green and posterior black. Specimen is serially sectioned from superior to inferior and in the inferior aspect of the specimen is an irregularly shaped firm pink-tan mass measuring 3.7x3.5x1.5cm. Areas of hemorrhage are seen. The mass is within 1.1cm from the lateral margin, 1.2cm from the anterior margin, 2.2cm from the medial margin, 1.7cm from the deep margin, 1.7cm from the inferior margin and approximately 4.4cm from the superior margin. Superior and slightly posterior from this mass is a firm tan nodule measuring 0.7cm which is located 0.8cm from the larger mass. It is possible that it is a continuous mass located 1.2cm from the lateral margin, 3.7cm from the anterior margin, 1.3cm from the posterior margin and 4.8cm from the medial margin. This mass corresponds with the increased area of density and second needle localization which is present on the radiogram which is shown superior to the larger mass. Representative sections are submitted as follows: H1-H6 larger mass including adjacent margins; H7-H8 breast tissue between larger mass and smaller mass; H9 smaller mass; H10-H13 additional fibrous breast tissue; H14 superior margin; H15 inferior margin.

I. ADDITIONAL MARGIN LEFT BREAST:

- Received in formalin and labeled, "Additional Margin Left Breast. This Marks New Inferior Margin" is an irregularly shaped piece of yellow-tan fibrofatty breast tissue measuring 4.7x4.7x0.8cm. There is a stitch present marking the new inferior margin. The margin is inked blue and serially sectioned. On sectioning little fibrous tissue is seen and no masses or lesions are found. Specimen is submitted in toto in blocks I1-I10.

COMMENT:

Review of the original touch prep, for sentinel lymph node #2, shows a single minute focus of metastatic tumor cells. The metastatic deposit in sentinel lymph node #2 measures 4mm in greatest diameter, and shows approximately 1mm of extracapsular extension focally. Gross examination of the left breast wide local excision shows an irregularly shaped 3.7x3.5x1.5cm lesion, which is grossly away from the

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margins of excision. On gross examination, there is a separate firm nodule which measures 0.7cm in diameter which is near the larger tumor mass. Examination of microscopic sections, in the intervening breast between these two nodules, however shows continuity of the 2nd smaller nodule with the larger mass, consistent with an irregular, dumbbell shaped single lesion. This patient had ER, PR and HER2 IHC performed on her prior needle core biopsy (). These results were ER positive, PR positive and HER2 was found to be amplified by FISH.

Specimens Involved

Specimens: H: WLE LEFT BREAST

BREAST CANCER TEMPLATE

Specimen Type: Excision

Needle Localization: Yes

Laterality: Left

Invasive tumor: Present

Multifocality: No

Specimen size: Size of Invasive focus 3.7cm

Additional dimensions: 3.5cm x 1.5cm

Tumor Site: Upper outer quadrant

Margins: Negative

Distance from closest margin: 0.4cm

Margin: anterior

Tubular score: 1 (>75% tubule)

Mitotic score (Olympus 40x): 1 (0-6/10 hpf)

Modified Scarff Bloom Richardson Grade: I (3-5 points)

Necrosis: Absent

Vascular/Lymphatic Invasion: None identified

Lobular neoplasia: None

Nuclear score: 2

Lymph nodes: Sentinel lymph node only

Lymph node status: Positive 1 / 6 Extranodal extension

DCIS PRESENT?

No

Pathological staging (pTN): pT 2 N 1

Microscopic/Diagnostic Dictation: Pathologist,
Microscopic/Diagnostic Dictation: PATHOLOGIST,
Final Review: PATHOLOGIST
Final Review: PATHOLOGIST,
Final:PATHOLOGIST,

| Criteria | Yes | No |
|--------------------------------|--------------------|-------------------------------------|
| Diagnosis Discrepancy | | <input checked="" type="checkbox"/> |
| Primary Tumor Site Discrepancy | | <input checked="" type="checkbox"/> |
| HIPAA Discrepancy | | <input checked="" type="checkbox"/> |
| Prior Malignancy History | | <input checked="" type="checkbox"/> |
| Dual/Synchronous Primary Noted | | <input checked="" type="checkbox"/> |
| Case is (circle): | QUALIFIED | DISQUALIFIED |
| Reviewer Initials | D to Reviewed: / / | |