

1cb-0-3

Carcinoma, infiltrating duct, NOS

8500/3 12/8/10

Path  
CQCF

Site code: breast, lower outer quadrant  
Site: breast, NOS C50.9

C50.5

**TSS:**

UUID: 7CA117DA-5D1C-4F8B-8330-5C58FE05DE36  
TCGA-E2-A159-01A-PR

Redacted

**SPECIMENS:**

- A. RIGHT TUBE AND OVARY
- B. UTERUS WITH LEFT TUBE, OVARY AND CERVIX
- C. SENTINEL LYMPH NODE #1 LEFT AXILLA
- D. SENTINEL LYMPH NODE #2 LEFT AXILLA
- E. SLN #3
- F. SLN #4
- G. WLE LEFT BREAST NEEDLE LOCALIZATION

**SPECIMEN(S):**

- A. RIGHT TUBE AND OVARY
- B. UTERUS WITH LEFT TUBE, OVARY AND CERVIX
- C. SENTINEL LYMPH NODE #1 LEFT AXILLA
- D. SENTINEL LYMPH NODE #2 LEFT AXILLA
- E. SLN #3
- F. SLN #4
- G. WLE LEFT BREAST NEEDLE LOCALIZATION

**GROSS DESCRIPTION:**

**A. RIGHT TUBE AND OVARY**

Received fresh is a 90 gm ovary and fallopian tube. There is a 7 x 5 x 4.5 cm thin walled multiloculated, translucent paratubal cyst filled with clear fluid. There are no papillary excrescences seen. Representative sections submitted for frozen section and resubmitted for permanent examination in cassette FSA1. The ovary measures 3.5 x 3 x 2 cm. The ovary is bisected to reveal pale yellow cut surface. One corpus luteum cyst is present measuring 1.5 x 0.8 x 0.7 cm. The fallopian tube measures 7.5 cm in length, 0.5 cm in diameter. Serial section through the fallopian tube to reveal unremarkable cut surface. Representative sections submitted for microscopic examination as follows:

- A1: cyst
- A2: section from the ovary
- A3: 3 sections from the fallopian tube
- A4: 2 sections from the paratubal cyst

**B. UTERUS WITH LEFT TUBE, OVARY AND CERVIX**

Received in formalin is a 1,421 gm uterus with left fallopian tube and ovary. The uterus measures 19 cm from superior to inferior, 10 cm from right to left, 14 cm from anterior to posterior. The cervix measures 5.5 cm in length, 4 cm in diameter. Serosal surface is pale, smooth and glistening. Multiple leiomyomas are identified protruding from the anterior surface ranging in size from 2.5 cm in diameter to 9 x 5.5 x 4 cm. The anterior uterus is inked in blue, posterior is inked in black. The uterus is bivalved to reveal multiple leiomyomas in the myometrium and right under endometrium ranging in size from 0.7 cm in diameter to 8 cm in diameter. The endometrial cavity is distorted by the leiomyomas. The leiomyoma is serial sectioned to reveal white whorled cut surface with focal necrosis. The uterine cervix is sectioned to reveal a cystic lesion containing yellow sticky material at posterior cervix measuring 2.5 cm in diameter. The left ovary measures 3 x 2 x 1.5 cm. The left fallopian tube measures 8 cm in length and 0.6 cm in diameter. A paratubal cyst measuring 2 cm in diameter is identified with thin wall and contains clear fluid. The ovary and fallopian tube are serial sectioned to reveal unremarkable cut surface. Summary of sections submitted for microscopic examination as follows:

- B1: anterior cervix
- B2: posterior cervix with cyst
- B3-B4: 2 sections from the anterior uterus endometrium
- B5-B6: 2 sections from the posterior uterus endometrium
- B7-B10: each has 2 sections from the largest leiomyoma
- B11-B12: each has 2 sections from the 2nd largest leiomyoma
- B13: section from left ovary including cyst
- B14: 3 sections from the fallopian tube
- B15-B16: each has 2 sections from the largest leiomyoma.

**C. SENTINEL LYMPH NODE #1 LEFT AXILLA**

Received fresh are two tan pink lymph nodes 1.5 x 1.2 x 0.7cm and 2 x 1.5 x 1cm. The specimens are sectioned and a touch prep is taken.

- C1: 1 lymph node
- C2: 1 lymph node

**D. SENTINEL LYMPH NODE #2 LEFT AXILLA**

Received fresh is a tan pink lymph node 0.5 x 0.4 x 0.4cm. The specimen is sectioned and a touch prep is taken.

- Toto D1.
- E. SLN #3

Received fresh is a tan pink lymph node 1 x 0.5 x 0.4cm. The specimen is sectioned and a touch prep is taken. Toto E1.

**F. SLN #4**

Received fresh is a tan pink lymph node 0.5 x 0.4 x 0.4cm. The specimen is sectioned. Toto F1.

**G. WLE LEFT BREAST NEEDLE LOCALIZATION**

Received fresh labeled with the patient's identification and "left breast needle localization" is an oriented 58g, 6.5 x 6.5 x 4.8cm needle localized lumpectomy with radiograph. Ink code: anterior-orange, posterior-black, superior-blue, inferior-yellow, medial-green, lateral-red. Specimen is serially sectioned from medial to lateral into 7 slices revealing a 2 x 2 x 2cm tan white firm well circumscribed mass, 0.6cm from the closest posterior margin in slices 3-5. A portion of the specimen is submitted for tissue procurement. Representatively submitted:

G1: medial margin slice 1

G2-G3: next to mass slice 2

G4-G5: superior margin slice 3

G6: deep margin slice 3

G7-G8: inferior margin slice 3

G9: anterior margin slice 3

G10-G11: mass slice 3

G12-G17: slice 4

G18: mass slice 5

G19: deep margin slice 5

G20: next to mass slice 6

G21-G24: lateral margin slice 7

**DIAGNOSIS:**

**A. OVARY AND FALLOPIAN TUBE, RIGHT, SALPINGO-OOPHORECTOMY:**

- BENIGN OVARY.
- FALLOPIAN TUBE WITH PARATUBAL CYST.

**B. UTERUS, OVARY AND FALLOPIAN TUBE, LEFT, HYSTERECTOMY AND SALPINGO-OOPHORECTOMY:**

- WEAKLY PROLIFERATIVE ENDOMETRIUM.
- ADENOMYOSIS.
- LEIOMYOMAS, LARGEST MEASURING 9 CM.
- BENIGN CERVIX, OVARY AND FALLOPIAN TUBE.

**C. SENTINEL LYMPH NODE #1, LEFT AXILLA, BIOPSY:**

- TWO LYMPH NODES, NO TUMOR SEEN (0/2).

**D. SENTINEL LYMPH NODE #2, LEFT AXILLA, BIOPSY:**

- ONE LYMPH NODE, NO TUMOR SEEN (0/1).

**E. SENTINEL LYMPH NODE #3, LEFT AXILLA, BIOPSY:**

- ONE LYMPH NODE, NO TUMOR SEEN (0/1).

**F. SENTINEL LYMPH NODE #4, LEFT AXILLA, BIOPSY:**

- FIBROADIPOSE TISSUE, NO LYMPH NODE OR TUMOR SEEN.

**G. BREAST, LEFT, NEEDLE LOCALIZATION WIDE LOCAL EXCISION:**

- INVASIVE DUCTAL CARCINOMA, SBR GRADE 3, WITH NECROSIS, LYMPHOID INFILTRATE, AND FOCAL SQUAMOUS FEATURES.
  - TUMOR MEASURES 2.2 CM.
  - MARGINS, FREE OF TUMOR.
- DUCTAL CARCINOMA IN SITU (DCIS), SOLID TYPE, NUCLEAR GRADE 3, MINOR COMPONENT.

**SYNOPTIC REPORT - BREAST**

Specimen Type: Excision  
Needle Localization: Yes - For mass  
Laterality: Left  
Invasive Tumor: Present

Multifocality: No

**WHO CLASSIFICATION**

Invasive ductal carcinoma, NOS 8500/3

Tumor size: 2.2cm

Tumor Site: 4:00

Margins: Negative

Distance from closest margin: Greater than 0.5cm  
all margins

Tubular Score: 3

Nuclear Grade: 3

Mitotic Score: 3  
Modified Scarff Bloom Richardson Grade: 3  
Necrosis: Present  
Vascular/Lymphatic Invasion: None identified  
Lobular neoplasia: None  
Lymph nodes: Sentinel lymph node only  
Lymph node status: Negative 0 / 4

DCIS present  
DCIS Quantity: Estimate 5%  
DCIS Type: Solid  
DCIS Location: Associated with invasive tumor  
Nuclear grade: High

ER/PR/HER2 Results  
ER: Negative  
PR: Negative  
HER2: Negative by FISH

Pathological staging (pTN): pT 2 N 0

#### SYNOPTIC REPORT - BREAST, ER/PR RESULTS

Specimen: Surgical Excision  
Block Number: G18

ER: Negative Allred Score: 0 = Proportion Score 0 + Intensity Score 0  
PR: Negative Allred Score: 2 = Proportion Score 1 + Intensity Score 1

#### COMMENT:

The Allred score for estrogen and progesterone receptors is calculated by adding the sum of the proportion score (0 = no staining, 1 = <1% of cells staining, 2 = 1 - 10% of cells staining, 3 = 11-30% of cells staining, 4 = 31-60% of cells staining, 5 = >60% of cells staining) to the intensity score (1 = weak intensity of staining, 2 = intermediate intensity of staining, 3 = strong intensity of staining), with a scoring range from 0 to 8.

ER/PR positive is defined as an Allred score of >2 and ER/PR negative is defined as an Allred score of less than or equal to 2.

#### METHODOLOGY:

Tissue was fixed in 10% neutral buffered formalin for no less than 8 and no longer than 24 hours. Immunohistochemistry was performed using the mouse anti-human ER (ER 1D5, 1:100) and PR (PGR 136, 1:100) provided by Dako following the manufacturer's instructions. This assay was not modified. Interpretation of the ER/PR immunohistochemical stain is guided by published results in the medical literature, information provided by the reagent manufacturer and by internal review of staining performance.

#### CLINICAL HISTORY:

year-old female G3 P3 with invasive ductal cancer of the left breast and uterine fibroid

#### PRE-OPERATIVE DIAGNOSIS:

Left breast DCIS, Adnexal cyst and uterine fibroid

#### INTRAOPERATIVE CONSULTATION:

FSA: Right tube and ovary: Benign cyst-defer further classification to permanent.

Diagnosis by Dr., called to Dr. at :

TPC1-2/TPD/TPE: SLN #1, 2, 3, left axilla - No tumor seen.

F. GROSS EXAMINATION: SLN #4 left axilla: No tumor seen.

Diagnosis called to Dr. at (C-F) by Dr.

#### Gross Dictation:

Microscopic/Diagnostic Dictation: Pathologis

Final Review: Pathologist 1

Final: Pathologist,

Criteria	Yes	No
Diagnosis Discrepancy		
Primary Tumor Site Discrepancy		
HPAA Discrepancy		
Prior Malignancy History		
Dual/Synchronous Primary Noted		
Case is (circle):	QUALIFIED	UNQUALIFIED
Reviewer Initials		
Date Reviewed:		