



CALIFORNIA  
TUMOR TISSUE REGISTRY

*SOFT TISSUE PATHOLOGY*

Minutes – Subscription B

October 2010



**SUGGESTED READING (General Topics from Recent Literature):**

Predictors of Phyllodes Tumours on Core Biopsy Specimens of Fibroepithelial Neoplasms. Jara-Lazaro AR, Akhilesh M, et al. *Histopath* 2010; 57:220-232.

Chromosome 9p Deletions Identify an Aggressive Pheotype of Clear Cell Renal Cell Carcinoma. La Rochelle J, Klatte TE, et al. *Cancer* 2010; Jul 13.

Molecular Testing for Lipomatous Tumors: Critical Analysis and Test Recommendations Based on the Analysis of 405 Extremity-Based Tumors. Zhang H, Erickson-Johnson M, et al. *Am J Surg Pathol* 2010; 34: 1304-1311.

Molecular Genotyping of Papillary Thyroid Carcinoma Follicular Variant According to Its Histological Subtypes (Encapsulated vs. Infiltrative) Reveals Distinct BRAF and RAS Mutation Patterns. Owens SR, Wiehagen LT, et al. *Mod Pathol* 2010 23:1191-1200.

California Tumor Tissue Registry  
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## **FILE DIAGNOSES**

**CTTR Subscription B**

**October 2010**

**Case 1:**

Mesenteric fibromatosis (desmoid tumor)  
T-64200, M-76100

**Case 2:**

Gastrointestinal stromal tumor (GIST), omentum  
T-63850, M-88903

**Case 3:**

Atypical lipomatous tumor (“atypical lipoma”), back  
T-Y1150, M-88500

**Case 4:**

Myxoid spindle cell lipoma, back of neck  
T-Y0600, M-88570

**Case 5:**

Calcifying monophasic synovial sarcoma, chest wall  
T-Y2150, M-90403

**Case 6:**

Primary leiomyosarcoma, lung  
T-28000, M-88903

**Case 7:**

Embryonal rhabdomyosarcoma, abdomen (recurrent from bladder)  
T-Y4100, M-89103

**Case 8:**

Epithelioid sarcoma, so called “proximal type”, lower extremity  
T-Y9010, M-88043

**Case 9:**

Fibromatosis, arm  
T-Y8000, M-76100

**Case 10:**

Mesothelioma, omentum  
T-63850, M-90503

Carlsbad (Genoptix Medical Laboratory) - Mesenteric fibromatosis  
Glendale - Mesenteric fibromatosis  
Loma Linda - Fibroma  
Newport Beach (College Hospital) - Fibroma  
San Diego (Naval Medical Center) - Desmoid tumor  
Florida (Munroe Regional Medical Center) - Fibroblastoma  
Florida (Naples Pathology Associates) - Intra-abdominal fibromatosis  
Georgia, Atlanta - Fibromatosis  
Illinois (Heartland Regional Medical Center) - Fibromatosis  
Kansas (Coffeyville Regional Medical Center) - Mesenteric fibromatosis  
Kansas (Peterson Laboratory Services) - Fibromatosis  
Massachusetts (BWH-Pathology) - Intra-abdominal fibromatosis  
Michigan (Pinkus Dermatopathology Laboratory) - Mesenteric fibromatosis  
New York (SUNY Stony Brook) - Mesenteric fibromatosis (2)  
Ohio (Cleveland Clinic Pathology Residents) - Mesenteric fibromatosis  
Ohio, Columbus - Desmoid fibromatosis  
Ohio (The Ohio State University) - Intra-abdominal desmoids-type fibromatosis  
Ohio (University of Toledo Medical Center) - Mesenteric fibromatosis  
Pennsylvania (Conemaugh Memorial Medical Center) - Mesenteric fibromatosis  
Pennsylvania (Drexel University College of Medicine) - Desmoid tumor  
Puerto Rico (University of Puerto Rico) - Peritoneal fibromatosis  
Tennessee, Knoxville - Fibromatosis  
Texas, Crystal Beach - Solitary fibrous tumor  
Texas, Lubbock - Desmoid tumor  
Texas (Scott & White Memorial Hospital) - Intra-abdominal fibromatosis  
Wisconsin, Madison - Fibromatosis  
Canada (Pasqua Hospital) - Fibromatosis  
Ireland (University College Hospital) - Mesenteric fibromatosis  
Japan (Shizuoka Tokushu-kai Hospital) - Mesenteric fibromatosis  
Japan, Tokyo - Mesenteric fibromatosis  
Japan (University of Yamanashi) - Desmoid tumor  
Saudi Arabia (King Khalid University Hospital) - Mesenteric fibromatosis  
Spain (Povisa Medical Center) - Mesenteric fibromatosis  
United Kingdom (Chesterfield Royal Hospital) - Fibromatosis  
United Kingdom (John Radcliffe Hospital) - Intra-abdominal desmoids tumor

**Case 1 - Diagnosis:**

Mesenteric fibromatosis (desmoid tumor)  
T-64200, M-76100

Outside Consultation: Gary L. Keeney, M.D., Mayo Clinic, Rochester, MN, "Mesenteric fibromatosis (desmoid tumor)."

**Case 1 - References:**

Risk factors for development of desmoid tumours in familial adenomatous polyposis. Lefevre JH, Parc Y, Kerneis S, et al. *Br J Surg* 2008; 95(9):1136-1139.

Low-grade fibromyxoid sarcoma versus fibromatosis. A comparative study of clinicopathological and immunohistochemical features. Meng GZ, Zhang HY, Bu H, et al. *Diagn Cytopathol* 2009; 37(2):96-102.

Truncal sarcomas and abdominal desmoids. Garonzik Wang JM and Leach SD. *Surg Clin North Am* 2008; 88(3):571-582.

Control of aggressive fibromatosis by treatment with imatinib mesylate. A case report and review of the literature. Wcislo G, Szarlej-Wcislo K and Szczylik C. *J Cancer Res Clin Oncol* 2007; 133(8):533-538.

Carlsbad (Genoptix Medical Laboratory) - GIST  
Glendale - GIST  
Loma Linda - Fibroblastoma (fibroma)  
Newport Beach (College Hospital) - GIST  
Florida (Munroe Regional Medical Center) - GIST tumor  
Florida (Naples Pathology Associates) - Gastrointestinal stromal tumor  
Georgia, Atlanta - Malignant gastrointestinal stromal tumor  
Illinois (Heartland Regional Medical Center) - GIST (high risk)  
Kansas (Coffeyville Regional Medical Center) - Gastrointestinal stromal tumor (GIST)  
Kansas (Peterson Laboratory Services) - GIST, low mitotic rate  
Massachusetts (BWH-Pathology) - GIST  
Michigan (Pinkus Dermatopathology Laboratory) - Gastrointestinal stromal tumor  
New York (SUNY Stony Brook) - Gastrointestinal stromal tumor (2)  
Ohio (Cleveland Clinic Pathology Residents) - Epithelioid GIST  
Ohio, Columbus - Gastrointestinal stromal tumor (GIST)  
Ohio (The Ohio State University) - Gastrointestinal stromal tumor  
Ohio (University of Toledo Medical Center) - GIST, omentum  
Pennsylvania (Conemaugh Memorial Medical Center) - GIST  
Pennsylvania (Drexel University College of Medicine) - GIST  
Puerto Rico (University of Puerto Rico) - Gastrointestinal stromal tumor  
Tennessee, Knoxville - Gastrointestinal stromal tumor, possible concomitant small lymphocytic lymphoma  
Texas, Crystal Beach - Gastrointestinal stromal tumor  
Texas, Lubbock - Malignant GIST  
Texas (Scott & White Memorial Hospital) - GIST  
Wisconsin, Madison - Gastrointestinal stromal tumor  
Canada (Pasqua Hospital) - GIST  
Ireland (University College Hospital) - Gastrointestinal stromal tumor  
Japan (Shizuoka Tokushu-kai Hospital) - GIST  
Japan, Tokyo - Solitary fibrous tumor  
Japan (University of Yamanashi) - Gastrointestinal stromal tumor  
Saudi Arabia (King Khalid University Hospital) - Gastrointestinal stromal tumor (GIST)  
Spain (Povisa Medical Center) - Extra gastrointestinal GIST  
United Kingdom (Chesterfield Royal Hospital) - GIST  
United Kingdom (John Radcliffe Hospital) - GIST

Outside Consultation: Michael Hendrickson, M.D., Stanford University Medical Center, Stanford, CA,  
“Gastrointestinal stromal tumor.”

**Case 2 - Diagnosis:**

Gastrointestinal stromal tumor (GIST), omentum  
T-63850, M-88903

**Case 2 - References:**

Gastrointestinal stromal tumors presenting as omental masses -- a clinicopathologic analysis of 95 cases. Miettinen M, Sobin LH and Lasota J. *Am J Surg Pathol* 2009; 33(9):1267-1275.

Primary extragastrointestinal stromal tumors in the omentum and mesentery. A clinicopathological and immunohistochemical study. Llenas-Garcia j, Guerra-Vales JM, et al. *Hepatogastro* 2008; 55(84):1002-1005.

Clinicopathologic study of 275 cases of gastrointestinal stromal tumors. The experience at 3 large medical centers in Mexico. Alvarado-Cabrero I, Vazquez G, et al. *Ann Diagn Pathol* 2007; 11(1):39-45.

Gastrointestinal stromal tumors. Review on morphology, molecular pathology, prognosis, and differential diagnosis. Miettinen M and Lasota J. *Arch Pathol Lab Med* 2006; 130(10): 1466-1478.

Carlsbad (Genoptix Medical Laboratory) - Angiolipoma  
Glendale - Pleomorphic lipoma  
Loma Linda - Fibrolipoma  
Newport Beach (College Hospital) - Fibrolipoma  
San Diego (Naval Medical Center) - Spindle cell lipoma  
Florida (Munroe Regional Medical Center) - Elastofibroma and lipoma  
Florida (Naples Pathology Associates) - Fibrolipoma  
Georgia, Atlanta - Atypical lipomatous tumor/well-differentiated liposarcoma  
Illinois (Heartland Regional Medical Center) - Atypical lipomatous tumor  
Kansas (Coffeyville Regional Medical Center) - Lipoma and fat necrosis  
Kansas (Peterson Laboratory Services) - Well-differentiated liposarcoma  
Massachusetts (BWH-Pathology) - Fibrolipoma  
Michigan (Pinkus Dermatopathology Laboratory) - Atypical lipomatous tumor/well-differentiated liposarcoma  
New York (SUNY Stony Brook) - Fibrolipoma (1); Atypical lipomatous tumor (1)  
Ohio (Cleveland Clinic Pathology Residents) - Fibrolipoma  
Ohio, Columbus - Lipoma  
Ohio (The Ohio State University) - Lipoma  
Ohio (University of Toledo Medical Center) - Spindle cell lipoma, back  
Pennsylvania (Conemaugh Memorial Medical Center) - Fibrolipoma  
Pennsylvania (Drexel University College of Medicine) - Well-differentiated liposarcoma  
Puerto Rico (University of Puerto Rico) - Atypical lipomatous tumor/myolipoma  
Tennessee, Knoxville - Pleomorphic lipoma  
Texas, Crystal Beach - Pleomorphic lipoma  
Texas, Lubbock - Lipoma  
Texas (Scott & White Memorial Hospital) - Atypical lipomatous tumor  
Wisconsin, Madison - Fibrolipoma  
Canada (Pasqua Hospital) - Well-differentiated liposarcoma  
Ireland (University College Hospital) - Atypical lipomatous tumor  
Japan (Shizuoka Tokushu-kai Hospital) - Spindle cell lipoma  
Japan, Tokyo - Lipoma  
Japan (University of Yamanashi) - Well-differentiated liposarcoma  
Saudi Arabia (King Khalid University Hospital) - Atypical lipomatous tumor  
Spain (Povisa Medical Center) - Atypical lipomatous tumor/well-differentiated liposarcoma  
United Kingdom (Chesterfield Royal Hospital) - Spindle cell lipoma  
United Kingdom (John Radcliffe Hospital) - Spindle cell/pleomorphic lipoma

**Case 3 - Diagnosis:**

Atypical lipomatous tumor ("atypical lipoma"), back  
T-Y1150, M-88500

**Director's Note:** A negative CD34 helped in exclusion of spindle cell lipoma. (drc)

**Case 3 - References:**

Value of cytological imprints in the diagnosis of atypical lipomatous tumor. Fernandez-Flores a and Juanes F. *Diagn Cytopathol* 2005; 32(1):51-52.

Retroperitoneal lipomatous tumors without cytologic atypia. Are they lipomas? A clinicopathologic and molecular study of 19 cases. Macarenco RS, Erickson-Johnson M, Wang X, et al. *Am J Surg Pathol* 2009; 33(10):1470-1476.

Atypical lipomatous tumor, its variants, and its combined forms. A study of 61 cases, with a minimum follow-up of 10 years. Evans HL. *Am J Surg Pathol* 2007; 31(1):1-14.

Deep-seated, well-differentiated lipomatous tumors of the chest wall and extremities. The role of cytogenetics in classification and prognostication. Bassett MD, Schuetze SM, et al. *Cancer* 2005; 103(2):409-416.

Deep-seated ordinary and atypical lipomas. Histopathology, cytogenetics, clinical features, and outcome in 215 tumours of the extremity and trunk wall. Billing V, Mertens F, et al. *J Bone Joint Surg Br* 2008; 90(7):929-933.

**Case No. 4, Accession No. 31016**

**October 2010**

Carlsbad (Genoptix Medical Laboratory) - Spindle cell lipoma  
Glendale - Spindle cell lipoma  
Loma Linda - Myxofibroma  
Newport Beach (College Hospital) - Elastofibroma  
San Diego (Naval Medical Center) - Spindle cell lipoma  
Florida (Munroe Regional Medical Center) - Angiomyxoma  
Florida (Naples Pathology Associates) - Angiomyxoma  
Georgia, Atlanta - Spindle cell lipoma, myxoid variant  
Illinois (Heartland Regional Medical Center) - Spindle cell lipoma with myxoid change  
Kansas (Coffeyville Regional Medical Center) - Angiomyxoma, superficial  
Kansas (Peterson Laboratory Services) - Spindle cell lipoma  
Massachusetts (BWH-Pathology) - Spindle cell lipoma  
Michigan (Pinkus Dermatopathology Laboratory) - Spindle cell lipoma with myxoid change  
New York (SUNY Stony Brook) - Solitary fibrous tumor (1); Spindle cell lipoma (1)  
Ohio (Cleveland Clinic Pathology Residents) - Spindle cell lipoma  
Ohio, Columbus - Elastofibroma  
Ohio (The Ohio State University) - Cellular angiofibroma  
Ohio (University of Toledo Medical Center) - Elastofibroma, neck  
Pennsylvania (Conemaugh Memorial Medical Center) - Spindle cell lipoma  
Pennsylvania (Drexel University College of Medicine) - Cutaneous angiomyxoma  
Puerto Rico (University of Puerto Rico) - Spindle cell lipoma/intramuscular myxoma  
Tennessee, Knoxville - Myxoma  
Texas, Crystal Beach - Angiofibroma  
Texas, Lubbock - Spindle cell lipoma  
Texas (Scott & White Memorial Hospital) - Spindle cell lipoma  
Wisconsin, Madison - Spindle cell lipoma  
Canada (Pasqua Hospital) - Spindle cell lipoma  
Ireland (University College Hospital) - Spindle cell lipoma  
Japan (Shizuoka Tokushu-kai Hospital) - Myxoma  
Japan, Tokyo - Myxoma  
Japan (University of Yamanashi) - Elastofibroma  
Saudi Arabia (King Khalid University Hospital) - Spindle cell lipoma  
Spain (Povisa Medical Center) - Superficial angiomyxoma  
United Kingdom (Chesterfield Royal Hospital) - Spindle cell lipoma with myxoid change  
United Kingdom (John Radcliffe Hospital) - Low grade myxofibrosarcoma

**Case 4 - Diagnosis:**

Myxoid spindle cell lipoma, back of neck  
T-Y0600, M-88570

**Case 4 - References:**

Diagnostically challenging spindle cell lipomas. A report of 34 “low fat” and “fat-free” variants. Billings SD and Folpe AL. *Am J Dermatopathol* 2007; 29(5):437-442.

Frequent detection of androgen receptors in spindle cell lipomas. An explanation for this lesion’s male predominance? Syed S, Martin AM, Haupt H, et al. *Arch Pathol Lab Med* 2008; 132(1):81-83.

Giant spindle cell lipoma of the posterior neck. Eryilmaz M, Yigit T, et al. *Dermatol Surg* 2007; 33(10):1258-1261.

Carlsbad (Genoptix Medical Laboratory) - Monophasic synovial sarcoma  
Glendale - Synovial sarcoma, monophasic  
Loma Linda - Fibrosarcoma consistent with calcification  
Newport Beach (College Hospital) - Dermatofibrosarcoma protuberans/schwannoma  
San Diego (Naval Medical Center) - Synovial sarcoma  
Florida (Munroe Regional Medical Center) - Melanoma  
Florida (Naples Pathology Associates) - Monophasic synovial sarcoma  
Georgia, Atlanta - Synovial sarcoma  
Illinois (Heartland Regional Medical Center) - Synovial sarcoma  
Kansas (Coffeyville Regional Medical Center) - Low grade fibrosarcoma  
Kansas (Peterson Laboratory Services) - Calcifying synovial sarcoma  
Massachusetts (BWH-Pathology) - Calcifying fibrous tumor of soft tissue  
Michigan (Pinkus Dermatopathology Laboratory) - Monophasic synovial sarcoma  
New York (SUNY Stony Brook) - Synovial sarcoma (1); Monophasic synovial sarcoma (1)  
Ohio (Cleveland Clinic Pathology Residents) - Synovial sarcoma, monophasic  
Ohio, Columbus - Calcifying aponeurotic fibroma  
Ohio (The Ohio State University) - Calcifying aponeurotic fibroma  
Ohio (University of Toledo Medical Center) - Pcoma, chest wall  
Pennsylvania (Conemaugh Memorial Medical Center) - Chondrosarcoma  
Puerto Rico (University of Puerto Rico) - Tumoral calcinosis/rule out psammomatous meningioma  
Tennessee, Knoxville - Synovial sarcoma  
Texas, Crystal Beach - Calcifying fibrous tumor  
Texas, Lubbock - Calcified aponeurotic fibroma  
Texas (Scott & White Memorial Hospital) - Calcifying aponeurotic fibroma  
Wisconsin, Madison - Synovial sarcoma  
Canada (Pasqua Hospital) - Synovial sarcoma  
Ireland (University College Hospital) - Psammomatous melanotic schwannoma with malignant transformation vs. metastatic melanoma  
Japan (Shizuoka Tokushu-kai Hospital) - Synovial sarcoma  
Japan, Tokyo - Calcifying aponeurotic fibroma  
Japan (University of Yamanashi) - Solitary fibrous tumor  
Saudi Arabia (King Khalid University Hospital) - Benign spindle cell neoplasm/somatic leiomyoma  
Spain (Povisa Medical Center) - Calcifying fibrous tumor/pseudotumor  
United Kingdom (Chesterfield Royal Hospital) - Synovial sarcoma  
United Kingdom (John Radcliffe Hospital) - Dedifferentiated chondrosarcoma

**Case 5 - Diagnosis:**

Calcifying monophasic synovial sarcoma, chest wall  
 T-Y2150, M-90403

Director's note: FISH showed translocation t(x,18)(p11,q11)(SYT/SSX) (drc)

**Case 5 - References:**

Synovial sarcoma. Retrospective analysis of 250 patients treated at a single institution. Palmerini E, Staals EL, et al. *Cancer* 2009; 115(13):2988-2998.

The classic prognostic factors tumor stage, tumor size, and tumor grade are the strongest predictors of outcome in synovial sarcoma. No role for SSX fusion type or ezrin expression. ten Heuvel SE, Hoekstra HJ, et al. *Appl Immunohistochem Mol Morphol* 2009; 17(3):189-195.

Sentinel node biopsy in synovial sarcoma. Tunn PU, Andreou D, et al. *Eur J Surg Oncol* 2008; 34(6):704-707.

Carlsbad (Genoptix Medical Laboratory) - Pulmonary leiomyosarcoma  
Glendale - Leiomyosarcoma  
Loma Linda - Leiomyosarcoma  
Newport Beach (College Hospital) - Leiomyoma  
San Diego (Naval Medical Center) - Leiomyosarcoma  
Florida (Munroe Regional Medical Center) - Spindle cell sarcoma  
Florida (Naples Pathology Associates) - Leiomyosarcoma  
Georgia, Atlanta - Leiomyosarcoma  
Illinois (Heartland Regional Medical Center) - Leiomyosarcoma  
Kansas (Coffeyville Regional Medical Center) - Low grade leiomyosarcoma  
Kansas (Peterson Laboratory Services) - Leiomyosarcoma  
Massachusetts (BWH-Pathology) - Leiomyosarcoma  
Michigan (Pinkus Dermatopathology Laboratory) - Leiomyosarcoma  
New York (SUNY Stony Brook) - Leiomyosarcoma (2)  
Ohio (Cleveland Clinic Pathology Residents) - Leiomyosarcoma  
Ohio, Columbus - Low-grade leiomyosarcoma  
Ohio (The Ohio State University) - Leiomyosarcoma  
Ohio (University of Toledo Medical Center) - Leiomyoma, bronchus  
Pennsylvania (Conemaugh Memorial Medical Center) - Leiomyosarcoma of great vessels  
Pennsylvania (Drexel University College of Medicine) - Leiomyosarcoma  
Puerto Rico (University of Puerto Rico) - Leiomyosarcoma  
Tennessee, Knoxville - Leiomyosarcoma  
Texas, Crystal Beach - Cartilagenous hamartoma  
Texas, Lubbock - Leiomyosarcoma  
Texas (Scott & White Memorial Hospital) - Solitary fibrous tumor  
Wisconsin, Madison - Leiomyosarcoma  
Canada (Pasqua Hospital) - Leiomyosarcoma  
Ireland (University College Hospital) - Leiomyosarcoma  
Japan (Shizuoka Tokushu-kai Hospital) - Leiomyosarcoma  
Japan, Tokyo - Leiomyoma  
Japan (University of Yamanashi) - Leiomyoma  
Saudi Arabia (King Khalid University Hospital) - Leiomyosarcoma  
Spain (Povisa Medical Center) - Intimal sarcoma  
United Kingdom (Chesterfield Royal Hospital) - Smooth muscle tumor of uncertain malignant potential (STUMP)  
United Kingdom (John Radcliffe Hospital) - Leiomyosarcoma

**Case 6 - Diagnosis:**

Primary leiomyosarcoma, lung  
T-28000, M-88903

**Case 6 - References:**

Pulmonary leiomyosarcoma presenting as a pancoast tumor. Shoji F, Yoshino I, et al. *Pathol Res Pract* 2007; 203(10):745-748.

Primary lung leiomyosarcoma detected by bronchoscopy cytology. Odashiro AN, Miiji LO, et al. *Diagn Cytopathol* 2005; 33(3):220-222.

Benign metastasizing leiomyoma of the lung. Clinicopathologic, immunohistochemical, and micro-RNA analyses. Nuovo GJ and Schmittgen TD. *Diagn Mol Pathol* 2008; 17(3):145-150.

Primary pulmonary leiomyosarcoma. Report of a case diagnosed by fine needle aspiration cytology. Yamaguchi T, Imamura Y, et al. *Acta Cytol* 2002; 46(5):912-916.

Epstein-Barr virus-associated pulmonary leiomyosarcoma arising twenty-nine years after renal transplantation. Ferri L, Fraser R, et al. *J Thorac Cardiovasc Surg* 2003; 126(3):877-879.



Carlsbad (Genoptix Medical Laboratory) - PECOMA  
Glendale - Embryonal rhabdomyosarcoma with anaplasia  
Loma Linda - Rhabdomyosarcoma  
Newport Beach (College Hospital) - Embryonal rhabdomyosarcoma  
San Diego (Naval Medical Center) - Rhabdomyosarcoma  
Florida (Munroe Regional Medical Center) - Rhabdomyosarcoma  
Florida (Naples Pathology Associates) - Rhabdomyosarcoma  
Georgia, Atlanta - Embryonal rhabdomyosarcoma  
Illinois (Heartland Regional Medical Center) - Rhabdomyosarcoma  
Kansas (Coffeyville Regional Medical Center) - Rhabdomyosarcoma  
Kansas (Peterson Laboratory Services) - Anaplastic rhabdomyosarcoma  
Massachusetts (BWH-Pathology) - Anaplastic embryonal rhabdomyosarcoma  
Michigan (Pinkus Dermatopathology Laboratory) - Rhabdomyosarcoma, pleomorphic type  
New York (SUNY Stony Brook) - Solid variant of alveolar rhabdomyosarcoma (1); Embryonal rhabdomyosarcoma (1)  
Ohio (Cleveland Clinic Pathology Residents) - Embryonic rhabdomyosarcoma with anaplasia  
Ohio, Columbus - Rhabdomyosarcoma, anaplastic variant  
Ohio (The Ohio State University) - Embryonal rhabdomyosarcoma  
Ohio (University of Toledo Medical Center) - Anaplastic embryonal rhabdomyosarcoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Rhabdomyosarcoma, pleomorphic type  
Pennsylvania (Drexel University College of Medicine) - Rhabdomyosarcoma  
Puerto Rico (University of Puerto Rico) - Embryonal rhabdomyosarcoma  
Tennessee, Knoxville - Pleomorphic rhabdomyosarcoma  
Texas, Crystal Beach - Rhabdomyosarcoma  
Texas, Lubbock - Rhabdomyosarcoma  
Texas (Scott & White Memorial Hospital) - Rhabdomyosarcoma  
Wisconsin, Madison - Rhabdomyosarcoma  
Canada (Pasqua Hospital) - Rhabdomyosarcoma  
Ireland (University College Hospital) - Embryonal rhabdomyosarcoma  
Japan (Shizuoka Tokushu-kai Hospital) - Embryonal rhabdomyosarcoma  
Japan, Tokyo - Angiomyofibroblastoma  
Japan (University of Yamanashi) - Rhabdomyosarcoma  
Saudi Arabia (King Khalid University Hospital) - Rhabdomyosarcoma  
Spain (Povisa Medical Center) - Rhabdomyosarcoma  
United Kingdom (Chesterfield Royal Hospital) - Dedifferentiated liposarcoma with rhabdomyoblastic differentiation  
United Kingdom (John Radcliffe Hospital) - Pleomorphic leiomyosarcoma

**Case 7 - Diagnosis:**

Embryonal rhabdomyosarcoma, abdomen (recurrent from bladder)  
 T-Y4100, M-89103

**Case 7 - References:**

Diagnosis of pediatric genitourinary embryonal rhabdomyosarcoma by urine cytology. A case report. Anderson L, Henwood A, et al. *Acta Cytol* 2007; 51(3):437-439.

Rhabdomyosarcoma of the urinary bladder and vagina. A clinicopathologic study with emphasis on recurrent disease. A report from the Kiel Pediatric Tumor Registry and the German CWS Study. Leuschner I, Harms D, et al. *Am J Surg Pathol* 2001; 25(7):856-864.

Pathologic quiz case. A 3-year-old girl with dysuria and urinary incontinence. Primary embryonal rhabdomyosarcoma of the urinary bladder. Parwani AV, Rosenthal DL, Epstein JI, et al. *Arch Pathol Lab Med* 2004; 128(3):357-358.

Rhabdomyosarcoma of the urinary bladder in adults. Predilection for alveolar morphology with anaplasia and significant morphologic overlap with small cell carcinoma. Paner GP, McKenney JK, Epstein JI, et al. *Am J Surg Pathol* 2008; 32(7):1022-1028.

Embryonal rhabdomyosarcoma in a young Maine coon cat. Miller AD, Steffey M, et al. *J Am Anim Hosp Assoc* 2009; 45(1):43-47.

**Case No. 8, Accession No. 31298**

**October 2010**

Carlsbad (Genoptix Medical Laboratory) - Epithelioid sarcoma  
Glendale - Epithelioid sarcoma, proximal type  
Loma Linda - Rhabdomyosarcoma  
Newport Beach (College Hospital) - Epithelioid fibrohistiocytic sarcoma  
San Diego (Naval Medical Center) - Epithelial sarcoma  
Florida (Munroe Regional Medical Center) - Rhabdoid tumor  
Florida (Naples Pathology Associates) - Rhabdoid tumor  
Georgia, Atlanta - Sarcomatoid carcinoma  
Illinois (Heartland Regional Medical Center) - Epithelioid sarcoma  
Kansas (Coffeyville Regional Medical Center) - Malignant granulosa cell tumor  
Kansas (Peterson Laboratory Services) - Malignant neoplasm with rhabdoid features  
Massachusetts (BWH-Pathology) - Poorly differentiated synovial sarcoma  
Michigan (Pinkus Dermatopathology Laboratory) - High grade synovial sarcoma  
New York (SUNY Stony Brook) - Renal cell carcinoma, metastatic (1); Metastatic adrenocortical carcinoma (1)  
Ohio (Cleveland Clinic Pathology Residents) - Epithelioid sarcoma  
Ohio, Columbus - Epithelioid sarcoma  
Ohio (The Ohio State University) - Epithelioid sarcoma  
Ohio (University of Toledo Medical Center) - Rhabdoid tumor, malignant  
Pennsylvania (Conemaugh Memorial Medical Center) - Epithelioid sarcoma  
Pennsylvania (Drexel University College of Medicine) - Rhabdomyosarcoma  
Puerto Rico (University of Puerto Rico) - Extrarenal rhabdoid tumor/epithelioid sarcoma  
Tennessee, Knoxville - Proximal type epithelioid sarcoma  
Texas, Crystal Beach - Carcinoma sarcomatoid probably metastatic  
Texas, Lubbock - Epithelioid sarcoma  
Texas (Scott & White Memorial Hospital) - High grade malignancy, metastatic ovary or adrenal  
Wisconsin, Madison - High grade neoplasm, favor malignant rhabdoid tumor  
Canada (Pasqua Hospital) - Rhabdoid tumor  
Ireland (University College Hospital) - Epithelioid sarcoma vs. angiosarcoma  
Japan (Shizuoka Tokushu-kai Hospital) - Metastatic carcinoma  
Japan, Tokyo - Epithelioid sarcoma  
Japan (University of Yamanashi) - Epithelioid sarcoma  
Saudi Arabia (King Khalid University Hospital) - High grade metastatic neoplasm, favor adrenal cortical carcinoma or sex cord tumor of ovarian origin  
Spain (Povisa Medical Center) - Epithelioid sarcoma  
United Kingdom (Chesterfield Royal Hospital) - Malignant extra-renal rhabdoid tumor  
United Kingdom (John Radcliffe Hospital) - Epithelioid sarcoma

**Case 8 - Diagnosis:**

Epithelioid sarcoma, so called “proximal type”, lower extremity  
T-Y9010, M-88043

**Case 8 - References:**

Keratin in epithelioid sarcoma. An immunohistochemical study. Chase DR, Enzinger FM, Weiss SW, et al. *Am J Surg Pathol* 1984; 8(6):435-441.

Epithelioid sarcoma. Diagnosis, prognostic indicators and treatment. Chase DR and Enzinger FM. *Am J Surg Pathol* 1985; 9(4):241-263.

Co-expression of keratin and vimentin in epithelioid sarcoma. Chase DR, Enzinger FM, Weiss SW, et al. *Am J Surg Pathol* 1985; 9(6):460-463.

Rhabdoid vs. epithelioid sarcoma. Is distinction possible? Chase DR. *Am J Surg Pathol* 1990; 14(8):792-794.

Do “rhabdoid features” impart a poorer prognosis to proximal-type epithelioid sarcomas? (Commentary) Chase DR. *Adv Anat Pathol* 1997; 4(5):293-299.

## **Case No. 9, Accession No. 22750**

**October 2010**

Carlsbad (Genoptix Medical Laboratory) - Nodular fasciitis  
Glendale - Desmoid tumor  
Loma Linda - Scar tissue  
Newport Beach (College Hospital) - Nodular fibromatosis  
San Diego (Naval Medical Center) - Fibromatosis  
Florida (Munroe Regional Medical Center) - Fibroma  
Florida (Naples Pathology Associates) - Extra-abdominal fibromatosis  
Georgia, Atlanta - Low grade fibromyxoid sarcoma  
Illinois (Heartland Regional Medical Center) - Fibromatosis  
Kansas (Coffeyville Regional Medical Center) - Fibroma of tendon sheath  
Kansas (Peterson Laboratory Services) - Fibromatosis  
Massachusetts (BWH-Pathology) - Extra-abdominal desmoids fibromatosis  
Michigan (Pinkus Dermatopathology Laboratory) - Fibromatosis  
New York (SUNY Stony Brook) - Fibromatosis (1); Hyalinized fibromatosis (1)  
Ohio (Cleveland Clinic Pathology Residents) - Fibromatosis  
Ohio, Columbus - Desmoid fibromatosis  
Ohio (The Ohio State University) - Extra-abdominal desmoid type fibromatosis  
Ohio (University of Toledo Medical Center) - Fibromatosis, desmoids-type  
Pennsylvania (Conemaugh Memorial Medical Center) - Extra-abdominal fibromatosis  
Pennsylvania (Drexel University College of Medicine) - Intramuscular fibromatosis  
Puerto Rico (University of Puerto Rico) - Fibromatosis  
Tennessee, Knoxville - Fibromatosis  
Texas, Crystal Beach - Fibromatosis  
Texas, Lubbock - Spindle cell lipoma  
Texas (Scott & White Memorial Hospital) - Extra-abdominal fibromatosis (desmoid)  
Wisconsin, Madison - Fibromatosis  
Canada (Pasqua Hospital) - Fibromatosis  
Ireland (University College Hospital) - Fibromatosis  
Japan (Shizuoka Tokushu-kai Hospital) - Nodular fasciitis  
Japan, Tokyo - Intramuscular fibromatosis  
Japan (University of Yamanashi) - Desmoid tumor  
Saudi Arabia (King Khalid University Hospital) - Fibromatosis  
Spain (Povisa Medical Center) - Nodular fasciitis  
United Kingdom (Chesterfield Royal Hospital) - Fibromatosis  
United Kingdom (John Radcliffe Hospital) - Nodular fasciitis

### **Case 9 - Diagnosis:**

Fibromatosis, arm  
T-Y8000, M-76100

### **Case 9 - References:**

Molecular cytogenetic analysis of chromosome aberrations in desmoid tumors. Mayer M, Kulig A, et al. *Pol J Pathol* 2007; 58(3):167-171.

Desmoid tumors and deep fibromatoses. Schlemmer M. *Hematol Oncol Clin North Am* 2005; 19(3):565-571.

Desmoid tumors. Experience of 32 cases and review of the literature. Kumar V, Khanna S, et al. *Indian J Cancer* 2009; 46(1):34-39

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See also references on Case #1

## **Case No. 10, Accession No. 22702**

**October 2010**

Carlsbad (Genoptix Medical Laboratory) - Peritoneal mesothelioma  
Glendale - Diffuse mesothelioma  
Loma Linda - Mesothelioma vs. metastatic carcinoma  
Newport Beach (College Hospital) - Mesothelioma  
San Diego (Naval Medical Center) - Diffuse type mesothelioma  
Florida (Munroe Regional Medical Center) - Mesothelioma  
Florida (Naples Pathology Associates) - Malignant mesothelioma  
Georgia, Atlanta - Mesothelioma  
Illinois (Heartland Regional Medical Center) - Mesothelioma  
Kansas (Coffeyville Regional Medical Center) - Mesothelioma  
Kansas (Peterson Laboratory Services) - Mesothelioma, epithelioid  
Massachusetts (BWH-Pathology) - Malignant mesothelioma, epithelioid type  
Michigan (Pinkus Dermatopathology Laboratory) - Primary peritoneal mesothelioma  
New York (SUNY Stony Brook) - Mesothelioma (2)  
Ohio (Cleveland Clinic Pathology Residents) - Malignant mesothelioma, epithelial  
Ohio, Columbus - Malignant mesothelioma  
Ohio (The Ohio State University) - Mesothelioma  
Ohio (University of Toledo Medical Center) - Malignant mesothelioma  
Pennsylvania (Conemaugh Memorial Medical Center) - Malignant mesothelioma  
Pennsylvania (Drexel University College of Medicine) - Mesothelioma  
Puerto Rico (University of Puerto Rico) - Mesothelioma  
Tennessee, Knoxville - Mesothelioma  
Texas, Crystal Beach - Mesothelioma  
Texas, Lubbock - Mesothelioma  
Texas (Scott & White Memorial Hospital) - Mesothelioma  
Wisconsin, Madison - Mesothelioma  
Canada (Pasqua Hospital) - Mesothelioma  
Ireland (University College Hospital) - Primary peritoneal malignant mesothelioma  
Japan (Shizuoka Tokushu-kai Hospital) - Malignant mesothelioma  
Japan, Tokyo - Mesothelioma  
Japan (University of Yamanashi) - Malignant mesothelioma  
Saudi Arabia (King Khalid University Hospital) - Mesothelioma  
Spain (Povisa Medical Center) - Mesothelioma  
United Kingdom (Chesterfield Royal Hospital) - Mesothelioma  
United Kingdom (John Radcliffe Hospital) - Malignant mesothelioma

### **Case 10 - Diagnosis:**

Mesothelioma, omentum  
T-63850, M-90503

### **Case 10 - References:**

Cytological diagnosis of a peritoneal well-differentiated papillary mesothelioma. Lacoste-Collin L, Basset-Leobon C, et al. *Cytopathol* 2009; 20(4):269-271.

Early cytological diagnosis of diffuse malignant mesothelioma of the peritoneum. A case report. Pomjanski N, Grote HJ, et al. *Diagn Cytopathol* 2008; 36(2):120-123.

Value of immunohistochemistry in distinguishing peritoneal mesothelioma from serous carcinoma of the ovary and peritoneum. A review and update. Ordonez NG. *Adv Anat Pathol* 2006; 13(1):16-25.

Value of estrogen and progesterone receptor immunostaining in distinguishing between peritoneal mesotheliomas and serous carcinomas. Ordonez NG. *Hum Pathol* 2005; 36(11):1163-1167.

Malignant mesothelioma of the greater omentum mimicking omental infarction. A case report. Shin MK, Lee OJ, et al. *World J Gastroenterol* 2009; 15(38):4856-4859.