



\*ADDENDUM\*

Addendum #1

Entered:

BREAST CANCER PROGNOSTIC MARKERS

Specimen: Paraffin block 3A

Procedures: Paraffin Section Immunohistochemistry and DNA Flow Cytometry

ASSAYS: RANGES:	RESULTS:	FAVORABLE
Estrogen Receptors 3+)	Positive, 2-3+	Positive (1 -
Progesterone Receptors 3+)	Positive, 3+	Positive (1 -
Ploidy/DNA Index (DI) 1.0	Aneuploid, DI=1.19, 2.01	Diploid, DI =
S-Phase Fraction (%) less)	Not Reported **	Low (3% or
Ki-67 (Proliferation marker) less)	High, 40-50%	Low (15% or
HER-2/neu (c-erb B2)* 1+)	Negative (0)	Negative (0 -
p53	Weakly Positive	Negative

\*\* S-phase fraction is not reported due to multiple aneuploid peaks.

\*This immunoperoxidase test was developed and its performance characteristics determined by XX. Although not cleared or approved by the U.S. Food and Drug Administration, the FDA has determined that such clearance or approval is not necessary. This test is used for clinical purposes and should not be regarded as investigational or for research. This laboratory is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA) as qualified to perform high complexity clinical laboratory testing.

ICD-0-3

Addendum Signed signature on file

*Carcinoma, pleomorphic 862213*  
*Site: 04 Breast, midline C50.8*  
*Ji 5/30/14*

## GROSS DESCRIPTION

1. Labeled "blue node, left axilla": The specimen consists of a bilobed blue dye stained apparent lymph node and fatty tissue. The fatty tissue is trimmed, revealing a lymph node that measures 1.6 x 1.0 x 0.4 cm. It is bisected and all embedded as 1A.  
Cytokeratin stain.
2. Labeled "suspicious node, left axilla": The specimen consists of a tan yellow firm apparent lymph node that measures 1.0 x 0.5 x 0.3 cm. Bisected and all embedded as 2A.
3. Labeled "segment, left breast, long stitch anterolateral, short stitch anteromedial":  
The specimen consists of a blue dye stained piece of yellow tan tissue with orienting stitches. It measures 3.2 cm medial to lateral, 2.8 cm superior to inferior and 4.4 cm in depth. At the deep aspect of the tissue, there is a firm gritty tan nodule. The specimen is inked as follows: anterior - yellow, green - superior, black - lateral, blue - inferior, red - medial, orange - deep. Sections through the tissue show a gritty solid tan mass at the deep lateral aspect of the specimen, measuring 2.0 x 2.0 x 1.7 cm. Representative tumor and normal tissue are provided for XXXX research studies (IRB# xxxxxxxxxxxxxxxx). Multiple representative sections are embedded serially from posterior to anterior as 3A-G (tumor in blocks 3A-D).
4. Labeled "addition segment, left breast, no orientation": The specimen consists of four pieces of yellow tan hemorrhagic and blue dye stained tissue that measure in aggregate approximately 6.0 x 3.0 x 2.0 cm. The tissue is focally firm, but no definite tumor is identified grossly. Multiple representative sections are embedded as 4A-D, 4E-J - additional firm areas of tissue.
5. Labeled "left breast lower quadrant mass": The specimen consists of three pieces of firm and soft tissue that measure in aggregate approximately 2.0 x 1.3 x 1.0 cm. One piece represents a firm gray nodule, or portion thereof, measuring 1.4 x 0.8 x 0.2 cm. The entire nodule and representative other tissue is embedded as 5A-B.
6. Labeled "inferior margin left breast": The specimen consists of a piece of gray yellow tissue that measures 2.3 x 1.0 x 0.3 cm. Embedded as 6A.
7. Labeled "superior margin left breast": The specimen consists of a piece of blue dye stained yellow tissue that measures 1.2 x 1.0 x 0.2 cm. Embedded as 7A.
8. Labeled "medial margin, left breast": The specimen consists of a piece of gray yellow tissue that measures 2.2 x 1.3 x 0.3 cm. Embedded as 8A.
9. Labeled "lateral margin, left breast": The specimen consists of a piece of

reddish

yellow and gray tissue that measures 1.5 x 0.6 x 0.2 cm. Embedded as 9A.

10. Labeled "anterior margin, left breast": The specimen consists of a piece of gray tissue that measures 1.6 x 0.6 x 0.2 cm. Embedded as 10A.

11. Labeled "deep margin, left breast": The specimen consists of a piece of yellow red tissue that measures 1.5 x 1.4 x 0.2 cm. Embedded as 11A.

12. Labeled "left breast lower quadrant skin": The specimen consists of a piece of gray pink tissue that measures 1.0 x 0.5 x 0.2 cm. Embedded as 12A.

Microscopic H&E stained sections are prepared and interpreted.

#### MICROSCOPIC

Sections show an infiltrating mammary carcinoma characterized by poor tubule formation, intermediate nuclear grade and high mitotic activity. The tumor cells infiltrate as sheets, single file, alveolar nests and occasional larger nests. The tumor has a tendency to infiltrate around existing ductal structures and focally formed targetoid lesions around this. Focal early necrosis is noted. There is a desmoplastic stromal response.

#### IMMUNOCYTOCHEMISTRY RESULTS

Block 1A  
Keratin: Negative

Block 3A  
E-Cadherin: Negative

#### DIAGNOSIS

1. SENTINEL LYMPH NODE, AXILLA, LEFT, BIOPSY:  
- ONE LYMPH NODE, NEGATIVE FOR METASTATIC CARCINOMA BY H&E EXAMINATION (0/1).
2. LYMPH NODE, AXILLA, LEFT, BIOPSY:  
- ONE LYMPH NODE, NEGATIVE FOR METASTATIC CARCINOMA (0/1).
3. BREAST, LEFT, SEGMENTECTOMY:  
- INFILTRATING LOBULAR CARCINOMA, PLEOMORPHIC TYPE, POORLY DIFFERENTIATED, 2.0 CM.  
- NO IN SITU COMPONENT SEEN.  
- NO DEFINITE LYMPHOVASCULAR INVASION IDENTIFIED.  
- FOCAL BIOPSY RELATED CHANGES NOTED.  
- TUMOR INVOLVES POSTERIOR, LATERAL AND SUPERIOR MARGINS (SEE ADDITIONAL SEGMENT AND SEPARATELY SUBMITTED MARGINS BELOW).

CHANGE. - ADDITIONAL FINDINGS INCLUDE ATYPICAL LOBULAR HYPERPLASIA AND FIBROCYSTIC  
- MICROCALCIFICATIONS NOTED ASSOCIATED WITH BENIGN GLANDULAR ELEMENTS.

4. BREAST, LEFT, ADDITIONAL SEGMENT, SEGMENTECTOMY:  
- ATYPICAL LOBULAR HYPERPLASIA.  
- NO ADDITIONAL CARCINOMA SEEN.  
- ADDITIONAL FINDINGS INCLUDE RADIAL SCAR FORMATION AND FIBROCYSTIC CHANGE  
WITH FIBROADENOMATOUS CHANGE.

5. BREAST, LEFT, LOWER QUADRANT, EXCISIONAL BIOPSY:  
- CLUSTERED, CYSTICALLY DILATED DUCTS WITH PAPILLOMA FORMATION AND STROMAL  
FIBROSIS, CONSISTENT WITH RADIAL SCAR.  
- NEGATIVE FOR ATYPIA AND MALIGNANCY.

6. BREAST, LEFT, INFERIOR MARGIN, BIOPSY:  
- BENIGN BREAST PARENCHYMA WITH RADIAL SCAR FORMATION.  
- NEGATIVE FOR MALIGNANCY.

7. BREAST, LEFT, SUPERIOR MARGIN, BIOPSY:  
- BENIGN BREAST PARENCHYMA.  
- NEGATIVE FOR MALIGNANCY.

8. BREAST, LEFT, MEDIAL MARGIN, BIOPSY:  
- BENIGN BREAST PARENCHYMA.  
- NEGATIVE FOR MALIGNANCY.

9. BREAST, LEFT, LATERAL MARGIN, BIOPSY:  
- BENIGN BREAST PARENCHYMA.  
- NEGATIVE FOR MALIGNANCY.

10. BREAST, LEFT, ANTERIOR MARGIN, BIOPSY:  
- BENIGN BREAST PARENCHYMA.  
- NEGATIVE FOR MALIGNANCY.

11. BREAST, LEFT, DEEP MARGIN, BIOPSY:  
- BENIGN SKELETAL MUSCLE AND FIBROADIPOSE TISSUE.  
- NEGATIVE FOR MALIGNANCY.

12. SKIN, BREAST, LEFT, LOWER QUADRANT, BIOPSY:  
- MINIMAL SUPERFICIAL PERIVASCULAR CHRONIC INFLAMMATION.  
- NO INTRALYMPHATIC TUMOR SEEN.  
- NEGATIVE FOR MALIGNANCY.

#### BREAST CANCER PROGNOSTIC SUMMARY

SITE:	LEFT BREAST 1-2 O'CLOCK
TUMOR SIZE:	2.0 CM
TUMOR TYPE:	INFILTRATING LOBULAR CARCINOMA, PLEOMORPHIC TYPE
HISTOLOGIC GRADE:	POORLY DIFFERENTIATED
MODIFIED BLOOM- RICHARDSON SCORE:	8/9 (TUBULES 3, NUCLEI 2, MITOSES 3)
IN SITU CARCINOMA:	NOT PRESENT
TYPE:	.
EXTENSIVE IN SITU CARCINOMA:	.
MARGINS OF RESECTION:	POSTERIOR, LATERAL AND SUPERIOR SEGMENTS MARGINS OF
INITIAL	SEGMENT ARE POSITIVE. ADDITIONAL SEGMENTS AND SIX
SEPARATELY	SUBMITTED MARGIN BIOPSIES ARE NEGATIVE.
NIPPLE/SKIN INVOLVEMENT:	CANNOT ASSESS

LYMPHOVASCULAR INVASION:	NOT IDENTIFIED
LYMPH NODES:	NEGATIVE
# POSITIVE/TOTAL COUNT:	0/2
SENTINEL NODE:	NEGATIVE (1)
TNM PATHOLOGIC STAGE:	pT1c N0 (sn)(i-) MX
MOLECULAR STUDIES:	BLOCK 3A

Signed Electronically signed by:

\*\* END OF REPORT \*\*

Criteria	Yes	No
Diagnosis Discrepancy		/
Primary Tumor Site Discrepancy		/
HIPAA Discrepancy		/
Prior Malignancy History		/
Dual/Synchronous Primary Malignancy		/
Case is (circle):	<input checked="" type="radio"/> QUALIFIED <input type="radio"/> DISQUALIFIED	
Reviewer Initials	Date Reviewed 11/27/13	