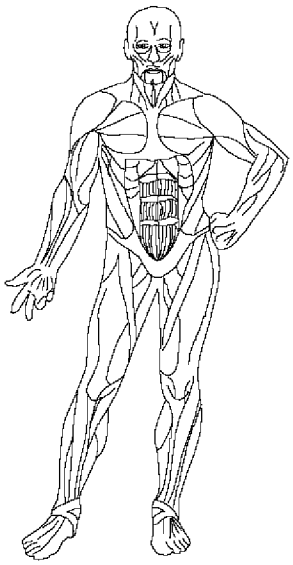
CALIFORNIA
TUMOR TISSUE REGISTRY

January, 2007
Study Cases, Subscription B

Soft Tissue Tumors



California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
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Web site & Case of the Month: 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 up to 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: **Guillermo Acero, M.D.**
Ojai, CA

Mark Janssen, M.D.
Anaheim, CA

Case No. 1 - January, 2007 B

Tissue from: **Left ankle** — **Accession #30442**
Left heel — **Accession #30701**

Clinical Abstract:

A 54-year-old man sought treatment for a protruding lesion in his left heel.

A 62-year-old man complained of a painful nodule on his left heel. The clinical impression was that of an Achilles bursa and tendonitis.

Gross Pathology:

The 1.0 cm in diameter specimen consisted of a circumscribed nodule of gray-tan, firm tissue with a hyperemic capsule.

The white tan specimen was 2.2 x 2 x 0.7 cm.

Contributor: **John Goldblum, M.D.**
Cleveland, OH

Case No. 2 - January, 2007 B

Tissue from: **Right thigh** — **Accession #30521**

Clinical Abstract:

An excisional biopsy was performed on a right thigh mass in a 48-year-old male.

Gross Pathology:

The 15.0 x 12.0 x 8.0 cm specimen included an ellipse of skin with underlying subcutaneous tissue, muscle and deep fascia. Within the muscle and soft tissues was a 13 cm diameter multilobulated, variegated yellow-tan-red mass with multiple gelatinous mucoid areas and foci of hemorrhage.

Contributor: LLUMC Pathology (cz) **Case No. 3 - January, 2007 B**
Loma Linda, CA

Tissue from: Left kidney & perirenal tissues **Accession #30417**

Clinical Abstract:

One and a half years after undergoing a partial nephrectomy for left renal cancer, this 37-year-old woman presented with a hard left psoas/retroperitoneal mass stuck to the kidney remnant. The kidney remnant and the adherent mass were removed.

Gross Pathology:

The 646 gram, 16.0 x 8.0 x 5.5 cm specimen consisted of the remnant superior pole of the kidney, with a 9.0 x 8.0 x 4.0 cm tan, rubbery mass attached inferiorly to the renal hilum. The mass did not appear to invade the renal parenchyma, and had a well demarcated pushing border. The cut surface was trabeculated tan-white and firm to rubbery, with focal areas of pink discoloration. There was a portion of red mesh-like material at the renal hilum. One end of the mesh was completely surrounded by and embedded in one edge of the tan fibrous mass.

Contributor: LLUMC Pathology (np) **Case No. 4 - January, 2007 B**
Loma Linda, CA

Tissue from: Left ankle **Accession #30469**

Clinical Abstract:

A 60-year-old man had had a left ankle nodule for 10 years. For the past 2 years the non-tender mass had gradually enlarged. Radiographs showed a 7 cm mass over the lateral malleolus without calcifications. The radiodensity was not characteristic of fat. Bones and joints appeared intact.

Gross Pathology:

The specimen consisted of a 43.0 gram, 6.0 x 6.0 x 2.5 cm well-circumscribed portion of yellow-tan fibroadipose tissue with white fibrous streaks.

Contributor: Wafa Michael, M.D. **Case No. 5 - January, 2007 B**
Fontana, CA

Tissue from: Right posterior neck **Accession #30468**

Clinical Abstract:
After noting a mass in his right posterior neck, a 79-year-old man consulted his clinician.

Gross Pathology:
The 7.5 x 5.5 x 3.5 cm mass weighed 59.0 grams. Cut sectioning revealed a yellow, smooth surface and a firm, rubbery consistency.

Contributor: Robert Zuch, M.D. **Case No. 6 - January, 2007 B**
Baldwin Park, CA

Tissue from: Buttock **Accession #30424**

Clinical Abstract:
A 41-year-old woman complained of a painful mass in the right buttock area.

Gross Pathology:
The specimen consisted of a 6.5 x 1.0 cm skin ellipse and 15.0 x 12.0 x 10.0 cm of underlying fat and muscle, within which was an 8.5 x 8.2 x 6.8 cm fleshy pink-tan tumor. The tumor appeared to be fairly well delineated from the surrounding tissue, with focal retraction from the surrounding tissue.

Special Studies:

EMA:	positive
CAM 5.2	negative

Contributor: Michele Cosgrove, M.D. **Case No. 7 - January, 2007 B**
Glendale, CA

Tissue from: Left thigh **Accession #30432**

Clinical Abstract:

A 49-year-old man presented with a mass in his left thigh. On physical examination, the mass appeared well-circumscribed, situated just above the fascia but not involving the thigh muscle.

Gross Pathology:

The 4.3 x 4.5 x 3.5 cm ovoid portion of fatty tissue contained a 3.5 x 2.5 x 3.5 cm well-circumscribed mass with pink-tan, glistening, cut surfaces and central necrosis.

Special Studies:

Positive: Vimentin (strongly), Muscle specific actin
Negative: S-100 protein, Desmin, Cytokeratin AE1/AE3, CD99, CD34.

Contributor: Lester Thompson, M.D. **Case No. 8 - January, 2007 B**
Woodland Hills, CA

Tissue from: Arm/Shoulder **Accession #30428**

Clinical Abstract:

A 56-year-old woman with a previous history of breast cancer presented with a mass in the right arm/shoulder region. The mass was a dome-shaped swelling below the intact skin.

Gross Pathology:

The specimen included a subcutaneous well-defined, although not encapsulated, multilobular, myxoid, fleshy neoplasm measuring approximately 3.5 cm in greatest dimension.

Contributor: Robert Zuch, M.D. **Case No. 9 - January, 2007 B**
Baldwin Park, CA

Tissue from: Left anterior thigh **Accession #30394**

Clinical Abstract:

A 75-year-old Caucasian man sought treatment for a painful mass in his left anterior thigh.

Gross Pathology:

The specimen included soft tissue, muscle, and overlying skin. Cut sections revealed an 11.0 x 4.0 x 5.0 cm partially cystic, friable, yellow-brown tumor displacing the muscle in an oblong fashion. The tumor appeared to be confined to the fascial plane.

Contributor: Danielle Lu, M.D. **Case No. 10 - January, 2007 B**
Pasadena, CA

Tissue from: Left mediastinal mass **Accession #30463**

Clinical Abstract:

During work-up for progressive shortness of breath, weight loss and fatigue in this 78-year-old woman, a CT scan revealed an 8.0 x 9.0 x 12.0 cm lesion to the left upper lobe, extending into the mediastinum, with focal atelectasis and a large left pleural effusion.

Gross Pathology:

The 672 gram, well-encapsulated, bosselated, pink-tan mass measured 14.9 x 10.5 x 9.1 cm. Bisection of the specimen revealed a white to pink-tan, pale, flesh to rubbery cut surface.

Special Studies:

Positive: S-100 protein (focal and weak), Vimentin, CD68 (focal).
Negative: Cytokeratin AE1/AE3, CAM 5.2, Desmin, Actin, CD31, CD34, CD11.7, Calretinin, CK5/6.