



Sample #

ICD-O-3 NO
Carcinoma, infiltrating duct 8500/3
Site @ Breast NOS 8500/9
pws/16/13

FINAL PATHOLOGIC DIAGNOSIS

Lumpectomy and axillary dissection, right breast,

A. Sentinel lymph node #1, right axilla:

-Microscopic focus (1 mm) of metastatic carcinoma. See comment.

B. Right breast lumpectomy:

-Invasive ductal carcinoma, SBR grade III. See parameters below.

-No in-situ component.

-Uninvolved breast parenchyma is unremarkable.

C. Right axillary contents:

-Thirteen lymph nodes, no tumor (0/13).

Breast Pathologic Parameters

1. Invasive carcinoma:

A. Gross measurement: 1.9 cm

B. Composite histologic (modified SBR) grade III

- Architecture: 3

- Nuclear grade: 3

- Mitotic count: 3

C. Associated ductal carcinoma in situ (DCIS): Not present

2. Excisional biopsy margins: Free of tumor

- Invasive carcinoma is 2 mm from closest (inferior) margin
- Additional margins greater than 2mm away

3. Blood vessel and lymphatic invasion: Absent

4. Axillary lymph nodes: Positive for tumor, (1/14)

- Size of largest metastatic deposit: 1 mm
- Extranodal extension: Absent

5. Special studies (see):

- Rare tumor cells (less than 1%) immunoreact with ER and PR
- Her2/neu antigen (FISH): Negative (ratio = 1.04)

6. pTNM: pT1c, N1mi, MX

Clinical History:

The patient is a -year-old female with a history of right breast mass undergoing right breast lumpectomy and sentinel node biopsy.

Comment

Cytokeratin stains are performed on the sentinel node (blocks A1 and A2). However, the microscopic focus of carcinoma is not present on the deeper sections used for IHC.

Specimens Received:

A: Sentinel Lymph Node Right Breast #1

B: Right Breast Lumpectomy

C: Right Axillary Contents

Gross Description:

The specimen is received in three containers, each labeled with the patient's name and medical record number.

A. Container A is additionally identified as '1. sentinel lymph node, right breast #1.' Received fresh for frozen section diagnosis is a 2.0 x 1.5 x 1.0 cm blue-tan, ovoid lymph node candidate. The specimen is bisected and entirely frozen in cassettes A1FS-A2FS and read as 'A1FS-A2FS positive for metastatic tumor < 2 mm' per Dr. . The frozen section remnants are entirely submitted in cassettes A1FS-A2FS.

B. Container B is additionally identified as '2. right breast lumpectomy; long stitch lateral, short stitch superior.' Received fresh and placed in formalin is a 113.8 gm, oriented lumpectomy specimen. The specimen measures 7.2 cm from lateral to medial, 11.0 cm from anterior to posterior, and 3.0 cm from superior to inferior. The specimen is oriented with a double short suture at superior and a double long suture at lateral.

The specimen is inked as follows:

superior blue

inferior black

anterior green

posterior red

The specimen is serially sectioned from lateral to medial into ten slices. The central aspect of the specimen, within five slices, is notable for a well-circumscribed, centrally spiculated, indurated, otherwise solid, firm, white-pink mass. The mass measures 1.9 x 1.7 x 1.7 cm and abuts both the inferior (black) and inferior/posterior (red/black) margins, diffusely. The second slice from the lateral aspect of the mass shows an identifiable metallic clip. The remainder of the specimen is devoid of additional discrete lesions and is otherwise composed of soft, yellow tissue (85%) and intermixed, glistening and soft, white parenchyma (15%).

Block summary:

B1-B2: lateral margin, serially sectioned

B3-B105: entire specimen from lateral to medial, respectively

B106-B107: medial margin, serially sectioned

(Mass in cassettes B27, B28, B36-B39, B54-B57, B74-B77; clip in cassettes B36-B39.)

C. Container C is additionally identified as '3. right axillary contents.'

Received fresh is a 8.0 x 5.0 x 2.5 cm portion of lobulated, yellow tissue. The specimen is dissected for lymph node candidates.

Block summary:

C1: five lymph node candidates

C2: two lymph node candidates

C3: one lymph node candidate, bisected

C4: one lymph node candidate, bisected

C5: three lymph node candidates

C6: three lymph node candidates

C7: five lymph node candidates

C8: one lymph node candidate, bisected

C9: one lymph node candidate, bisected

C10: one lymph node candidate, bisected

C11: two lymph node candidates

C12: three lymph node candidates

C13: one lymph node candidate, bisected

C14: one lymph node candidate, bisected

C15: one lymph node candidate, bisected

C16: one lymph node candidate, bisected

C17-C19: one lymph node candidate, sectioned

(questionable multiple matted lymph nodes)

Intraoperative Consult Diagnosis:

A1FS-A2FS. Sentinel lymph node, right breast #1: Positive for metastatic tumor

<2 mm.

Pathologist Sign Out:

Criteria	hw 4/12/13	Yes	No
Diagnosis Discrepancy			/
Primary Tumor Site Discrepancy			/
Hist/AA Discrepancy			/
Prior Malignancy History			/
Dual/Synchronous Primary noted			/
Case is Circled		QUALIFIED	DISQUALIFIED
Reviewer Initials	hw	Date Reviewed	4/11/13