

PATIENT HISTORY:

CHIEF COMPLAINT/ PRE-OP/ POST-OP DIAGNOSIS: Left breast cancer 1.3 cm, positive nodes. Right invasive ductal carcinoma 9 o'clock.

LMP DATE: Not provided.

PROCEDURE: Bilateral segmental mastectomies, right sentinel lymph node biopsy, left axillary lymph node dissection.

SPECIFIC CLINICAL QUESTION: Not provided.

OUTSIDE TISSUE DIAGNOSIS: No.

PRIOR MALIGNANCY: No.

CHEMORADIATION THERAPY: No.

OTHER DISEASES: No.

Carcinoma, Infiltrating duct, NOS 8500/3
Site Code: breast, NOS C50.9

UUID: DF536409-601F-489B-9F8A-A2B372BF9999
TCGA-BH-A18H-01A-PR

Redacted



FINAL DIAGNOSIS:

PART 1: BREAST, RIGHT AT 9 O'CLOCK, SEGMENTAL MASTECTOMY -

- A. INVASIVE DUCTAL CARCINOMA, NO SPECIAL TYPE (See comment).
- B. NOTTINGHAM GRADE 2 (TUBULE FORMATION: 3, NUCLEAR PLEOMORPHISM: 2, MITOTIC ACTIVITY: 1; TOTAL SCORE: 6/9).
- C. THE INVASIVE TUMOR MEASURES 0.8 CM IN LARGEST DIMENSION.
- D. DUCTAL CARCINOMA IN SITU (DCIS), NUCLEAR GRADE 2, CRIBRIFORM, MICROPAPILLARY AND FOCAL PAPILLARY TYPE WITH CALCIFICATIONS.
- E. LOBULAR INVOLVEMENT BY DCIS IS PRESENT.
- F. THE DCIS CONSTITUTES 60% OF THE TOTAL TUMOR VOLUME AND IS PRESENT ADMIXED AND ADJACENT TO THE INVASIVE COMPONENT.
- G. NO LYMPHOVASCULAR SPACE INVASION IS NOTED.
- H. RESECTION MARGINS ARE NEGATIVE FOR TUMOR.
- I. BOTH INVASIVE CARCINOMA AND IN SITU CARCINOMA ARE MORE THAN 0.5 CM FROM ALL MARGINS.
- J. FOCAL ATYPICAL DUCTAL HYPERPLASIA.
- K. PREVIOUS BIOPSY SITE CHANGES.
- L. THE NON-NEOPLASTIC BREAST SHOWS FIBROCYSTIC CHANGES.
- M. THE INVASIVE TUMOR CELLS ARE POSITIVE FOR ESTROGEN (H-score 230), POSITIVE FOR PROGESTERONE RECEPTORS (H-score 180), AND NEGATIVE FOR HER-2/NEU (IHC 2+, FISH not amplified) AS PER THE PREVIOUS PATHOLOGY REPORT (

PART 2: RIGHT AXILLARY SENTINEL LYMPH NODE #1, BIOPSY -
ONE LYMPH NODE, NEGATIVE FOR METASTATIC TUMOR (0/1).

PART 3: BREAST, LEFT AT 12 O'CLOCK, SEGMENTAL MASTECTOMY -

- A. INVASIVE DUCTAL CARCINOMA, NO SPECIAL TYPE.
- B. NOTTINGHAM GRADE 3 (TUBULE FORMATION: 3, NUCLEAR PLEOMORPHISM: 3, MITOTIC ACTIVITY: 2; TOTAL SCORE: 8/9).
- C. THE INVASIVE TUMOR MEASURES 1.3 CM IN LARGEST DIMENSION.
- D. ADDITIONAL SATELLITE NODULE OF INVASIVE CARCINOMA MEASURING 0.2 CM IS IDENTIFIED.
- E. THE SATELLITE NODULE IS 0.5 CM FROM THE DOMINANT TUMOR NODULE.
- F. DUCTAL CARCINOMA IN SITU (DCIS), NUCLEAR GRADE 3, SOLID TYPE.
- G. LOBULAR INVOLVEMENT BY DCIS IS PRESENT.
- H. THE DCIS CONSTITUTES 15% OF THE TOTAL TUMOR VOLUME AND IS PRESENT ADJACENT TO THE INVASIVE COMPONENT.
- I. FOCAL LYMPHOVASCULAR SPACE INVASION IS IDENTIFIED.
- J. RESECTION MARGINS ARE NEGATIVE FOR CARCINOMA.
- K. INVASIVE CARCINOMA IS 0.4 CM FROM THE NEAREST (POSTERIOR) MARGIN.
- L. DUCTAL CARCINOMA IN SITU IS MORE THAN 0.5 CM FROM ALL MARGINS.
- M. SKIN IS NEGATIVE FOR TUMOR.
- N. PREVIOUS BIOPSY SITE CHANGES.
- O. THE NON-NEOPLASTIC BREAST SHOWS FIBROCYSTIC CHANGES.
- P. THE INVASIVE TUMOR CELLS ARE POSITIVE FOR ESTROGEN RECEPTOR (H-score 300), POSITIVE FOR PROGESTERONE RECEPTOR (H-score 235), AND NEGATIVE FOR HER-2/NEU, AS PER PREVIOUS PATHOLOGY REPORT

PART 4: LEFT AXILLARY CONTENTS, EXCISION -

- A. METASTATIC CARCINOMA INVOLVES TWO OF TWENTY-FOUR LYMPH NODES (2/24).
- B. THE LARGEST METASTATIC FOCUS MEASURES 4.0 CM.
- C. NO EXTRACAPSULAR EXTENSION IDENTIFIED.

COMMENT:

Part 1: The gross examination demonstrated an ill-defined firm nodule with surrounding fibrous tissue measuring 2.0 x 1.1 x 0.7 cm. This area was entirely submitted for histologic evaluation and shows invasive carcinoma in only two sections of 0.4 cm thickness and therefore, the invasive tumor size is estimated to be 0.8 cm in largest dimension. The majority of this gross lesion is composed of ductal carcinoma in situ (DCIS).

Part 3: The invasive tumor demonstrates scattered cells with intra-cytoplasmic lumina or signet ring cell morphology.

Criteria	Yes	No
Diagnostic Discrepancy		
Primary Tumor Site Discrepancy		
HPM Discrepancy		
Prior Malignancy History		
Dual Sync: n, nout Primary Node		
Case is (circle):		
Reviewer Initials		
Date Reviewed		

Bioremed 12/14/10

CASE SYNOPSIS:**SYNOPTIC - PRIMARY INVASIVE CARCINOMA OF BREAST**

LATERALITY: Right
PROCEDURE: Segmental
LOCATION: Clock position: 9.00
SIZE OF TUMOR: Maximum dimension invasive component: 8 mm
MULTICENTRICITY/MULTIFOCALITY OF INVASIVE FOCI: No
TUMOR TYPE (invasive component): Ductal adenocarcinoma, NOS
NOTTINGHAM SCORE: Nuclear grade: 2
Tubule formation: 3
Mitotic activity score: 1
Total Nottingham score: 6
Nottingham grade (1, 2, 3): 2
ANGIOLYMPHATIC INVASION: No
DERMAL LYMPHATIC INVASION: Not applicable
CALCIFICATION: Yes, benign zones
TUMOR TYPE, IN SITU: Cribriform
Micropapillary
SURGICAL MARGINS INVOLVED BY INVASIVE COMPONENT: No
Distance of invasive tumor to closest margin: 8 mm
SURG MARGINS INVOLVED BY IN SITU COMPONENT: No
Distance of in situ disease to closest margin: 6 mm
LYMPH NODES POSITIVE: 0
LYMPH NODES EXAMINED: 1
METHOD(S) OF LYMPH NODE EXAMINATION: H/E stain
SENTINEL NODE METASTASIS: No
NON-NEOPLASTIC BREAST TISSUE: ADH, FCD
T STAGE, PATHOLOGIC: pT1b
N STAGE MODIFIER: (sn)
N STAGE, PATHOLOGIC: pN0
M STAGE: Not applicable
ESTROGEN RECEPTORS: positive, H-score: 230
PROGESTERONE RECEPTORS: positive, H-score: 180
HER2/NEU: 2+
HER2/NEU (FISH): Not amplified

SYNOPTIC - PRIMARY INVASIVE CARCINOMA OF BREAST

LATERALITY: Left
PROCEDURE: Segmental
LOCATION: Clock position: 12.00
SIZE OF TUMOR: Maximum dimension invasive component: 13 mm
MULTICENTRICITY/MULTIFOCALITY OF INVASIVE FOCI: Yes
TUMOR AGGREGATE SIZE: Sum of the sizes of multiple invasive tumors: 15 mm
TUMOR TYPE (invasive component): Ductal adenocarcinoma, NOS
NOTTINGHAM SCORE: Nuclear grade: 3
Tubule formation: 3
Mitotic activity score: 2
Total Nottingham score: 8
Nottingham grade (1, 2, 3): 3
ANGIOLYMPHATIC INVASION: Yes
DERMAL LYMPHATIC INVASION: No
CALCIFICATION: No
TUMOR TYPE, IN SITU: Solid
SURGICAL MARGINS INVOLVED BY INVASIVE COMPONENT: No
Distance of invasive tumor to closest margin: 4 mm
SURG MARGINS INVOLVED BY IN SITU COMPONENT: No
LYMPH NODES POSITIVE: 2
LYMPH NODES EXAMINED: 24
METHOD(S) OF LYMPH NODE EXAMINATION: H/E stain
SIZE OF NODAL METASTASES: Diameter of largest lymph node metastasis: 40 mm
LYMPH NODE METASTASIS(-ES) WITH EXTRACAPSULAR EXTENSION: No
SKIN INVOLVED (ULCERATION): No
NON-NEOPLASTIC BREAST TISSUE: FCD
T STAGE, PATHOLOGIC: pT1c
N STAGE, PATHOLOGIC: pN1a
M STAGE: Not applicable
ESTROGEN RECEPTORS: positive, H-score: 300
PROGESTERONE RECEPTORS: positive, H-score: 235
HER2/NEU: 1+