



CALIFORNIA  
TUMOR TISSUE REGISTRY

## **“BONE PATHOLOGY”**

**Study Cases, Subscription B**

**January 2010**



**California Tumor Tissue Registry**  
c/o: Department of Pathology and Human Anatomy  
Loma Linda University School of Medicine  
11021 Campus Avenue, AH 335  
Loma Linda, California 92350  
(909) 558-4788  
FAX: (909) 558-0188  
E-mail: [cttr@linkline.com](mailto:cttr@linkline.com)  
Web page: [www.cttr.org](http://www.cttr.org)  
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

**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: Pamela Boswell, D.O.  
La Jolla, CA**

**Case No. 1 - January 2010 B**

**Tissue from: Left parietal skull**

**Accession #30996**

**Clinical Abstract:**

A 49 year old woman had a mass expanded her left parietal skull.

**Gross Pathology:**

The resected portion of calvarium contained a 5.5 x 4.5 x 3.2 cm mass involving medullary bone with hemorrhagic foci.

---

**Contributor: Robert Riechmann, M.D.  
Glendale, CA**

**Case No. 2 - January 2010 B**

**Tissue from: Rib**

**Accession #30822**

**Clinical Abstract:**

For three years this 24 year old woman had intermittent left posterior rib pain. She associated the onset with an episode of minor trauma. When her pain worsened, a chest x-ray showed a lytic lesion of the left 11<sup>th</sup> rib. A CT scan showed an expansile lytic lesion with areas of cortical disruption.

**Gross Pathology:**

In the mid portion of the 6.3 cm long resected rib was a 1.3 cm spherical gray-tan nodule.

**Contributor: Loma Linda Pathology Group (dr)**  
**Loma Linda, CA**

**Case No. 3 - January 2010 B**

**Tissue from: Left maxilla**

**Accession #30850**

**Clinical Abstract:**

This 33 year old man was found to have a left maxillary tumor.

**Gross Pathology:**

The 46 gram, 6.5 x 5 x 4 cm portion of left palate and maxilla contained a 4.3 x 4 x 3 cm glistening, red-tan variegated tumor with a thin rim of calcification.

---

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

**Case No. 4 - January 2010 B**

**Tissue from: Right fibula**

**Accession #30653**

**Clinical Abstract:**

This 29 year old woman was found to have a mass in her lower leg. Radiographs showed a tumor in her right proximal fibula.

**Gross Pathology:**

The 128 gram 4 x 2.5 x 2.5 cm portion of resected bone had a contiguous 7 x 6 x 4 cm calcified necrotic mass with a heterogeneous cut surface composed of necrotic brown-tan calcified material intermixed with red-tan gelatinous soft tissue.

**Contributor: Alexander Lyster, M.D.  
Accra, Ghana**

**Case No. 5 - January 2010 B**

**Tissue from: Left patella**

**Accession #30756**

**Clinical Abstract:**

For several years this 23 year old man had endured a swollen left knee. When he experienced increased pain associated with more rapid swelling, underwent a excision of his left patella. A preoperative radiograph was interpreted as showing ballooning cystic expansion of the patella.

**Gross Pathology:**

The 22 x 20 x 8 cm intact knobby tan-gray patella showed a cut surface of solid pale gray to tan rubbery nodular areas alternating with hemorrhagic cystic foci.

---

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

**Case No. 6 - January 2010 B**

**Tissue from: Left tibia**

**Accession #30955**

**Clinical Abstract:**

This 21 year old man present with a mass in his left leg.

**Gross Pathology:**

The 102 gram, 9.5 x 4.5 x 3.4 cm resection specimen consisted of an irregular mass with aggregates of bone and cartilage.

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

**Case No. 7 - January 2010 B**

**Tissue from: Left femur**

**Accession #29044**

**Clinical Abstract:**

This 59 year old man presented with pain in his left thigh.

**Gross Pathology:**

The 19 gram, 5.3 x 5.3 x 1.6 cm excision curettage specimen consisted of multiple fragments of pink-tan soft tissue and bone.

---

**Contributor: Herbert Harder, M.D.**  
**Kijabe, Kenya**

**Case No. 8 - January 2010 B**

**Tissue from: Right mandible**

**Accession #30900**

**Clinical Abstract:**

A 17 year old young man presented with a seven year history of progressive swelling of his right cheek.

**Gross Pathology:**

The resection specimen was 13 x 9 x 6 cm and included oral mucosa, a portion of mandible, 8 teeth and an irregular collapsed cystic mass with walls varying from 0.2 to 2.5 cm thick.

**Contributor: Robert Zuch, M.D.  
Baldwin Park, CA**

**Case No. 9 - January 2010 B**

**Tissue from: Left iliac bone and sacrum**

**Accession #30192**

**Clinical Abstract:**

This 58 year old woman presented with a right hip mass. Radiographs showed a large expansive mass in the left iliac bone.

**Gross Pathology:**

The hemipelvectomy specimen contained a 12 cm diameter tumor in the sacrum. The cut surface was chocolate-brown, variegated with an almost honeycomb appearance and a gritty texture.

Special Studies:

Positive: Smooth muscle actin

Negative: CD31, CD34, Factor VIII, Pancytokeratin, EMA

---

**Contributor: Robert Zuch, M.D.  
Baldwin Park, CA**

**Case No. 10 - January 2010 B**

**Tissue from: Femur**

**Accession #30585**

**Clinical Abstract:**

This 27 year old man was found to have a left femoral mass.

**Gross Pathology:**

The right lower extremity hip disarticulation specimen contained a 30 cm bulging mass replacing the distal third of the femur and expanding into surrounding soft tissues.