UUID:7B53A0D4-E13E-4573-B0A2-BB55AE54BD62 TCGA-S3-A6ZF-01A-PR Redacted

MRN: Patient: Admission Date: Ordering Physician:		Sex/DOB: Female Discharge Date:					
	Pathology Adde	endum Report					
Collected Date/Time: Received Date/Time:							
Addendum Report ASSAY PERFORMED: HER2 Dual ISH DNA PR		DUAL IN SITU HYBRIDIZATION USING THE					
Number of nuclei scored:	20	Carcinoma, infilhating duct NOS Site Breast NOS C 50.9					
Total HER2 signals:	60	6500/3					
Total CHR 17 signals:	39	Site Bunct NOS CEDS					
HER2/CHR 17 ratio:	1.5	By Great, upper outer quadrant					
NOTE: THE ASSAY WAS		AFTER THE HER2/NEU IMMUNOSTAIN WAS 2+.					
SPECIMEN TYPE: The block C3.	HER2 is perfor	rmed on a formalin-fixed paraffin-embedded tissue slide from					
HER2 is detected by a dinit detection kit. The Chr17 ce detection kit. Dual ISH stai	e to be co-hybridized and visualized via li trophenyl (DNP) labeled probe visualized intromere is targeted with a digoxigenin (ining results in visualization by light micr						
are present in 20 represents recommended to score an a	tive nuclei. If the resulting HER2 / Chr1	eader records the scores for HER2 and Chr17 copy numbers that 7 ratio falls within 1.8-2.2 (EQUIVOCAL) the reader is 0 is calculated from the total 40 nuclei. HER2 gene status is $UChr17 \ge 2.0$).					
Printed by: Copied to: Distribute to:	Page 1	1 of 7 Print Date/Time: Patient Locations:					

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f this assay were determined by

is assay has been approved by the U.S. Food and Drug Administration. This laboratory is certified under the Chimical Laboratory Improvement Amendments of 1988 (CLIA-88) as qualified to perform high-complexity clinical laboratory testing.

cpt: 88368 x2

(Electronic signature)

Verified:

Collected Date/Time: Received Date/Time:

Accession Number:

Addendum Report

IMMUNOHISTOCHEMICAL EVALUATION OF ESTROGEN RECEPTORS, PROGESTERONE RECEPTORS, AND HER-2NEU IN INVASIVE MAMMARY CARCINOMA .

ESTROGEN RECEPTORS: 99 %, positive.
PROGESTERONE RECEPTORS: 40 %, positive.

STAINING INTENSITY: moderate

HER-2NEU: SCORE 2+, EQUIVOCAL.

Immunohistochemical studies were performed on formalin fixed paraffin embedded tissue (Block C3) using the following monoclonal antibodies: Estrogen receptor (Clone SP1), Progesterone receptor (Clone 1E2) and Her-2neu Clone 4B5); control sections for HER-2Neu are provided within a kit (score 0 MCF-7, score 1+ T-47D, score 2+ MDA-MB-453, score 3+ BT-474). Detection system used: polymer. Primary antibodies, reagents and control sections for HER-2neu are all provided by

All controls show appropriate reactivity.

Reactivity of Estrogen and Progesterone receptors is determined based on the percentage of positively stained nuclei of tumor cells. Reference values (CAP accreditation program checklist 2010 and guidelines on webpage):

Positive: nuclear staining in 1% or greater than 1% of invasive carcinoma cells

Negative: nuclear staining in less than 1% of invasive carcinoma cells

Staining intensity: is reported as weak, moderate or strong.

HER-2neu reactivity is reported applying the CAP scoring guidelines (CAP accreditation program checklist 2010 and guidelines on webpage):

Score 0 = Negative: No immunoreactivity, or faint weak immunoreactivity in <10% of tumor cells but only a portion of the membrane is positive..

Score 1 = Negative: Faint weak immunoreactivity in 10% or >10% of tumor cells but only a portion of the membrane is positive.

Score 2+ = Equivocal: Weak to moderate complete membrane immunoreactivity in >10% of tumor cells or

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circumferential intense membrane staining in <30% of cells.

Score 3+ = Positive: More than 30% of the tumor cells must show circumferential intense and uniform membrane staining. A homogeneous (chicken wire) pattern should be present.

Equivocal results for HER-2neu (Score 2+) will be subsequently followed by a reflex dual-color ISH testing.

The performance characteristics of these antihodies were determined by the

by have not been cleared or approved by the U.S. Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary. These tests are used for clinical purposes. They should not be regarded as investigational or for research. This laboratory is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA-88) as qualified to perform high-complexity clinical laboratory testing.

(Electronic signature) Verified

Surgical Pathology Report

Collected Date/Time:

Accession Number:

Received Date/Time:

Final Diagnosis

- A. RIGHT BREAST, CORE BIOPSY:
 - INVASIVE DUCTAL CARCINOMA.
- B. RIGHT SENTINEL LYMPH NODE, BIOPSY:
- NO EVIDENCE OF CARCINOMA IN ONE LYMPH NODE.
- SEE SPECIAL STAINS SECTION.
- C. RIGHT BREAST, TOTAL MASTECTOMY:
 - INVASIVE DUCTAL CARCINOMA GRADE 2, 2.5 CM.
 - MARGINS OF RESECTION ARE FREE OF CARCINOMA.
 - SEE SYNOPTIC REPORT, SPECIAL STAINS SECTIONS AND NOTE.

NOTE: hormonal receptors and Her2-neu status will be reported in an addendum.

(Electronic signature)

. Verified:

Synoptic Report

SPECIMEN:

Total breast (including nipple and skin)

PROCEDURE:

Total mastectomy (including nipple and skin)

MRN: Patient:

Sex/DOB: Female

Surgical Pathology Report

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LYMPH NODE SAMPLING:

Sentinel lymph node(s)

SPECIMEN INTEGRITY:

Single intact specimen (margins can be evaluated)

SPECIMEN SIZE:

Greatest dimension: 26 cm Additional dimensions: 17 x 6 cm

SPECIMEN LATERALITY:

Right

TUMOR SITE: INVASIVE CARCINOMA:

Upper outer quadrant

TUMOR SIZE: SIZE OF LARGEST INVASIVE CARCINOMA:

Greatest dimension of largest focus of invasion over 0.1 cm: 2.5 cm

Additional dimensions: 2.0 x 2.0 cm

TUMOR FOCALITY:

Single focus of invasive carcinoma

MACROSCOPIC AND MICROSCOPIC EXTENT OF TUMOR:

Skin: Invasive carcinoma does not invade into the dermis or epidermis

DUCTAL CARCINOMA IN SITU (DCIS):

DCIS is present

Extensive intraductal component (EIC) negative

SIZE (EXTENT) OF DCIS:

Estimated size (extent) of DCIS (greatest dimension using gross and microscopic evaluation) is at least 0.3 cm (constituting about 5% of the entire tumor mass.)

ARCHITECTURAL PATTERNS:

Comedo

Cribriform

NUCLEAR GRADE:

Grade III (high)

NECROSIS:

Present, central (expansive "comedo" necrosis)

LOBULAR CARCINOMA IN SITU (LCIS):

Not identified

HISTOLOGIC TYPE OF INVASIVE CARCINOMA:

Invasive ductal carcinoma (no special type or not otherwise specified)

GLANDULAR (ACINAR)/TUBULAR DIFFERENTIATION:

Score 2: 10% to 75% of tumor area forming glandular/tubular structures

NUCLEAR PLEOMORPHISM:

Score 3: Vesicular nuclei, often with prominent nucleoli, exhibiting marked variation in size and shape, occasionally with very large and bizarre forms

MITOTIC COUNT:

Score 2

OVERALL GRADE:

Grade 2: scores of 6 or 7

MARGINS:

Margins uninvolved by invasive carcinoma

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Distance from closest margin: 25 mm
Distance from posterior margin: 25 mm
Margins uninvolved by DCIS (if present)
Distance from closest margin: posterior mm
Distance from posterior margin: 25 mm

LYMPH-VASCULAR INVASION:

Present

DERMAL LYMPH-VASCULAR INVASION:

Not identified

LYMPH NODES:

Number of sentinel lymph nodes examined: 1 (no tumor seen)

Total number of lymph nodes examined (sentinel and nonsentinel): 1

METHOD OF EVALUATION OF SENTINAL LYMPH NODES:

H&E, multiple levels

Immunohistochemistry

PRIMARY TUMOR (INVASIVE CARCINOMA (pT):

pT2: Tumor >20 mm but less than or equal to 50 mm in greatest dimension

REGIONAL LYMPH NODES (pN):

pNO: No regional lymph node metastasis identified histologically

DISTANT METASTASIS (M):

Not applicable

ADDITIONAL PATHOLOGIC FINDINGS:

intraductal papilloma

MICROCALCIFICATIONS:

Present in DCIS

Source of Specimen

A Core Biopsy, RT Breast

B Lymph Nodes, Sentinel Right

C RT Total Mastectomy

Clinical Information

Palpable mass upper central FNAB positive, patient with right breast mass

PRE-OP DIAGNOSIS: Right breast cancer

POST-OP DIAGNOSIS: Same

TYPE OF PROCEDURE: Right mastectomy and sent to the node biopsy

Gross Description

Specimen is received in 3 parts:

A. The specimen is labeled "CORE BIOPSY" and is received unfixed for frozen section diagnosis. It consists of 2 cylindrical pieces of gray-tan soft tissue each measuring 1.5 cm in length and 0.1 cm diameter. Entirely submitted in cassette FSA 1.

Time specimen was removed from the patient

Time specimen was placed in formalin

MRN:
Patient:

Sex/DOB: Female

Surgical Pathology Report

Collected Date/Time: Received Date/Time:

Accession Number:

Ischemic time: 20 minutes

B. The specimen is labeled "RIGHT SENTINEL NODE" and is received unfixed for frozen section diagnosis. (Specimen is in formalin mother 6 hour and less than 48 hours). It consists of a ymph node measuring 1.6 x 1 x 0.5 cm. Sectioned and entirely submitted in cassette FSB 1.

Time specimen was removed from the patient:

Time specimen was placed in formalin:

Ischemic time: 22 minutes

C. The specimen is labeled "RIGHT TOTAL MASTECTOMY" and is received in formalin. (The specimen is in the formalin more than 6 hours and less than 48 hours). It consist of mastectomy specimen without lymph nodes weighing 990 grams and measuring 26 x 17 x 6 cm with brown skin ellipse measuring 24 x 12 cm, containing grossly unremarkable 1.5 cm in diameter nipple. The skin is tagged with a black stitch designating lateral breast. The posterior margin is composed of smooth fascia which is inked black. The breast is sliced in sagittal planes revealing a 2.5 x 2 x 2 cm an ill-defined firm area which is 2.5 cm away from the deep margin of resection. The remaining portions reveal unremarkable yellow mammary fat with streaks of white-gray mammary parenchyma. Representative sections submitted as follows:

C1 = nipple

C2-C6 = upper outer quadrant mass

C7 = upper outer quadrant, posterior margin of resection in correspondence of the mass

C8 = representative section upper inner quadrant

C9 = representative section upper outer quadrant

C10 = representative section lower outer quadrant

C11 = representative section lower inner quadreant

Time specimen was removed from the patient.

Time specimen was sectioned and placed in formalin

Ischemic time: 15 minutes

Dictated by

Intra Operative Consultation

- A. Right breast cores = carcinoms
- B. Right sentinel node = no tumor seen

Special Stains / Slides

Immunohistochemical studies were performed on formalin fixed, paraffin-embedded tissue (Block B1) with adequate positive and negative control sections.

Cytokeratins AE1/AE3 and Cam5.2 fail to reveal metastatic carcinoma.

The performance characteristics of these antibodies were determined by the

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16 H&E, 4 FS, 16 H&E

MRN:	
Patient:	

Sex/DOB: Female

Surgical Pathology Report

Collected Date/Time: Received Date/Time:

Accession Number:

Tissue Code

riteria	M	7/10	13	Yes	No.
Diagnosis Discre	ancy '		!		+ Y/
rimary Tumor S	te Discrepanc	y			1
IIPAA Discrepan	CY				
rior Malignancy	History				1
Jual/Synchrono		*			
Case is (circle):	Cqu	ALIEUZO	/ DISQU	JALIFIED	
Reviewer Initials	KIN	Date Revie	wed:	1012	713