

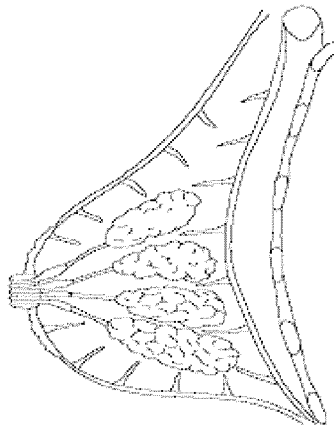


CALIFORNIA  
TUMOR TISSUE REGISTRY

## **“BREAST PATHOLOGY”**

**Study Cases, Subscription B**

**March 2009**



**California Tumor Tissue Registry**  
c/o: Department of Pathology and Human Anatomy  
Loma Linda University School of Medicine  
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Web site & Case of the Month: [www.cttr.org](http://www.cttr.org)

**Target audience:**

Practicing pathologists and pathology residents.

**Goal:**

To acquaint the participant with the histologic features of a variety of benign and malignant neoplasms and tumor-like conditions.

**Objectives:**

The participant will be able to recognize morphologic features of a variety of benign and malignant neoplasms and tumor-like conditions and relate those processes to pertinent references in the medical literature.

**Educational methods and media:**

Review of representative glass slides with associated histories.  
Feedback on consensus diagnoses from participating pathologists.  
Listing of selected references from the medical literature.

**Principal faculty:**

Donald R. Chase, MD  
Amita T. Mistry, MD

**CME Credit:**

Loma Linda University School of Medicine designates this continuing medical education activity for a maximum of 2 hours of Category I of the Physician's Recognition Award of the American Medical Association.  
CME credit is offered for the subscription year only.

**Accreditation:**

Loma Linda University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians.

**Contributor: Catherine Odell, M.D.  
Riverside, CA**

**Case No. 1 - March 2009 B**

**Tissue from: Right breast**

**Accession #30868**

**Clinical Abstract:**

This 24 year old woman discovered a lump in her right breast.

**Gross Pathology:**

The firm lumpectomy specimen was 7 x 6 x 5 cm with a central 3 x 2 x 1 cm soft cystic area.

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**Contributor: Catherine Odell, M.D.  
Riverside, CA**

**Case No. 2 - March 2009 B**

**Tissue from: Left breast**

**Accession #30821**

**Clinical Abstract:**

A 38 year old woman had a left breast mass.

**Gross Pathology:**

The excision biopsy specimen included skin with an underlying 3 x 3 x 2 fibrotic lobular mass.

**Contributor: Lester Thompson, M.D.  
Woodland Hills, CA**

**Case No. 3 - March 2009 B**

**Tissue from: Right breast**

**Accession #30943**

**Clinical Abstract:**

This 27 year old woman presented with a palpable mass in her left breast. A smaller mass was also noted in the right breast at the time of examination. The left breast mass was a fibroadenoma. The study material is from the right breast mass.

**Gross Pathology:**

The right breast mass was 3.8 cm with a solid, fleshy cut surface.

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**Contributor: Lester Thompson, M.D.  
Woodland Hills, CA**

**Case No. 4 - March 2009 B**

**Tissue from: Left breast**

**Accession #30477**

**Clinical Abstract:**

A 49 year old woman had a palpable mass in her left breast. Mammography demonstrated fine calcifications in both breasts but a BiRads 4 calcification pattern in the left breast.

**Gross Pathology:**

The lumpectomy specimen contained a 3 x 2.4 x 2.2 cm stellate firm mass with a gritty cut surface.

**Contributor: W. Michael Green, M.D.  
Oxnard, CA**

**Case No. 5 - March 2009 B**

**Tissue from: Right breast**

**Accession #30591**

**Clinical Abstract:**

This 57 year old woman had a history of bilateral silicone injections. Some years later she underwent bilateral mastectomies.

**Gross Pathology:**

The right breast resection specimen was submitted in multiple fragments, the largest of which was 9 x 9 x 4 cm. The tissue was firm with areas exuding an oily viscous fluid.

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**Contributor: LLUMC Pathology Group (rc)  
Loma Linda, CA**

**Case No. 6 - March 2009 B**

**Tissue from: Left breast**

**Accession #30777**

**Clinical Abstract:**

This 76 year old man presented with a lump in his left breast. He reported that the nipple had been inverted for about 6 months. There had been no drainage or pain.

**Gross Pathology:**

The 552 gram specimen included an ellipse of skin with a retracted nipple. Underlying the skin was a 2.4 x 1.8 cm white tan mass.

**Special Studies:**

ER & PR: Positive

**Contributor: Douglas Hanks, M.D.  
San Francisco, CA**

**Case No. 7 - March 2009 B**

**Tissue from: Right breast**

**Accession #30481**

**Clinical Abstract:**

A 44 year old woman had a right breast mass with associated axillary lymphadenopathy.

**Gross Pathology:**

The mastectomy specimen included a 3.8 cm firm white tumor and a 3.7 cm diameter node in the axillary tail.

**Special Studies:**

Negative: ER, PR, CD56, Synaptophysin, Chromogranin

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**Contributor: LLUMC Pathology Group (jc)  
Loma Linda, CA**

**Case No. 8 - March 2009 B**

**Tissue from: Left breast**

**Accession #30448**

**Clinical Abstract:**

For nine years this 69 year old woman had been followed for a stable lesion in her left breast. It began to slowly enlarge over the prior two years.

**Gross Pathology:**

The 409 gram lumpectomy specimen was 12 x 9 x 6 cm and contained a sharply defined white-tan multinodular mass with foci of hemorrhage.

**Contributor: LLUMC Pathology Group (mp)**  
**Loma Linda, CA**

**Case No. 9 - March 2009 B**

**Tissue from: Right breast**

**Accession #30561**

**Clinical Abstract:**

For six years, the 56 year old woman had observed an enlarging mass in her right breast, which grew rapidly over the last several months.

**Gross Pathology:**

The 9300 gram, 31 x 22 x 20 cm right breast included a large portion of ulcerated skin associated with an exophytic hemorrhagic, largely necrotic tumor which comprised most of the specimen.

**Special Studies:**

Spindle cells:

Positive: Vimentin

Negative: Cytokeratin cocktail, smooth muscle actin, desmin, S100

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**Contributor: LLUMC Pathology Group (kt)**  
**Loma Linda, CA**

**Case No. 10 - March 2009 B**

**Tissue from: Right breast**

**Accession #30778**

**Clinical Abstract:**

For eight years after a left sided lumpectomy for breast cancer, this 64 year old woman had adamantly refused follow up mammograms. The original breast cancer had been treated with post-operative radiation. Her right breast had a large ill-defined mass, felt to be 'nothing but scar tissue'. When the right breast mass began to enlarge and produce pain, she accepted work-up and treatment.

**Gross Pathology:**

The 1,875 gram, 21 x 17 x 10 cm breast resection specimen was largely replaced by an ill defined mass with a central hemorrhagic biopsy cavity.

**Special Studies:**

Positive: Vimentin (strong), desmin (patchy), actin (patchy)

Negative: S100, HMB45