

Clinical Diagnosis & History:

y/o female with right breast core biopsy positive for invasive carcinoma and left breast with atypical ductal hyperplasia. For bilateral mastectomies, right sentinel node biopsy; right breast carcinoma and left atypia.

Specimens Submitted:

- 1: SP: Sentinel node #1 level 1 right axilla (fs)
- 2: SP: Sentinel node #2 level 2 right axilla (fs)
- 3: SP: Non sentinel node, right axilla
- 4: SP: Non sentinel node, right axilla, level 2
- 5: SP: Right breast
- 6: SP: Left breast

DIAGNOSIS:

- 1) LYMPH NODE, SENTINEL #1 LEVEL I RIGHT AXILLA; BIOPSY:
 - ONE BENIGN LYMPH NODE (0/1).
 - ADDITIONAL H/E STAINED SECTIONS AND IMMUNOHISTOCHEMICAL STAINS FOR CYTOKERATINS (AE1:AE3)
 - SHOW NO EVIDENCE OF METASTATIC TUMOR.
- 2) LYMPH NODE, SENTINEL #2 LEVEL II RIGHT AXILLA; BIOPSY:
 - ONE BENIGN LYMPH NODE (0/1).
 - ADDITIONAL H/E STAINED SECTIONS AND IMMUNOHISTOCHEMICAL STAINS FOR CYTOKERATINS (AE1:AE3)
 - SHOW NO EVIDENCE OF METASTATIC TUMOR.
- 3) LYMPH NODE, NON-SENTINEL RIGHT AXILLA; BIOPSY:
 - ONE BENIGN LYMPH NODE (0/1).
- 4) LYMPH NODE, NON-SENTINEL LEVEL II RIGHT AXILLA; BIOPSY:
 - ONE BENIGN LYMPH NODE (0/1).
- 5) BREAST, RIGHT; TOTAL MASTECTOMY:
 - INVASIVE POORLY DIFFERENTIATED DUCTAL CARCINOMA, NOS TYPE, HISTOLOGIC GRADE III/III (SLIGHT OR NO TUBULE FORMATION), NUCLEAR GRADE III/III (MARKED VARIATION IN SIZE AND SHAPE), WITH EXTENSIVE NECROSIS, MEASURING 2.4 CM IN LARGEST DIMENSION MICROSCOPICALLY.
 - LOBULAR CARCINOMA IN SITU (LCIS) IS ALSO IDENTIFIED, CLASSICAL TYPE (TYPE

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TCGA-AO-A1KR-01A-PR

Redacted



1CD-0-3

Carcinoma, infiltrating ductal, NOS 8500/3

Site: breast, NOS C50.9

2/16/11
ju

| Criteria | Yes | No |
|--------------------------------|-----------|--------------|
| Diagnosis Discrepancy | | |
| Primary Tumor Site Discrepancy | | |
| HPAA Discrepancy | | |
| Prior Malignancy History | | |
| Dual/Synchronous Primary Noted | | |
| Case is (circle): | QUALIFIED | DISQUALIFIED |
| Reviewer Initials | ju | |
| Date Reviewed | 2/16/11 | |

- A).
- THE INVASIVE CARCINOMA IS LOCATED IN THE UPPER INNER QUADRANT.
 - NO INVOLVEMENT OF THE NIPPLE BY EITHER IN SITU OR INVASIVE CARCINOMA IS IDENTIFIED.
 - NO VASCULAR INVASION IS NOTED.
 - NO INVOLVEMENT OF THE SURGICAL MARGINS BY INVASIVE CARCINOMA IS IDENTIFIED.
 - NO SKIN INVOLVEMENT BY CARCINOMA IS IDENTIFIED.
 - THE NON-NEOPLASTIC BREAST TISSUE SHOWS BIOPSY SITE CHANGES, FIBROCYSTIC AND FIBROADENOMATOID CHANGES. MICROCALCIFICATIONS FOCALLY IN BENIGN DUCTS. FIBROADENOMA WITH MYXOID STROMA MEASURING 0.8 CM.
 - ER: 0% NUCLEAR STAINING.
 - PR: 0% NUCLEAR STAINING.
 - HER2/NEU(HERCEPTEST): NEGATIVE (STAINING INTENSITY OF 1+).

- 6) BREAST, LEFT; TOTAL MASTECTOMY:
- DUCTAL HYPERPLASIA USUAL TYPE WITHOUT ATYPIA.
 - COLUMNAR CELL CHANGES, ADENOSIS AND STROMAL FIBROSIS.
 - MICROCALCIFICATIONS IN BENIGN DUCTS.
 - BIOPSY SITE CHANGES.
 - UNREMARKABLE NIPPLE AND SKIN.

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 |
|--------|---------------|---------|
| | AE1:AE3 | |
| | NEG CONT | |
| | IMM RECUT | |
| | AE1:AE3 | |
| | NEG CONT | |
| | IMM RECUT | |
| | ER-C | |
| | PR-C | |
| | HER2-C | |
| | NEG CONT | |
| | IMM RECUT | |
| | NEG-HER2 | |

Gross Description:

- 1). The specimen is received fresh for frozen section consultation, labeled

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"Sentinel node number one, level 1, right axilla" and consists of one lymph node measuring 1.0 cm, bisected and entirely submitted for frozen section.

Summary of sections:

FSC -- frozen section control

2). The specimen is received fresh for frozen section consultation, labeled "Sentinel node number two, level 2, right axilla" and consists of one lymph node measuring 1.4 cm, bisected and entirely submitted for frozen section.

Summary of sections:

FSC -- frozen section control

3). The specimen is received in formalin labeled, "Non-sentinel node, right axilla", and consists of one lymph node measuring 1.3 cm, which is entirely submitted.

Summary of sections:

BLN - bisected lymph node

4). The specimen is received in formalin labeled, "Non-sentinel node, level 2, right axilla", and consists of one lymph node measuring 1.0 cm, which is entirely submitted.

Summary of sections:

BLN - bisected lymph node

5). The specimen is received fresh labeled, "right breast, stitch marks the axillary tail" and consists of a breast measuring 24 x 23 x 3.5 cm with overlying skin ellipse measuring 16 x 8.5 cm. Situated superiorly on the skin surface is an everted nipple measuring 1.2 x 0.9. A suture demarcates the axillary aspect. The posterior surface of the breast is inked black, anterior blue and the specimen is serially sectioned to reveal a large stellate mass measuring 2.4 x 2.2 x 1.8 cm, and located in the upper inner quadrant, 2 cm from deep margin, 1.0 cm from anterior skin. Sectioning of the axillary aspect reveals no grossly identifiable lymph nodes. 25% of the tumor is given to tissue bank. Representative sections are submitted.

Summary of sections:

N - nipple

NB - nipple base

S - skin

D - deep margin

AA - axillary aspect

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UIQ - upper inner quadrant
 LIQ - lower inner quadrant
 UOQ - upper outer quadrant
 LOQ - lower outer quadrant
 T - tumor

6). The specimen is received fresh labeled, "left breast, stitch marks the axillary tail" and consists of a breast measuring 24 x 19 x 2.8 cm with overlying skin ellipse measuring 16 x 3.9 cm. Situated centrally on the skin surface is an everted nipple measuring 1.5 x 1.1 cm. A suture demarcates the axillary aspect. The posterior surface of the breast is inked black, anterior blue and the specimen is serially sectioned to reveal a recent biopsy site, located in the lower inner quadrant. Sectioning of the axillary aspect reveals no grossly identifiable lymph nodes. 25% of breast consists of fibrous tissue. Samples are given to tissue bank. Representative sections are submitted.

Summary of sections:

N - nipple
 NB - nipple base
 S - skin
 D - deep margin
 AA - axillary aspect
 UIQ - upper inner quadrant
 LIQ - lower inner quadrant
 UOQ - upper outer quadrant
 LOQ - lower outer quadrant
 BxSite - recent biopsy site

Summary of Sections:

Part 1: SP: Sentinel node #1 level 1 right axilla (fs)

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

Part 2: SP: Sentinel node #2 level 2 right axilla (fs)

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

Part 3: SP: Non sentinel node, right axilla

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

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Part 4: SP: Non sentinel node, right axilla, level 2

| Block | Sect. | Site | PCs |
|-------|-------|------|-----|
| 1 | | BLN | 2 |

Part 5: SP: Right breast

| Block | Sect. | Site | PCs |
|-------|-------|------|-----|
| 1 | | AA | 1 |
| 1 | | D | 1 |
| 1 | | LIQ | 4 |
| 1 | | LOQ | 4 |
| 1 | | N | 2 |
| 1 | | NB | 1 |
| 1 | | S | 1 |
| 4 | | T | 4 |
| 1 | | UIQ | 4 |
| 1 | | UOQ | 4 |

Part 6: SP: Left breast

| Block | Sect. | Site | PCs |
|-------|-------|--------|-----|
| 1 | | AA | 1 |
| 4 | | BxSite | 4 |
| 1 | | D | 1 |
| 2 | | LIQ | 8 |
| 2 | | LOQ | 8 |
| 1 | | N | 2 |
| 1 | | NB | 1 |
| 1 | | S | 1 |
| 2 | | UIQ | 8 |
| 2 | | UOQ | 8 |

Intraoperative Consultation:

Note: The diagnoses given in this section pertain only to the tissue sample examined at the time of the intraoperative consultation.

- 1) FROZEN SECTION DIAGNOSIS: BENIGN (0/1).
PERMANENT DIAGNOSIS: SAME
- 2) FROZEN SECTION DIAGNOSIS: BENIGN (0/1)
PERMANENT DIAGNOSIS: SAME

** End of Report **