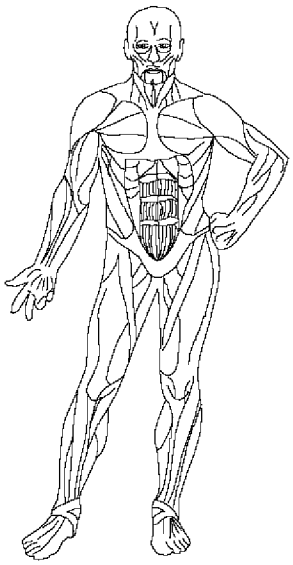
CALIFORNIA
TUMOR TISSUE REGISTRY

October, 2007

Study Cases, Subscription B

Soft Tissue Tumors



California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
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E-mail: cttr@linkline.com
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: Jozef Kollin, M.D.
Lakewood, CA

Case No. 1 - October, 2007 B

Tissue from: Abdominal wall

Accession #30347

Clinical Abstract:

A 20-year-old woman presented with a six-month history of progressive abdominal pain and an abdominal mass that was initially felt to be a hernia. CT of the abdomen showed an abdominal wall mass.

Gross Pathology:

The 800 gram specimen included a 12.0 x 10.0 x 10.0 cm fairly well-circumscribed mass with attached portions of skin and soft tissue. The cut surface was tan rubbery-firm, moist, and glistening, generally homogeneous with focal hemorrhagic spots.

Contributor: Kenneth Frankel, M.D.
Covina, CA

Case No. 2 - October, 2007 B

Tissue from: Right leg

Accession #30223

Clinical Abstract:

A 44-year-old noted a mass in the right leg.

Gross Pathology:

The specimen consisted of a 2.5 cm polypoid-shaped piece of skin. The parenchyma was composed of firm, yellow-tan homogeneous tissue.

Special Studies:

Positive: CD68.
Negative: S-100 protein, Pancytokeratin, HMB-45.

Contributor: Douglas Eglen, M.D. **Case No. 3 - October, 2007 B**
Kokomo, IN

Tissue from: Right scapula **Accession #30318**

Clinical Abstract:

A 66-year-old woman with a history of Raynaud's syndrome and arthritis presented with a 6.0 x 4.0 cm mobile subcutaneous mass at the tip of the scapula, adherent to the serratus anterior muscle. The mass was dissected free of the muscle and excised.

Gross Pathology:

The specimen consisted of two firm nodular pink-tan, soft tissue fragments, individually 5.6 and 2.0 cm in greatest dimension. Sectioning revealed fibrofatty tissue.

Special Studies:

Elastic stain – Positive.

Contributor: Phillip Gordon, M.D. **Case No. 4 - October, 2007 B**
Winter Haven, FL

Tissue from: Scrotum **Accession #30194**

Clinical Abstract:

A 63-year-old man complained of a mass in the left scrotum.

Gross Pathology:

The 43 gram, 12.0 x 4.0 cm specimen consisted of tan and yellow-tan soft tissue with a myxoid yellow-tan, fatty to gelatinous cut surface.

Contributor: Jozef Kollin, M.D.
Lakewood, CA

Case No. 5 - October, 2007 B

Tissue from: Knee

Accession #30010

Clinical Abstract:

Twelve years after bilateral knee implants, this 69-year-old woman underwent revision of the left total knee arthroplasty.

Gross Pathology:

The 10.0 x 8.0 x 1.5 cm flat piece of soft tissue had a smooth gray-tan surface with firm light brown papillary projections on the inner aspect.

Contributor: Dennis Kasimian, M.D.
Van Nuys, CA

Case No. 6 - October, 2007 B

Tissue from: Right palm

Accession #30317

Clinical Abstract:

A 24-year-old, right hand dominant man presented with a progressively enlarging mass in the palm of the right hand.

Gross Pathology:

The 2.5 x 2.5 x 1.5 cm specimen consisted of an encapsulated ovoid soft tissue fragment with a gelatinous, friable gray cut surface.

Special Studies:

Positive: S-100 protein, Smooth muscle actin (focally)
Negative: Desmin

Contributor: **LLUMC Pathology (nhp)**
Loma Linda, CA

Case No. 7 - October, 2007 B

Tissue from: **Right upper arm**

Accession #30246

Clinical Abstract:

After noting a mass in the right upper arm, this 33-year-old man requested excision.

Gross Pathology:

The specimen consisted of a 57.3 gram, 7.0 x 3.2 cm pink-tan skin excision cut to a depth of 3.2 cm. Serial sectioning revealed a 4.2 cm, well-circumscribed, hemorrhagic subcutaneous mass.

Special Studies:

CD34 negative in lesional cells

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

Case No. 8 - October, 2007 B

Tissue from: **Left hip**

Accession #29017

Clinical Abstract:

A 21-year-old man sought treatment for a bulging mass in the left hip area with accompanying pain. CT scan showed a 15.0 cm mass, as well as multiple nodules in bilateral lungs. A needle biopsy was performed, and the patient was started on chemotherapy. A radical resection was performed one year after therapy.

Gross Pathology:

The specimen consisted of a left hip resection specimen, including femoral head and pelvic bone. Within the specimen was a 10.5 cm mass invading soft tissues, hip and pelvic bones.

Special Studies:

Positive: CD99

Contributor: Peter Morris, M.D.
Santa Barbara, CA

Case No. 9 - October, 2007 B

Tissue from: Bilateral ovaries

Accession #30268

Clinical Abstract:

An 18-year-old nulliparous woman presented with increasing abdominal girth and lower abdominal pain with radiation to the back. Her last Pap smear and pelvic exam one month previously were reported as normal. Ultrasound and CT scan confirmed the presence of a pelvic mass felt to be separate from the uterus.

Gross Pathology:

The 359 gram, 12.1 x 9.0 x 7.0 cm right ovary was replaced by a firm, relatively homogeneous, light tan solid neoplasm with 1-2 mm cystic areas. The 618 gram, 11.5 x 12.0 x 8.5 cm nodular left ovary had a smooth surface and was replaced by a firm, light tan solid neoplasm with an irregular central pink to gray area.

Special Studies:

Positive: Keratin, CAM 5.2, EMA, Vimentin, Desmin.

Negative: CD45, S-100 protein, Synaptophysin, Keratin 5/6, Keratin 7, Keratin 20, CEA, Inhibin, CD99, PLAP, HCG, AFP.

Contributor: Mark Carter, M.D.
Lackland AFB, TX

Case No. 10 - October, 2007 B

Tissue from: Left thoracic mass

Accession #30230

Clinical Abstract:

A 25-year-old man underwent an excision of an intrathoracic/mediastinal mass.

Gross Pathology:

The mass measured greater than 15.0 cm in diameter.

Special Studies:

Positive: Desmin, Muscle specific actin, and Myo-D1.

Negative: S-100 protein, GFAP, CD31, CD34, Kermix, EMA, LCA, Synaptophysin, NSE, CD99, Smooth muscle actin.