

Clinical Diagnosis & History:
Patient with left breast cancer IFDC on core left MRM and right prophylactic TM and SLNB.

- 1: SP: Left breast & axillary contents levels 1,2 with tags attached
- 2: SP: Right breast
- 3: SP: Level 3 axillary contents
- 4: SP: Sentinel node #1, level one right axilla
- 5: SP: Sentinel node #2, level one right axilla

- 1) BREAST, LEFT AND AXILLARY CONTENTS, LEVELS I AND II; EXCISION:
 - INVASIVE DUCTAL CARCINOMA, WITH MEDULLARY FEATURES, HISTOLOGIC GRADE II/III (MODERATE TUBULE FORMATION), NUCLEAR GRADE II/III (MARKED VARIATION IN SIZE AND SHAPE), MEASURING 2.3 CM IN LARGEST DIMENSION MICROSCOPICALLY.
 - DUCTAL CARCINOMA IN SITU (DCIS) IS ALSO IDENTIFIED, SOLID TYPE WITH HIGH NUCLEAR GRADE AND EXTENSIVE NECROSIS.
 - THE DCIS CONSTITUTES \leq 25% OF THE TOTAL TUMOR MASS, AND IS PRESENT ADMIXED WITH THE INVASIVE COMPONENT
 - THE INVASIVE CARCINOMA IS LOCATED IN THE LOWER OUTER QUADRANT. THE DCIS IS LOCATED IN THE LOWER OUTER QUADRANT.
- NO INVOLVEMENT OF THE NIPPLE BY EITHER IN SITU OR INVASIVE CARCINOMA IS IDENTIFIED.
- NO CALCIFICATIONS ARE IDENTIFIED IN EITHER THE INVASIVE OR IN SITU CARCINOMA.
- NO VASCULAR INVASION IS NOTED.
- NO INVOLVEMENT OF THE SURGICAL MARGINS BY EITHER INVASIVE OR IN SITU CARCINOMA IS IDENTIFIED.
- NO SKIN INVOLVEMENT BY CARCINOMA IS IDENTIFIED.
- THE NON-NEOPLASTIC BREAST TISSUE IS UNREMARKABLE.
- THE LYMPH NODE STATUS IS AS FOLLOWS (EXPRESSED AS THE NUMBER OF POSITIVE LYMPH NODES IN RELATION TO THE TOTAL NUMBER OF LYMPH NODES EXAMINED): LEVEL I: 2/13; LEVEL II: 0/4.
- THERE IS EXTRANODAL EXTENSION OF CARCINOMA.
- RESULTS OF SPECIAL STAINS (ER, PR, HER2-NEU) WILL BE REPORTED AS AN ADDENDUM.

** Continued on next page **

100-0-3
carcinoma, infiltrating duct, nos 8504/3
Site: breast, nos 850.9 lw 10/22/41

UUUD: DD973A0E-3C33-4ED7-BF2C-7E5E3C55032B
TCGA-AO-A129-01A-PR

| Street | No. |
|---------------------------|-----|
| Chicago Ave. N. W. corner | 12 |
| Chicago Ave. N. W. corner | 14 |
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| Chicago Ave. N. W. corner | 100 |

- 2) BREAST, RIGHT; EXCISION:
- BENIGN BREAST PARENCHYMA WITH SECRETORY CHANGE.
- 3) LYMPH NODES, LEFT AXILLA, LEVEL III; EXCISION:
- TWO BENIGN LYMPH NODES (0/2).
- 4) LYMPH NODES, SENTINEL #1, LEVEL I, RIGHT AXILLA; EXCISION:
- TWO BENIGN LYMPH NODES (0/2). DEEPER LEVEL RECUTS AND SPECIAL STAINS HAVE BEEN ORDERED. THE RESULTS WILL BE REPORTED IN AN ADDENDUM.
- 5) LYMPH NODE, SENTINEL #2, LEVEL I, RIGHT AXILLA; EXCISION:
- BENIGN BREAST TISSUE. NO LYMPH NODE IDENTIFIED.

I ATTEST THAT THE ABOVE DIAGNOSIS IS BASED UPON MY PERSONAL EXAMINATION OF THE SLIDES (AND/OR OTHER MATERIAL), AND THAT I HAVE REVIEWED AND APPROVED THIS REPORT.

*** Report Electronically Signed Out ***

Special Studies:

| Result | Special Stain | Comment |
|--------|---------------|---------|
| | HER2-C | |
| | ER-C | |
| | PR-C | |
| | NEG CONT | |
| | IMM RECUT | |
| | NEG-HER2 | |
| | AE1:AE3 | |
| | CAM 5.2 | |
| | AE1:AE3 | |
| | CAM 5.2 | |
| | NEG CONT | |
| | IMM RECUT | |
| | NEG CONT | |
| | IMM RECUT | |

Gross Description:

1) The specimen is received fresh, labeled, "Left breast & axillary contents levels 1,2 with tags attached". It is a product of left modified mastectomy, consisting of an ellipse of tan skin, breast tissue and axillary tail designated as levels one and two. The skin measures 15.0 x 4.0 cm. The breast tissue measures 23.0 x 23.0 x 6.5 cm. The axillary tail site measures 14.0 x 6.5 x 2.0 cm. The nipple is everted. No visible scars are present on the skin surface. A scanty amount of skeletal muscle tissue is present at the deep margin which is inked. The breast tissue was sectioned to reveal an ill-defined pink-gray focally hemorrhagic rubbery tumor completely surrounded by thickened fibrous tissue situated in the lower outer quadrant, 3.5 cm from the deep surgical margin. The fibrous tissue surrounding the tumor abuts the deep surgical margin. The rest of the tissue is predominantly fibrous. Serial sectioning of the axillary tail reveals

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multiple lymph nodes, ranging from 0.3 up to 1.5 cm in greatest dimension.
Representative sections were submitted, portion of the tumor was given to
TPS.

Summary of Sections:

N nipple
T tumor
DM deep margin closest to the tumor
UOQ upper outer quadrant
LOQ lower outer quadrant
LIQ lower inner quadrant
LN1 lymph nodes level one
LN2 lymph nodes level two

2) The specimen is received fresh, labeled, "Right breast, (stitch marks axillary tail)". It is a product of right modified mastectomy consisting of an ellipse of tan skin with breast tissue. The skin measures 15.5 x 5.0 cm. The breast tissue measures 16.0 x 16.0 x 6.0 cm. The nipple is everted. Grossly no visible scars are present on the skin surface. There is a scanty amount of skeletal muscle tissue present at the deep margin which is inked. The breast tissue was sectioned to reveal fibrofatty tissue. The fibrous tissue counts to approximately 55% of the entire breast tissue. Grossly no evert lesions were identified. No lymph nodes were present at the axillary tail site. Representative sections were submitted.

Summary of Sections:

N nipple
OUQ upper outer quadrant
LOW lower outer quadrant
UIQ upper inner quadrant
LIQ lower inner quadrant
DM deep margin
AXT axillary tail site

3) The specimen is received in formalin, labeled, "Level 3 axillary contents". It consists of three piece of fibroadipose tissue measuring in aggregate 1.5 x 1.0 x 0.6 cm. Entirely submitted.

Summary of Sections:

U undesignated

4) The specimen is received in formalin, labeled, "Sentinel node #1, level one, right axilla". It consists of a single piece of adipose tissue measuring 2.5 x 2.0 x 0.5 cm. Entirely submitted.

Summary of Sections:

U undesignated

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5) The specimen is received in formalin, labeled, "Sentinel node #2, level one right axilla". It consists of a single piece of fibroadipose tissue with embedded lymph node, measuring 0.8 cm in its greatest dimension. Entirely submitted.

Summary of Sections:
LN lymph node

Summary of Sections:

Part 1: SP: Left breast & axillary contents levels 1,2 with tags attached

| Block | Sect. Site | PCs |
|-------|------------|-----|
| 5 | ALN | 13 |
| 2 | BLN | 7 |
| 1 | DM | 3 |
| 2 | LIQ | 2 |
| 2 | LOQ | 2 |
| 2 | N | 2 |
| 4 | T | 4 |
| 2 | UIQ | 2 |
| 2 | UOQ | 2 |

Part 2: SP: Right breast

| Block | Sect. Site | PCs |
|-------|------------|-----|
| 1 | AXT | 2 |
| 1 | DM | 3 |
| 4 | LIQ | 4 |
| 4 | LOQ | 4 |
| 2 | N | 2 |
| 4 | UIQ | 4 |
| 4 | UOQ | 4 |

Part 3: SP: Level 3 axillary contents

| Block | Sect. Site | PCs |
|-------|------------|-----|
| 1 | U | 3 |

Part 4: SP: Sentinel node #1, level one right axilla

| Block | Sect. Site | PCs |
|-------|------------|-----|
| 2 | U | 2 |

Part 5: SP: Sentinel node #2, level one right axilla

| Block | Sect. Site | PCs |
|-------|------------|-----|
| 1 | LN | 1 |

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Procedures/Addenda:

Addendum

Date Ordered:

Date Complete

Date Reported:

Status: Signed Out

By:

Addendum Diagnosis

ADDENDUM

SITE: LEFT BREAST

- ER-ICA: NEGATIVE
 - PR-ICA: NEGATIVE
 - HER2/NEU (HERCEPT): NEGATIVE (STAINING INTENSITY OF 0).
- CONTROLS ARE SATISFACTORY.

Addendum

Date Ordered:

Date Complete:

Date Reported:

Status: Signed Out

By:

Addendum Diagnosis

ADDENDUM

SITE: SENTINEL LYMPH NODE, RIGHT AXILLA
PART #4.

ADDITIONAL H&E STAINED SECTIONS AND IMMUNOHISTOCHEMICAL STAINS FOR
CYTOKERATINS (AE1:AE3 AND CAM 5.2) SHOW NO EVIDENCE OF METASTATIC TUMOR.

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** End of Report **