

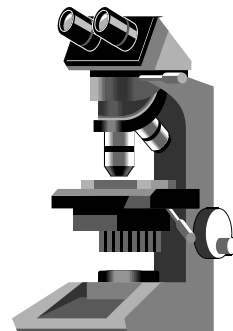


CALIFORNIA  
TUMOR TISSUE REGISTRY

*SOFT TISSUE PATHOLOGY*

Minutes – Subscription A

October, 2005



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

Pediatric Soft-Tissue Tumors. Aflatoon K, Aboulafia AJ, McCarthy EF, et al. *J of Am Acad Ortho Surg* 2003; 11(5):332-343.  
Necrotising Fasciitis. Clinical Review. Hasham S, Matteucci P, Stanley, PR, et al. *BMJ* 2005;(330):830-833.  
Stem Cells, Cloning, and Regulation. Guenin LM. *Mayo Clin Proc* 2005; 80(2):241-250.  
Accuracy of Revised Bethesda Guidelines, Microsatellite Instability, and Immunohistochemistry for the Identification of Patients with Hereditary Nonpolyposis Colorectal Cancer. *JAMA* 2005; 293(16):1986-1993.

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](http://www.cttr.org)

## **FILE DIAGNOSES**

**CTTR Subscription A**

**October, 2005**

**Case 1:**

Dermatofibrosarcoma protuberans, chest wall  
T-Y2100, M-88323

**Case 2:**

Tenosynovial giant cell tumor, foot  
T-Y9700, M-92511

**Case 3:**

Well-differentiated sclerosing liposarcoma, spermatic cord  
T-79310, M-88513

**Case 4:**

Myxoid liposarcoma, thigh  
T-Y1900, M-88523

**Case 5:**

Pleomorphic liposarcoma, axilla  
T-Y8100, M-88543

**Case 6:**

Cardiac rhabdomyoma  
T-3200, M-89000

**Case 7:**

Lipoleiomyoma, uterus  
T-82000, M-88900

**Case 8:**

Leiomyosarcoma, mesentery of sigmoid colon  
T-Y4600, M-88903

**Case 9:**

Extrasosseous chondrosarcoma with giant cells, leg  
T-Y9400, M-88003

**Case 10:**

Hemangioendothelioma, spleen  
T-07000, M-91301

**Case No. 1, Accession No. 29983**  
**October 2005**

Alameda (Alameda County Medical Center) - Dermatofibrosarcoma protuberans  
Baldwin Park (Kaiser Permanente) - Solitary fibrous tumor (3)  
Fontana (Kaiser Permanente) - Dermatofibrosarcoma protuberans  
Fresno (St. Agnes Medical Center) - Dermatofibrosarcoma protuberans  
Glendale - Dermatofibrosarcoma protuberans  
Hayward/Fremont (St. Rose Hospital) - Spindle cell lipoma  
Loma Linda (Loma Linda Pathology Residents) - Solitary fibrous tumor  
Long Beach - Dermatofibrosarcoma protuberance (11)  
Mountain View (El Camino Pathology Group) - Dermatofibrosarcoma protuberans  
Monterey Peninsula (Community Hospital of the Monterey Peninsula) - Solitary fibrous tumor vs. dermatofibrosarcoma protuberans  
Orange (Orange County Medical Group) - Dermatofibrosarcoma protuberans  
San Diego (Naval Medical Center) - Dermatofibrosarcoma protuberans (2)  
Santa Rosa (Santa Rosa Memorial Hospital) - Solid fibrous tumor (2); Dermatofibrosarcoma protuberans (1)  
Ventura - Dermatofibrosarcoma protuberans  
Arkansas (University of Arkansas Medical Center) - Dermatofibrosarcoma protuberans  
Arizona, Oro Valley - Dermatofibrosarcoma protuberans  
Colorado, Evergreen - Dermatofibrosarcoma protuberans  
Florida (Tallahassee Pathology Associates) - Solitary fibrous tumor  
Florida, Winter Haven - Myxoid liposarcoma  
Illinois, Burr Ridge - Dermatofibrosarcoma protuberans  
Illinois (Evanston Hospital) - Dermatofibrosarcoma protuberans  
Illinois (Loyola University Medical Center) - Dermatofibrosarcoma protuberans  
Illinois (Naval Hospital/Great Lakes) - Dermatofibrosarcoma protuberans  
Illinois (Northwestern Memorial Hospital) - Dermatofibrosarcoma protuberans  
Indiana (Ball Memorial Hospital) - Dermatofibrosarcoma protuberans  
Indiana (Howard Community Hospital) - Dermatofibrosarcoma protuberans  
Kentucky (University of Louisville Hospital) - Lipomatous hemangiopericytoma (extrapleural solitary fibrous tumor)  
Louisiana (Louisiana State University Medical Center) - Dermatofibrosarcoma protuberans  
Maryland (Northwestern Hospital Center) - Solitary fibrous tumor (2)  
Massachusetts (New England Medical Center) - Dermatofibrosarcoma protuberans  
Michigan, Ann Arbor - Dermatofibrosarcoma protuberans  
Michigan (Pathology Services of West Michigan) - Dermatofibrosarcoma protuberans  
Michigan (Oakwood Hospital) - Dermatofibrosarcoma protuberans  
New York (Long Island Jewish Medical Center) - Dermatofibrosarcoma protuberans  
New York (Nassau University Medical Center) - Solitary fibrous tumor  
New York (Stony Brook University Hospital Residents) - Dermatofibrosarcoma protuberans  
New York (Weill Medical College of Cornell University Residents) - Dermatofibrosarcoma protuberans  
New York (Westchester Medical Center) - Dermatofibrosarcoma protuberans  
North Carolina (Mountain Area Pathology) - Dermatofibrosarcoma  
Ohio (McCullough-Hyde Memorial Hospital) - Dermatofibrosarcoma protuberans  
Oklahoma, Oklahoma City - Schwannoma  
Pennsylvania (Allegheny General Hospital) - Dermatofibrosarcoma protuberans  
Pennsylvania (Conemaugh Memorial Medical Center) - Dermatofibrosarcoma protuberance  
Pennsylvania (Drexel University College of Medicine) - Dermatofibrosarcoma protuberans  
Pennsylvania (Mt Nittany Medical Center) - Dermatofibrosarcoma protuberans  
Pennsylvania (Pennsylvania Hospital Residents) - Dermatofibrosarcoma protuberans  
Puerto Rico (University of Puerto Rico) - Solitary fibrous tumor  
Texas, Lubbock - Dermatofibrosarcoma protuberans  
Texas (ProPath Services) - Hemangiopericytoma (2)  
Texas (University of Texas Medical Branch) - Dermatofibrosarcoma protuberans  
Texas (Wilford Hall Medical Center) - Dermatofibrosarcoma protuberans  
West Virginia (Greenbrier Valley Medical Center) - Nodular fasciitis  
West Virginia (Wetzel County Hospital) - Solitary fibrous tumor  
Wisconsin, Madison - Dermatofibrosarcoma protuberans  
Wisconsin (Marshfield Clinic) - Solitary fibrous tumor  
Wisconsin (Meriter Hospital) - Ganglioneuroma  
Australia (North Queensland Pathology) - Dermatofibrosarcoma protuberans  
Australia (Royal Prince Alfred Hospital) - Dermatofibrosarcoma protuberans  
Australia (Sullivan Nicolaides Pathology) - Dermatofibrosarcoma protuberans  
Brazil (Minas Gerais School of Medicine) - Deep dermatofibrosarcoma protuberans, fibrous histiocytoma with recurring potential

Japan (Kyoto University Hospital) - Dermatofibrosarcoma protuberans  
Netherlands, Amstelveen - Dermatofibrosarcoma protuberans  
New Zealand (Otago District Health Board) - Solitary fibrous tumor/hemangiopericytoma (1); Dermatofibrosarcoma protuberans (1)  
Qatar (Hamad Medical Corporation) - Dermatofibrosarcoma protuberans

#### **Case 1 - Diagnosis:**

Dermatofibrosarcoma protuberans, chest wall  
T-Y2100, M-88323

#### **Case 1 – References:**

Li N, McNiff J, Hui P, et al. Differential Expression of HMGA1 and HMGA2 in Dermatofibroma and Dermatofibrosarcoma Protuberans. Potential Diagnostic Applications, and Comparison with Histological Findings, CD34 and Factor XIIIa Immunoreactivity. *Am J Dermatopathol* 2004; 26(4):267-272.  
Bridge JA, Neff JR and Sandberg AA. Cytogenetic Analysis of Dermatofibrosarcoma Protuberans. *Cancer Genet and Cytogenet* 1990; 49(2):199-202.  
Frierson HF and Cooper PH. Myxoid Variant of Dermatofibrosarcoma Protuberans. *Am J Surg Pathol* 1983; 7(5):445-450.

### **Case No. 2, Accession No. 30095**

**October 2005**

Alameda (Alameda County Medical Center) - Giant cell tumor of tendon sheath  
Baldwin Park (Kaiser Permanente) - Giant cell tumor of tendon sheath (2); Tenosynovial giant cell tumor (1)  
Fontana (Kaiser Permanente) - Giant cell tumor  
Fresno (St. Agnes Medical Center) - Giant cell tumor of tendon sheath  
Glendale - Giant cell tumor of tendon sheath  
Hayward/Fremont (St. Rose Hospital) - Soft tissue giant cell tumor of low malignant potential  
Loma Linda (Loma Linda Pathology Residents) - Giant cell tumor of tendon sheath  
Long Beach - Pigmented nodular tenosynovitis (giant cell tumor of tendon sheath) (11)  
Mountain View (El Camino Pathology Group) - Giant cell tumor of tendon sheath diffuse type  
Monterey Peninsula (Community Hospital of the Monterey Peninsula) - Giant cell tumor  
Orange (Orange County Medical Group) - Tenosynovial giant cell tumor  
San Diego (Naval Medical Center) - Giant cell tumor of tendon sheath (2)  
Santa Rosa (Santa Rosa Memorial Hospital) - Giant cell tumor (2); Tenosynovial giant cell tumor, localized type (1)  
Ventura - Giant cell reparative granuloma  
Arkansas (University of Arkansas Medical Center) - Giant cell tumor of tendon sheath  
Arizona, Oro Valley - Giant cell tumor  
Colorado, Evergreen - Diffuse giant cell tumor  
Florida (Tallahassee Pathology Associates) - Giant cell tumor  
Florida, Winter Haven - Giant cell tumor  
Illinois, Burr Ridge - Giant cell tumor of soft parts  
Illinois (Evanston Hospital) - PVNS/diffuse tenosynovial giant cell tumor  
Illinois (Loyola University Medical Center) - Giant cell tumor of tendon sheath  
Illinois (Naval Hospital/Great Lakes) - Giant cell tumor of tendon sheath  
Illinois (Northwestern Memorial Hospital) - Giant cell tumor of tendon sheath  
Indiana (Ball Memorial Hospital) - Giant cell tumor  
Indiana (Howard Community Hospital) - Giant cell tumor bone  
Kentucky (University of Louisville Hospital) - Giant cell tumor, diffuse type  
Louisiana (Louisiana State University Medical Center) - Giant cell tumor  
Maryland (Northwestern Hospital Center) - Tenosynovial giant cell tumor (2)  
Massachusetts (New England Medical Center) - Giant cell tumor  
Michigan, Ann Arbor - Giant cell tumor of tendon sheath  
Michigan (Pathology Services of West Michigan) - Benign giant cell tumor of tendon sheath  
Michigan (Oakwood Hospital) - Giant cell tumor of tendon sheath  
Minnesota (Fairview Ridges Hospital) - Localized tenosynovial giant cell tumor  
New York (Long Island Jewish Medical Center) - Giant cell tumor  
New York (Nassau University Medical Center) - Giant cell tumor of tendon sheath  
New York (Stony Brook University Hospital Residents) - Pigmented nodular tenosynovitis  
New York (Weill Medical College of Cornell University Residents) - Giant cell tumor of tendon sheath  
New York (Westchester Medical Center) - Osteosarcoma

North Carolina (Mountain Area Pathology) - Giant cell tumor of tendon sheath  
Ohio (McCullough-Hyde Memorial Hospital) - Giant cell tumor of bone  
Oklahoma, Oklahoma City - Giant cell tumor  
Pennsylvania (Allegheny General Hospital) - Giant cell tumor of tendon sheath  
Pennsylvania (Conemaugh Memorial Medical Center) - Giant cell granuloma  
Pennsylvania (Drexel University College of Medicine) - Giant cell tumor of the tendon sheath  
Pennsylvania (Mt Nittany Medical Center) - Giant cell tumor of tendon sheath  
Pennsylvania (Pennsylvania Hospital Residents) - Giant cell tumor of soft parts  
Puerto Rico (University of Puerto Rico) - Tenosynovial giant cell tumor  
Texas, Lubbock - Giant cell tumor of tendon sheath  
Texas (ProPath Services) - Giant cell tumor of tendon sheath (1); Xanthogranuloma (giant cell tumor of tendon sheath) (1)  
Texas (University of Texas Medical Branch) - Giant cell tumor of tendon sheath  
Texas (Wilford Hall Medical Center) - Giant cell tumor of tendon sheath  
West Virginia (Greenbrier Valley Medical Center) - Tenosynovial giant cell tumor  
West Virginia (Wetzel County Hospital) - Tenosynovial giant cell tumor, localized type  
Wisconsin, Madison - Tenosynovial giant cell tumor  
Wisconsin (Marshfield Clinic) - Giant cell tumor of tendon sheath  
Wisconsin (Meriter Hospital) - Adenocarcinoma  
Australia (North Queensland Pathology) - Giant cell tumor of tendon sheath  
Australia (Royal Prince Alfred Hospital) - Tenosynovial giant cell tumor (localized)  
Australia (Sullivan Nicolaides Pathology) - Giant cell tumor of tendon sheath  
Brazil (Minas Gerais School of Medicine) - Tenosynovial giant cell tumor, localized type  
Japan (Kyoto University Hospital) - Giant cell tumor of the tendon sheath  
Netherlands, Amstelveen - Giant cell tumor of tendon sheath  
New Zealand (Otago District Health Board) - Giant cell tumor of tendon sheath (2)  
Qatar (Hamad Medical Corporation) - Giant cell tumor of tendon sheath

#### **Case 2 - Diagnosis:**

Tenosynovial giant cell tumor, foot  
 T-Y9700, M-92511

#### **Case 2 - References:**

Ferrer J, Namiq A, Carda C, et al. Diffuse Type of Giant Cell Tumor of Tendon Sheath. An Ultrastructural Study of Two Cases with Cytogenetic Support. *Ultrastruct Pathol* 2002; 26(1):15-21.  
 Bridge JA, Neff JR and Mouron BJ. Giant Cell Tumor of Bone. Chromosomal Analysis of 48 Specimens and Review of the Literature. *Cancer Genet and Cytogenet* 1992; 58(1):2-13.  
 Bridge JA, Neff JR, Bhatra PS, et al. Cytogenetic Findings and Biologic Behavior of Giant Cell Tumors of Bone. *Cancer* 1990; 65:2697-2703.  
 Goldenberg RR, Campbell CJ and Bonfiglio M. Giant Cell Tumor of Bone. An Analysis of Two Hundred and Eighteen Cases. *J Bone and Joint Surg* 1970; 52(4):619-664.

#### **Case No. 3, Accession No. 30015**

**October 2005**

Alameda (Alameda County Medical Center) - Well-differentiated liposarcoma  
Baldwin Park (Kaiser Permanente) - Sclerosing or myxoid liposarcoma (1); Myxoid malignant fibrous histiocytoma (1); Liposarcoma, myxoid (1)  
Fontana (Kaiser Permanente) - Well-differentiated sclerosing liposarcoma  
Fresno (St. Agnes Medical Center) - Aggressive angiomyxoma  
Glendale - Atypical lipoma/low-grade sclerosing liposarcoma  
Hayward/Fremont (St. Rose Hospital) - PHAT  
Loma Linda (Loma Linda Pathology Residents) - Inflammatory myofibroblastic tumor (pseudotumor)  
Long Beach - Sclerosing liposarcoma (11)  
Mountain View (El Camino Pathology Group) - Low grade sclerosing liposarcoma  
Monterey Peninsula (Community Hospital of the Monterey Peninsula) - Liposarcoma, well-differentiated  
Orange (Orange County Medical Group) - Atypical lipomatous tumor  
San Diego (Naval Medical Center) - Low grade myxoid malignant fibrous histiocytoma (myxoid fibrosarcoma) aggressive angiomyxoma (1); Aggressive angiomyxoma (1)  
Santa Rosa (Santa Rosa Memorial Hospital) - Atypical lipoma (2); Lipoma with extensive myxoid change (1)  
Ventura - Inflammatory pseudotumor

Arkansas (University of Arkansas Medical Center) - Atypical lipomatous tumor/well-differentiated liposarcoma  
Arizona, Oro Valley - Liposarcoma  
Colorado, Evergreen - Liposarcoma  
Florida (Tallahassee Pathology Associates) - Aggressive angiomyxoma  
Florida, Winter Haven - Angiomyofibroblastoma  
Illinois, Burr Ridge - Pleomorphic lipoma  
Illinois (Evanston Hospital) - Well-differentiated liposarcoma  
Illinois (Loyola University Medical Center) - Proliferative fasciitis  
Illinois (Naval Hospital/Great Lakes) - Well-differentiated liposarcoma  
Illinois (Northwestern Memorial Hospital) - Atypical lipoma with myxoid change  
Indiana (Ball Memorial Hospital) - Well-differentiated sclerosing liposarcoma  
Indiana (Howard Community Hospital) - Perineuroma  
Kentucky (University of Louisville Hospital) - Well-differentiated liposarcoma vs. pleomorphic lipoma  
Louisiana (Louisiana State University Medical Center) - Myxoid malignant fibrous histiocytoma (low grade)  
Maryland (Northwestern Hospital Center) - Myxofibrosarcoma (2)  
Massachusetts (New England Medical Center) - Atypical lipomatous tumor  
Michigan, Ann Arbor - Liposarcoma  
Michigan (Pathology Services of West Michigan) - Embryonal rhabdomyosarcoma  
Michigan (Oakwood Hospital) - Well-differentiated liposarcoma  
Minnesota (Fairview Ridges Hospital) - Well-differentiated liposarcoma  
New York (Long Island Jewish Medical Center) - Low-grade myxofibrosarcoma  
New York (Nassau University Medical Center) - Atypical lipomatous tumor  
New York (Stony Brook University Hospital Residents) - Pleomorphic liposarcoma  
New York (Weill Medical College of Cornell University Residents) - Well-differentiated liposarcoma/atypical lipoma  
New York (Westchester Medical Center) - Atypical lipomatous tumor vs. proliferative fasciitis  
North Carolina (Mountain Area Pathology) - Well-differentiated liposarcoma  
Ohio (McCullough-Hyde Memorial Hospital) - Atypical lipoma/well-differentiated liposarcoma  
Oklahoma, Oklahoma City - Malignant peripheral nerve sheath tumor  
Pennsylvania (Allegheny General Hospital) - Aggressive angiomyxoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Liposarcoma, myxoid  
Pennsylvania (Drexel University College of Medicine) - Myxoid liposarcoma  
Pennsylvania (Mt Nittany Medical Center) - Proliferative fasciitis  
Pennsylvania (Pennsylvania Hospital Residents) - Aggressive angiosarcoma  
Puerto Rico (University of Puerto Rico) - Myofibroblastic pseudotumor/pleomorphic lipoma  
Texas, Lubbock - Rhabdomyosarcoma  
Texas (ProPath Services) - Well-differentiated liposarcoma (2)  
Texas (University of Texas Medical Branch) - Male angiomyofibroblastoma-like tumor (cellular angiofibroma)  
Texas (Wilford Hall Medical Center) - Well-differentiated liposarcoma  
West Virginia (Greenbrier Valley Medical Center) - Atypical lipomatous tumor  
West Virginia (Wetzel County Hospital) - Angiomyxoma  
Wisconsin, Madison - Atypical lipomatous tumor (well-differentiated liposarcoma)  
Wisconsin (Marshfield Clinic) - Liposarcoma  
Wisconsin (Meriter Hospital) - Hepatoblastoma  
Australia (North Queensland Pathology) - Proliferative funiculitis or inflammatory pseudo tumor  
Australia (Royal Prince Alfred Hospital) - Well-differentiated liposarcoma, sclerosing  
Australia (Sullivan Nicolaides Pathology) - Well-differentiated liposarcoma (atypical lipomatous tumor)  
Brazil (Minas Gerais School of Medicine) - Well-differentiated liposarcoma, sclerosing type  
Japan (Kyoto University Hospital) - Pleomorphic hyalinizing angioectatic tumor of soft part  
Netherlands, Amstelveen - Ancient schwannoma  
New Zealand (Otago District Health Board) - Pleomorphic spindle/myxoid lesion (1); Myxofibrosarcoma (myxoid malignant fibrous histiocytoma)  
Qatar (Hamad Medical Corporation) - Pleomorphic lipoma

### **Case 3 - Diagnosis:**

Well-differentiated sclerosing liposarcoma, spermatic cord  
 T-79310, M-88513

### **Case 3 - References:**

Sreekantaiah, C, Karakousis CP, Leong SP, et al. Cytogenetic Findings in Liposarcoma Correlate with Histiologic Subtypes. *Cancer* 1992; 69(10):2484-2495.  
 Weiss SW and Rao VK. Well-Differentiated Liposarcoma (Atypical Lipoma) of Deep Soft Tissue of the Extremities, Retroperitoneum, and Miscellaneous Sites. A Followup Study of 92 Cases with Analysis of the Incidence of "Dedifferentiation."

**Case No. 4, Accession No. 29228**

**October 2005**

Alameda (Alameda County Medical Center) - Myxoid liposarcoma  
Baldwin Park (Kaiser Permanente) - Myxoid liposarcoma (2); Liposarcoma (pulmonary edema pattern, myxoid) (1)  
Fontana (Kaiser Permanente) - Myxoid liposarcoma  
Fresno (St. Agnes Medical Center) - Myxoid liposarcoma  
Glendale - Myxoid liposarcoma  
Hayward/Fremont (St. Rose Hospital) - Myxoid liposarcoma  
Loma Linda (Loma Linda Pathology Residents) - Lymphangioma  
Long Beach - Myxoid liposarcoma (11)  
Mountain View (El Camino Pathology Group) - Myxoid liposarcoma  
Monterey Peninsula (Community Hospital of the Monterey Peninsula) - Liposarcoma, myxoid  
Orange (Orange County Medical Group) - Lymphangioma  
San Diego (Naval Medical Center) - Myxoid liposarcoma (2)  
Santa Rosa (Santa Rosa Memorial Hospital) - Malignant myxoid tumor, rule out epithelioid sarcoma (1); Malignant myxoid tumor, NOS (1); Intramuscular myxoma (1)  
Ventura - Intramuscular angioma  
Arkansas (University of Arkansas Medical Center) - Myxoid liposarcoma  
Arizona, Oro Valley - Myxoid liposarcoma, round cell type  
Colorado, Evergreen - Extraskeletal myxoid chondrosarcoma  
Florida (Tallahassee Pathology Associates) - Myxoid liposarcoma  
Florida, Winter Haven - Lymphangioma  
Illinois, Burr Ridge - Myxoid liposarcoma  
Illinois (Evanston Hospital) - Myxoid liposarcoma  
Illinois (Loyola University Medical Center) - Myxoid liposarcoma  
Illinois (Naval Hospital/Great Lakes) - Myxoid liposarcoma  
Illinois (Northwestern Memorial Hospital) - Myxoid liposarcoma  
Indiana (Ball Memorial Hospital) - Extraskeletal myxoid chondrosarcoma  
Indiana (Howard Community Hospital) - Myxoid liposarcoma  
Kentucky (University of Louisville Hospital) - Myxoid liposarcoma  
Louisiana (Louisiana State University Medical Center) - Myxoid liposarcoma (lymphangioma-like)  
Maryland (Northwestern Hospital Center) - Myxoid liposarcoma (2)  
Massachusetts (New England Medical Center) - Myxoid liposarcoma  
Michigan, Ann Arbor - Myxoid liposarcoma  
Michigan (Pathology Services of West Michigan) - Intramuscular lipoma  
Michigan (Oakwood Hospital) - Myxoid liposarcoma  
Minnesota (Fairview Ridges Hospital) - Myxoid liposarcoma  
New York (Long Island Jewish Medical Center) - Myxoid liposarcoma  
New York (Nassau University Medical Center) - Lymphangioma  
New York (Stony Brook University Hospital Residents) - Myxoid liposarcoma  
New York (Weill Medical College of Cornell University Residents) - Myxoid liposarcoma  
New York (Westchester Medical Center) - Myxoid liposarcoma  
North Carolina (Mountain Area Pathology) - Myxoid liposarcoma  
Ohio (McCullough-Hyde Memorial Hospital) - Myxoid liposarcoma  
Oklahoma, Oklahoma City - Myxoid liposarcoma  
Pennsylvania (Allegheny General Hospital) - Myxoid liposarcoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Lymphangioma  
Pennsylvania (Drexel University College of Medicine) - Lymphangioendothelioma  
Pennsylvania (Mt Nittany Medical Center) - Lymphangioma  
Pennsylvania (Pennsylvania Hospital Residents) - Myxoid liposarcoma  
Puerto Rico (University of Puerto Rico) - Myxoid liposarcoma  
Texas, Lubbock - Myxoid liposarcoma  
Texas (ProPath Services) - Chordoid sarcoma (2)  
Texas (University of Texas Medical Branch) - Myxoid liposarcoma  
Texas (Wilford Hall Medical Center) - Myxoid liposarcoma  
West Virginia (Greenbrier Valley Medical Center) - Myxoid liposarcoma  
West Virginia (Wetzel County Hospital) - Intramuscular myxoma  
Wisconsin, Madison - Myxoid liposarcoma  
Wisconsin (Marshfield Clinic) - Myxoid liposarcoma  
Wisconsin (Meriter Hospital) - Hepatic adenoma  
Australia (North Queensland Pathology) - Lymphangioma

Australia (Royal Prince Alfred Hospital) - Myxoid liposarcoma  
Australia (Sullivan Nicolaides Pathology) - Myxoid liposarcoma  
Brazil (Minas Gerais School of Medicine) - Myxoid liposarcoma  
Japan (Kyoto University Hospital) - Myxoid liposarcoma  
Netherlands, Amstelveen - Myxoid liposarcoma  
New Zealand (Otago District Health Board) - Myxoid liposarcoma (2)  
Qatar (Hamad Medical Corporation) - Myxoid liposarcoma

#### **Case 4 - Diagnosis:**

Myxoid liposarcoma, thigh  
T-Y1900, M-88523

#### **Case 4 - References:**

Tallini G, Akerman M, Dal Cin P, et al. Combined Morphologic and Karyotypic Study of 28 Myxoid Liposarcomas. Implications for a Revised Morphologic Typing. (A Report from the CHAMP Group). *Am J Surg Pathol* 1996; 20(9):1047-1055.  
Paulien S, Turc-Carel C, Dal Cin P, et al. Myxoid Liposarcoma with t (12-16) (q13; p11) Contains Site-Specific Differences in Methylation Patterns Surrounding a Zinc-Finger Gene Mapped to the Breakpoint Region on Chromosome 12. *Cancer* 1990; 50(24):7902-7907.

### **Case No. 5, Accession No. 29777**

**October 2005**

Alameda (Alameda County Medical Center) - Undifferentiated pleomorphic sarcoma (MFH)  
Baldwin Park (Kaiser Permanente) - Metastatic metaplastic carcinoma (2); High grade metaplastic carcinoma of breast (1)  
Fontana (Kaiser Permanente) - Malignant fibrous histiocytoma vs. metaplastic carcinoma  
Fresno (St. Agnes Medical Center) - Malignant fibrous histiocytoma  
Glendale - Pleomorphic malignant fibrous histiocytoma  
Hayward/Fremont (St. Rose Hospital) - Malignant fibrous histiocytoma  
Loma Linda (Loma Linda Pathology Residents) - High grade sarcoma, favor lymphangiosarcoma  
Long Beach - High grade sarcoma (11)  
Mountain View (El Camino Pathology Group) - Malignant fibrous histiocytoma, pleomorphic type  
Monterey Peninsula (Community Hospital of the Monterey Peninsula) - Malignant fibrous histiocytoma vs. sarcomatoid carcinoma  
Orange (Orange County Medical Group) - Poorly differentiated malignant neoplasm  
San Diego (Naval Medical Center) - Pleomorphic malignant fibrous histiocytoma (1); High grade sarcoma (pleomorphic-storiform malignant fibrous histiocytoma (1)  
Santa Rosa (Santa Rosa Memorial Hospital) - Pleomorphic malignant fibrous histiocytoma (1); Malignant fibrous histiocytoma (1); Consistent with malignant fibrous histiocytoma, but must exclude pleomorphic carcinoma (1)  
Ventura - Malignant fibrous histiocytoma  
Arkansas (University of Arkansas Medical Center) - Pleomorphic high-grade sarcoma (MFH)  
Arizona, Oro Valley - Malignant fibrous histiocytoma  
Colorado, Evergreen - Malignant fibrous histiocytoma  
Florida (Tallahassee Pathology Associates) - Malignant fibrous histiocytoma  
Florida, Winter Haven - Giant cell sarcoma  
Illinois, Burr Ridge - Metastatic metaplastic breast carcinoma with osteoclast-like cell  
Illinois (Evanston Hospital) - Malignant fibrous histiocytoma, pleomorphic  
Illinois (Loyola University Medical Center) - Pleomorphic malignant fibrous histiocytoma  
Illinois (Naval Hospital/Great Lakes) - Malignant fibrous histiocytoma  
Illinois (Northwestern Memorial Hospital) - Pleomorphic sarcoma (pleomorphic leiomyosarcoma)  
Indiana (Ball Memorial Hospital) - Malignant fibrous histiocytoma  
Indiana (Howard Community Hospital) - Sarcoma, NOS  
Kentucky (University of Louisville Hospital) - Pleomorphic malignant fibrous histiocytoma  
Louisiana (Louisiana State University Medical Center) - Pleomorphic malignant fibrous histiocytoma  
Maryland (Northwestern Hospital Center) - Undifferentiated high-grade pleomorphic sarcoma (2)  
Massachusetts (New England Medical Center) - Pleomorphic sarcoma favoring liposarcoma  
Michigan, Ann Arbor - Post-irradiation sarcoma  
Michigan (Pathology Services of West Michigan) - Pleomorphic liposarcoma  
Michigan (Oakwood Hospital) - High grade pleomorphic sarcoma  
Minnesota (Fairview Ridges Hospital) - Pleomorphic sarcoma (MFH-like) ? post radiation  
New York (Long Island Jewish Medical Center) - Dedifferentiated liposarcoma  
New York (Nassau University Medical Center) - Pleomorphic malignant fibrous histiocytoma  
New York (Stony Brook University Hospital Residents) - Metaplastic carcinoma



New York (Weill Medical College of Cornell University Residents) - Poorly-differentiated carcinoma vs. pleomorphic sarcoma, NOS

New York (Westchester Medical Center) - Pleomorphic sarcoma with tumor giant cell

North Carolina (Mountain Area Pathology) - Pleomorphic sarcoma (malignant fibrous histiocytoma)

Ohio (McCullough-Hyde Memorial Hospital) - Malignant fibrous histiocytoma

Oklahoma, Oklahoma City - Sarcomatoid carcinoma

Pennsylvania (Allegheny General Hospital) - High grade malignancy

Pennsylvania (Conemaugh Memorial Medical Center) - Pleomorphic rhabdomyosarcoma

Pennsylvania (Drexel University College of Medicine) - Leiomyosarcoma

Pennsylvania (Mt Nittany Medical Center) - Pleomorphic rhabdomyosarcoma

Pennsylvania (Pennsylvania Hospital Residents) - Pleomorphic malignant fibrohistiocytoma

Puerto Rico (University of Puerto Rico) - Pleomorphic sarcoma/MFH

Texas, Lubbock - Malignant fibrous histiocytoma

Texas (ProPath Services) - Malignant fibrous histiocytoma (2)

Texas (University of Texas Medical Branch) - Malignant fibrous histiocytoma, pleomorphic

Texas (Wilford Hall Medical Center) - Pleomorphic malignancy (DDx: High grade sarcoma vs. sarcomatoid carcinoma)

West Virginia (Greenbrier Valley Medical Center) - Pleomorphic malignant fibrous histiocytoma

West Virginia (Wetzel County Hospital) - Clear cell sarcoma

Wisconsin, Madison - High grade sarcoma/? angiosarcoma

Wisconsin (Marshfield Clinic) - Malignant fibrous histiocytoma

Wisconsin (Meriter Hospital) - Metastatic hepatocellular carcinoma

Australia (North Queensland Pathology) - Malignant fibrous histiocytoma

Australia (Royal Prince Alfred Hospital) - Pleomorphic neoplasm—consider metaplastic carcinoma, pleomorphic sarcoma (immunoperoxidase required)

Australia (Sullivan Nicolaides Pathology) - Pleomorphic malignant fibrous histiocytoma (? post radiation)

Brazil (Minas Gerais School of Medicine) - High-grade undifferentiated sarcoma/pleomorphic malignant fibrous histiocytoma

Japan (Kyoto University Hospital) - Undifferentiated high-grade pleomorphic sarcoma

Netherlands, Amstelveen - High grade sarcoma, NOS (rule out a poorly differentiated carcinoma)

New Zealand (Otago District Health Board) - Malignant fibrous histiocytoma following radiotherapy (1); Metaplastic/anaplastic carcinoma, malignant fibrous histiocytoma (1)

Qatar (Hamad Medical Corporation) - High grade sarcoma, NOS (4); Sarcomatoid carcinoma (3)

#### **Case 5 - Diagnosis:**

Pleomorphic liposarcoma, axilla

Director's Note: Note lipoblast--hyperchromatic cells with intracytoplasmic vacuoles that indent the nucleus.

Consultation with Stanford helped confirm the diagnosis. (drc)

T-Y8100, M-88543

#### **Case 5 - References:**

Hashimoto H and Enjoji M. Liposarcoma. A Clinicopathologic Subtyping of 52 Cases. *Acta Pathol Jpn* 1982; 32(6):933-948.

Shimoda T, Yamashita H, Eurusato M, et al. A Light and Electron Microscopic Study with Comments on Their Relation to Malignant Fibrous Histiocytoma and Angiosarcoma. *Acta Pathol Jap* 1980; 30(5):779-797.

Kindblom LG, Angervall L and Svendsen P. Liposarcoma. A Clinicopathologic, Radiographic, and Prognostic Study. *Acta Pathol Microbiol Scand* 1975; (253)1-71.

Miettinen M and Enzinger FM. Epithelioid Variant of Pleomorphic Liposarcoma. A Study of 12 Cases of a Distinctive Variant of High Grade Liposarcoma. *Mod Pathol* 1999; 12(7):722-728.

#### **Case No. 6, Accession No. 28490**

**October 2005**

Alameda (Alameda County Medical Center) - Cardiac rhabdomyoma

Baldwin Park (Kaiser Permanente) - Rhabdomyoma (3)

Fontana (Kaiser Permanente) - Cardiac rhabdomyoma

Fresno (St. Agnes Medical Center) - Rhabdomyoma

Glendale - Cardiac rhabdomyoma

Hayward/Fremont (St. Rose Hospital) - Cardiac rhabdomyoma

Loma Linda (Loma Linda Pathology Residents) - Cardiac rhabdomyoma

Long Beach - Rhabdomyoma (11)

Mountain View (El Camino Pathology Group) - Cardiac rhabdomyoma

Monterey Peninsula (Community Hospital of the Monterey Peninsula) - Rhabdomyoma

Orange (Orange County Medical Group) - Rhabdomyoma  
San Diego (Naval Medical Center) - Cardiac rhabdomyoma (2)  
Santa Rosa (Santa Rosa Memorial Hospital) - Rhabdomyoma  
Ventura - Cardiac rhabdomyoma  
Arkansas (University of Arkansas Medical Center) - Rhabdomyoma, heart  
Arizona, Oro Valley - Rhabdomyoma  
Colorado, Evergreen - Cardiac rhabdomyoma  
Florida (Tallahassee Pathology Associates) - Cardiac rhabdomyoma  
Florida, Winter Haven - Rhabdomyoma  
Illinois, Burr Ridge - Rhabdomyoma  
Illinois (Evanston Hospital) - Rhabdomyoma  
Illinois (Loyola University Medical Center) - Rhabdomyoma  
Illinois (Naval Hospital/Great Lakes) - Cardiac rhabdomyoma  
Illinois (Northwestern Memorial Hospital) - Cardiac rhabdomyoma  
Indiana (Ball Memorial Hospital) - Rhabdomyosarcoma  
Indiana (Howard Community Hospital) - Rhabdomyoma  
Kentucky (University of Louisville Hospital) - Rhabdomyoma  
Louisiana (Louisiana State University Medical Center) - Rhabdomyoma  
Maryland (Northwestern Hospital Center) - Cardiac rhabdomyoma (2)  
Massachusetts (New England Medical Center) - Cardiac rhabdomyoma  
Michigan, Ann Arbor - Rhabdomyoma  
Michigan (Pathology Services of West Michigan) - Atrial myxoma  
Michigan (Oakwood Hospital) - Cardiac rhabdomyoma  
Minnesota (Fairview Ridges Hospital) - Cardiac rhabdomyoma  
New York (Long Island Jewish Medical Center) - Rhabdomyoma  
New York (Nassau University Medical Center) - Rhabdomyoma  
New York (Stony Brook University Hospital Residents) - Rhabdomyoma  
New York (Weill Medical College of Cornell University Residents) - Cardiac rhabdomyoma  
New York (Westchester Medical Center) - Rhabdomyoma  
North Carolina (Mountain Area Pathology) - Rhabdomyoma  
Ohio (McCullough-Hyde Memorial Hospital) - Rhabdomyoma  
Oklahoma, Oklahoma City - Rhabdomyoma  
Pennsylvania (Allegheny General Hospital) - Rhabdomyoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Rhabdomyoma  
Pennsylvania (Drexel University College of Medicine) - Rhabdomyoma  
Pennsylvania (Mt Nittany Medical Center) - Rhabdomyoma  
Pennsylvania (Pennsylvania Hospital Residents) - Rhabdomyoma  
Puerto Rico (University of Puerto Rico) - Cardiac rhabdomyoma  
Texas, Lubbock - Rhabdomyoma  
Texas (ProPath Services) - Cardiac rhabdomyoma (2)  
Texas (University of Texas Medical Branch) - Cardiac rhabdomyoma  
Texas (Wilford Hall Medical Center) - Rhabdomyoma  
West Virginia (Greenbrier Valley Medical Center) - Cardiac rhabdomyoma  
West Virginia (Wetzel County Hospital) - Rhabdomyoma  
Wisconsin, Madison - Rhabdomyoma  
Wisconsin (Marshfield Clinic) - Cardiac rhabdomyoma  
Wisconsin (Meriter Hospital) - Serous microcystic adenoma  
Australia (North Queensland Pathology) - Rhabdomyoma  
Australia (Royal Prince Alfred Hospital) - Cardiac rhabdomyoma (? associated with tuberous sclerosis)  
Australia (Sullivan Nicolaides Pathology) - Rhabdomyoma  
Brazil (Minas Gerais School of Medicine) - Cardiac rhabdomyoma  
Japan (Kyoto University Hospital) - Cardiac rhabdomyoma  
Netherlands, Amstelveen - Rhabdomyoma  
New Zealand (Otago District Health Board) - Cardiac rhabdomyoma (2)  
Qatar (Hamad Medical Corporation) - Fetal rhabdomyoma

#### **Case 6 - Diagnosis:**

Cardiac rhabdomyoma  
 T-32000, M-89000

#### Case 6 - References:

- Harding W and Pagon RA. Incidence of Tuberous Sclerosis in Patients with Cardiac Rhabdomyoma. *Am J Med Genet* 1992; 42:754-755.
- Smalt A and Apitz J. Primary Heart Tumours in Infancy and Childhood Report of 4 Cases and Review of Literature. *Cardiol* 1981; (67):12-16.
- Mcallister H Jr. Primary Tumours of the Heart and Pericardium. *Pathol Annul* 1979(14); 325-330.
- Bosi G, Linterman JP and Pellegrino PA. The Natural History of Cardiac Rhabdomyoma with and Without Tuberous Sclerosis. *Acta Pediatric* 1996; (8):928-931.

#### Case No. 7, Accession No. 29586

October 2005

Alameda (Alameda County Medical Center) - Lipoleiomyoma  
Baldwin Park (Kaiser Permanente) - Lipoleiomyoma (3)  
Fontana (Kaiser Permanente) - Lipoleiomyoma  
Fresno (St. Agnes Medical Center) - Lipoleiomyoma  
Glendale - Lipoleiomyoma  
Hayward/Fremont (St. Rose Hospital) - Lipomatous leiomyoma  
Loma Linda (Loma Linda Pathology Residents) - Myolipoma  
Long Beach - Lipoleiomyoma (11)  
Mountain View (El Camino Pathology Group) - Lipoleiomyoma  
Monterey Peninsula (Community Hospital of the Monterey Peninsula) - Lipoleiomyoma  
Orange (Orange County Medical Group) - Lipoleiomyoma  
San Diego (Naval Medical Center) - Lipoleiomyoma (2)  
Santa Rosa (Santa Rosa Memorial Hospital) - Lipoleiomyoma (3)  
Ventura - Lipoleiomyoma  
Arkansas (University of Arkansas Medical Center) - Lipoleiomyoma, uterus  
Arizona, Oro Valley - Leiomyolipoma  
Colorado, Evergreen - Lipoleiomyoma  
Florida (Tallahassee Pathology Associates) - Lipomatous leiomyoma  
Florida, Winter Haven - Lipoleiomyoma  
Illinois, Burr Ridge - Leiomyolipoma  
Illinois (Evanston Hospital) - Lipoleiomyoma  
Illinois (Loyola University Medical Center) - Lipoleiomyoma  
Illinois (Naval Hospital/Great Lakes) - Lipoleiomyoma  
Illinois (Northwestern Memorial Hospital) - Lipoleiomyoma/angiomyolipoma (Pecoma if HMB45 positive)  
Indiana (Ball Memorial Hospital) - Lipoleiomyoma  
Indiana (Howard Community Hospital) - Lipoleiomyoma  
Kentucky (University of Louisville Hospital) - Lipoleiomyoma  
Louisiana (Louisiana State University Medical Center) - Lipomyoma  
Maryland (Northwestern Hospital Center) - Lipoleiomyoma (2)  
Massachusetts (New England Medical Center) - Leiomyolipoma  
Michigan, Ann Arbor - Lipoleiomyoma  
Michigan (Pathology Services of West Michigan) - Lipoleiomyoma  
Michigan (Oakwood Hospital) - Lipoleiomyoma  
Minnesota (Fairview Ridges Hospital) - Lipoleiomyoma  
New York (Long Island Jewish Medical Center) - Lipoleiomyoma  
New York (Nassau University Medical Center) - Uterine lipoleiomyoma  
New York (Stony Brook University Hospital Residents) - Lipoleiomyoma  
New York (Weill Medical College of Cornell University Residents) - Lipoleiomyoma  
New York (Westchester Medical Center) - Lipoleiomyoma  
North Carolina (Mountain Area Pathology) - Lipoleiomyoma  
Ohio (McCullough-Hyde Memorial Hospital) - Lipoleiomyoma  
Oklahoma, Oklahoma City - Lipoleiomyoma  
Pennsylvania (Allegheny General Hospital) - Lipoleiomyoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Leiomyolipoma  
Pennsylvania (Drexel University College of Medicine) - Angiomyolipoma  
Pennsylvania (Mt Nittany Medical Center) - Lipoleiomyoma of uterus  
Pennsylvania (Pennsylvania Hospital Residents) - Lipoleiomyoma  
Puerto Rico (University of Puerto Rico) - Lipoleiomyoma  
Texas, Lubbock - Leiomyolipoma  
Texas (ProPath Services) - Lipoleiomyosarcoma (2)

Texas (University of Texas Medical Branch) - Lipoleiomyoma  
Texas (Wilford Hall Medical Center) - Lipoleiomyoma  
West Virginia (Greenbrier Valley Medical Center) - Myolipoma or lipoleiomyoma  
West Virginia (Wetzel County Hospital) - Lipoleiomyoma  
Wisconsin, Madison - Lipoleiomyoma  
Wisconsin (Marshfield Clinic) - Lipoleiomyoma  
Wisconsin (Meriter Hospital) - Neuroendocrine carcinoma  
Australia (North Queensland Pathology) - Lipoleiomyoma  
Australia (Royal Prince Alfred Hospital) - Lipoleiomyoma  
Australia (Sullivan Nicolaides Pathology) - Lipoleiomyoma  
Brazil (Minas Gerais School of Medicine) - Uterine lipoleiomyoma  
Japan (Kyoto University Hospital) - Lipoleiomyoma  
Netherlands, Amstelveen - Lipoleiomyoma  
New Zealand (Otago District Health Board) - Lipoleiomyoma (2)  
Qatar (Hamad Medical Corporation) - Lipoleiomyoma

#### **Case 7 - Diagnosis:**

Lipoleiomyoma, uterus  
 T-82000, M-88900

#### **Case 7 - References:**

Jacobs DS, Cohen H and Johnson JS. Lipoleiomyomas of the Uterus. *Am J Clin Pathol* 1965; 44:45-51.  
 Gupta RK and Hunter RE. Lipoma of the Uterus. Review of the Literature with Views on Histogenesis. *Obstet Gynecol* 1964; 24:255-257.

#### **Case No. 8, Accession No. 30053**

**October 2005**

Alameda (Alameda County Medical Center) - Leiomyosarcoma  
Baldwin Park (Kaiser Permanente) - Leiomyosarcoma (3)  
Fontana (Kaiser Permanente) - Leiomyosarcoma  
Fresno (St. Agnes Medical Center) - Leiomyosarcoma  
Glendale - Leiomyosarcoma  
Hayward/Fremont (St. Rose Hospital) - Smooth muscle tumor of unknown malignant potential  
Loma Linda (Loma Linda Pathology Residents) - Leiomyosarcoma  
Long Beach - Leiomyosarcoma (11)  
Mountain View (El Camino Pathology Group) - Leiomyosarcoma  
Monterey Peninsula (Community Hospital of the Monterey Peninsula) - Leiomyosarcoma  
Orange (Orange County Medical Group) - Leiomyosarcoma  
San Diego (Naval Medical Center) - Leiomyosarcoma (2)  
Santa Rosa (Santa Rosa Memorial Hospital) - Leiomyosarcoma  
Arkansas (University of Arkansas Medical Center) - Leiomyosarcoma, retroperitoneum  
Arizona, Oro Valley - Leiomyosarcoma  
Colorado, Evergreen - Leiomyosarcoma  
Florida (Tallahassee Pathology Associates) - Leiomyosarcoma  
Florida, Winter Haven - Leiomyoma  
Illinois, Burr Ridge - Leiomyosarcoma  
Illinois (Evanston Hospital) - Leiomyosarcoma  
Illinois (Loyola University Medical Center) - Leiomyosarcoma  
Illinois (Naval Hospital/Great Lakes) - Leiomyosarcoma  
Illinois (Northwestern Memorial Hospital) - Symplastic (bizarre) leiomyoma  
Indiana (Ball Memorial Hospital) - Leiomyosarcoma  
Indiana (Howard Community Hospital) - Leiomyosarcoma  
Kentucky (University of Louisville Hospital) - Leiomyosarcoma  
Louisiana (Louisiana State University Medical Center) - Leiomyosarcoma  
Maryland (Northwestern Hospital Center) - Leiomyosarcoma (2)  
Massachusetts (New England Medical Center) - Pleomorphic leiomyosarcoma  
Michigan, Ann Arbor - Symplastic leiomyoma  
Michigan (Pathology Services of West Michigan) - Leiomyosarcoma  
Michigan (Oakwood Hospital) - Leiomyosarcoma  
Minnesota (Fairview Ridges Hospital) - Leiomyosarcoma, high-grade

New York (Long Island Jewish Medical Center) - Leiomyosarcoma  
New York (Nassau University Medical Center) - Bizzare leiomyoma  
New York (Stony Brook University Hospital Residents) - Symplastic leiomyoma  
New York (Weill Medical College of Cornell University Residents) - Leiomyosarcoma  
New York (Westchester Medical Center) - Leiomyosarcoma  
North Carolina (Mountain Area Pathology) - Leiomyosarcoma  
Ohio (McCullough-Hyde Memorial Hospital) - Leiomyosarcoma  
Oklahoma, Oklahoma City - Leiomyosarcoma  
Pennsylvania (Allegheny General Hospital) - Leiomyosarcoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Leiomyosarcoma  
Pennsylvania (Drexel University College of Medicine) - Symplastic leiomyoma  
Pennsylvania (Mt Nittany Medical Center) - Leiomyosarcoma, mesentery of colon  
Pennsylvania (Pennsylvania Hospital Residents) - Leiomyosarcoma  
Puerto Rico (University of Puerto Rico) - Symplastic leiomyoma/leiomyosarcoma  
Texas, Lubbock - Leiomyosarcoma  
Texas (ProPath Services) - Low grade leiomyosarcoma (2)  
Texas (University of Texas Medical Branch) - Vascular leiomyosarcoma  
Texas (Wilford Hall Medical Center) - Smooth muscle tumor of uncertain malignant potential (STUMP)  
West Virginia (Greenbrier Valley Medical Center) - Leiomyosarcoma  
West Virginia (Wetzel County Hospital) - Leiomyosarcoma  
Wisconsin, Madison - Leiomyosarcoma (GIST)  
Wisconsin (Marshfield Clinic) - Leiomyosarcoma  
Wisconsin (Meriter Hospital) - Signet cell carcinoma  
Australia (North Queensland Pathology) - Bizarre leiomyoma  
Australia (Royal Prince Alfred Hospital) - Symplastic leiomyoma  
Australia (Sullivan Nicolaides Pathology) - Leiomyosarcoma  
Brazil (Minas Gerais School of Medicine) - Leiomyosarcoma of mesentery  
Japan (Kyoto University Hospital) - Leiomyosarcoma  
Netherlands, Amstelveen - Bizarre leiomyoma  
New Zealand (Otago District Health Board) - Moderately differentiated leiomyosarcoma (1); Leiomyosarcoma (1)  
Qatar (Hamad Medical Corporation) - Leiomyosarcoma

#### **Case 8 - Diagnosis:**

Leiomyosarcoma, mesentery of sigmoid colon  
 T-Y4600, M-88903

#### **Case 8 – References:**

Rajani B, Smith TA, Reith JD and Goldblum JR. Retroperitoneal Leiomyosarcomas Unassociated with Gastrointestinal Tract. A Clinicopathologic Analysis of 17 Cases. *Mod Pathol* 1999; 12(1):21-28.  
 Shmookler BM and Lauer DH. Retroperitoneal Leiomyosarcoma. A Clinicopathologic Analysis of 36 Cases. *Am J Surg Pathol* 1983; 52(3): 567-574.  
 Wile AG, Evans HL and Romsdahl MM. Leiomyosarcoma of Soft Tissue. A Clinicopathologic Study. *Cancer* 1981; 48(4):1022-1032.  
 Fletcher CD, Kilpatrick SE and Metzel T. The Difficulty in Predicting Behavior of Smooth-Muscle Tumors in Deep Soft Tissue. *Am J Surg Pathol* 1995; 19(1):116-117.

#### **Case No. 9, Accession No. 28852**

**October 2005**

Alameda (Alameda County Medical Center) - Dedifferentiated chondrosarcoma  
Baldwin Park (Kaiser Permanente) - Grade 3, chondrosarcoma (1); High grade chondrosarcoma (1); Chondrosarcoma (1)  
Fontana (Kaiser Permanente) - Chondrosarcoma, high grade  
Fresno (St. Agnes Medical Center) - Extraskelatal mesenchymal chondrosarcoma  
Glendale - Dedifferentiated chondrosarcoma  
Hayward/Fremont (St. Rose Hospital) - Extraskelatal mesenchymal chondrosarcoma  
Loma Linda (Loma Linda Pathology Residents) - Chondrosarcoma, grade 2-3  
Long Beach - Low grade chondrosarcoma (11)  
Mountain View (El Camino Pathology Group) - Extraskelatal chondroblastic osteosarcoma  
Monterey Peninsula (Community Hospital of the Monterey Peninsula) - Chondrosarcoma  
Orange (Orange County Medical Group) - Chondrosarcoma

San Diego (Naval Medical Center) - Extraskelatal osteosarcoma/dedifferentiated chondrosarcoma (2)  
Santa Rosa (Santa Rosa Memorial Hospital) - Chondrosarcoma (2); Extraskelatal chondroblastic osteosarcoma (1)  
Arkansas (University of Arkansas Medical Center) - Extraskelatal osteosarcoma, chondroid variant  
Arizona, Oro Valley - Chondrosarcoma  
Colorado, Evergreen - Extraskelatal mesenchymal chondrosarcoma  
Florida (Tallahassee Pathology Associates) - Chondrosarcoma  
Florida, Winter Haven - Chondrosarcoma  
Illinois, Burr Ridge - Chondrosarcoma  
Illinois (Evanston Hospital) - Chondrosarcoma, with dedifferentiation  
Illinois (Loyola University Medical Center) - High grade chondrosarcoma  
Illinois (Naval Hospital/Great Lakes) - Dedifferentiated chondrosarcoma  
Illinois (Northwestern Memorial Hospital) - Sarcoma with cartilagenous differentiation/malignant peripheral nerve sheath tumor with heterologous differentiation  
Indiana (Ball Memorial Hospital) - Chondrosarcoma  
Indiana (Howard Community Hospital) - Chondrosarcoma  
Kentucky (University of Louisville Hospital) - Extraskelatal chondrosarcoma  
Louisiana (Louisiana State University Medical Center) - Chondrosarcoma (dedifferentiated)  
Maryland (Northwestern Hospital Center) - Dedifferentiated chondrosarcoma (1); Chondrosarcoma (1)  
Massachusetts (New England Medical Center) - Dedifferentiated chondrosarcoma/mesenchymal chondrosarcoma  
Michigan, Ann Arbor - Chondrosarcoma  
Michigan (Pathology Services of West Michigan) - Osteosarcoma  
Michigan (Oakwood Hospital) - Chondrosarcoma  
Minnesota (Fairview Ridges Hospital) - Chondrosarcoma  
New York (Long Island Jewish Medical Center) - High grade chondrosarcoma with dedifferentiation  
New York (Nassau University Medical Center) - Chondrosarcoma  
New York (Stony Brook University Hospital Residents) - Mesenchymal chondrosarcoma  
New York (Weill Medical College of Cornell University Residents) - Chondroblastic extraskelatal osteosarcoma  
New York (Westchester Medical Center) - Chondrosarcoma  
North Carolina (Mountain Area Pathology) - Chondrosarcoma  
Ohio (McCullough-Hyde Memorial Hospital) - Chondrosarcoma  
Oklahoma, Oklahoma City - Chondrosarcoma  
Pennsylvania (Allegheny General Hospital) - Extraskelatal dedifferentiated chondrosarcoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Chondrosarcoma  
Pennsylvania (Drexel University College of Medicine) - Chondrosarcoma, dedifferentiated  
Pennsylvania (Mt Nittany Medical Center) - Chondrosarcoma, high grade  
Pennsylvania (Pennsylvania Hospital Residents) - Mesenchymal chondrosarcoma  
Puerto Rico (University of Puerto Rico) - Dedifferentiated chondrosarcoma  
Texas, Lubbock - Chondrosarcoma  
Texas (ProPath Services) - High grade chondrosarcoma (2)  
Texas (University of Texas Medical Branch) - Dedifferentiated chondrosarcoma  
Texas (Wilford Hall Medical Center) - High grade chondrosarcoma of soft tissue  
West Virginia (Greenbrier Valley Medical Center) - Chondrosarcoma  
West Virginia (Wetzel County Hospital) - Chondrosarcoma  
Wisconsin, Madison - Extraskelatal chondrosarcoma  
Wisconsin (Marshfield Clinic) - Chondrosarcoma  
Wisconsin (Meriter Hospital) - Adenocarcinoid  
Australia (North Queensland Pathology) - High grade chondrosarcoma  
Australia (Royal Prince Alfred Hospital) - High grade sarcoma with chondrosarcomatous differentiation  
Australia (Sullivan Nicolaides Pathology) - Poorly differentiated chondrosarcoma  
Brazil (Minas Gerais School of Medicine) - Chondroblastic osteosarcoma of soft tissue  
Japan (Kyoto University Hospital) - Extraskelatal osteosarcoma, chondroblastic  
Netherlands, Amstelveen - Chondrosarcoma  
New Zealand (Otago District Health Board) - Dedifferentiated chondrosarcoma (1); Chondrosarcoma mesenchymal/dedifferentiated (1)  
Qatar (Hamad Medical Corporation) - Chondrosarcoma

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

Extraosseous chondrosarcoma with giant cells, leg  
 T-Y9400, M-88003

Alameda (Alameda County Medical Center) - Hemangioendothelioma  
Baldwin Park (Kaiser Permanente) - Kaposi's sarcoma (3)  
Fontana (Kaiser Permanente) - Hemangioendothelioma vs. low grade angiosarcoma  
Fresno (St. Agnes Medical Center) - Palisaded myofibroblastoma  
Glendale - Angiosarcoma  
Hayward/Fremont (St. Rose Hospital) - Splenic hamartoma  
Loma Linda (Loma Linda Pathology Residents) - Littoral cell angioma  
Long Beach - Kaposi's sarcoma (9); Angiosarcoma, low grade (2)  
Mountain View (El Camino Pathology Group) - Angiosarcoma  
Monterey Peninsula (Community Hospital of the Monterey Peninsula) - Kaposiform hemangioendothelioma vs. angiosarcoma  
Orange (Orange County Medical Group) - Kaposi's sarcoma  
San Diego (Naval Medical Center) - Inflammatory pseudotumor (inflammatory myofibroblastic tumor)/angiosarcoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Angiosarcoma vs. angioendothelioma (1); Hemangioma (1); Splenic vascular spindle cell tumor, favor low grade angiosarcoma (1)  
Arkansas (University of Arkansas Medical Center) - Kaposi's sarcoma, spleen  
Arizona, Oro Valley - Angiosarcoma  
Colorado, Evergreen - Angiosarcoma  
Florida (Tallahassee Pathology Associates) - Angiosarcoma  
Florida, Winter Haven - Hemangioendothelioma  
Illinois, Burr Ridge - Angiosarcoma  
Illinois (Evanston Hospital) - Hemangioendothelioma  
Illinois (Loyola University Medical Center) - Kaposi's sarcoma  
Illinois (Naval Hospital/Great Lakes) - Hemangioendothelioma  
Illinois (Northwestern Memorial Hospital) - Kaposiform hemangioendothelioma  
Indiana (Ball Memorial Hospital) - Littoral cell angioma  
Indiana (Howard Community Hospital) - Hemangioma  
Kentucky (University of Louisville Hospital) - Multinodular hemangioma  
Louisiana (Louisiana State University Medical Center) - Angiosarcoma  
Maryland (Northwestern Hospital Center) - Kaposi's sarcoma (2)  
Massachusetts (New England Medical Center) - Epithelioid hemangioendothelioma  
Michigan, Ann Arbor - Kaposi's sarcoma  
Michigan (Pathology Services of West Michigan) - Angiosarcoma  
Michigan (Oakwood Hospital) - Angiosarcoma  
Minnesota (Fairview Ridges Hospital) - Hemangioendothelioma of spleen  
New York (Long Island Jewish Medical Center) - Angiosarcoma  
New York (Nassau University Medical Center) - Kaposiform hemangioendothelioma  
New York (Stony Brook University Hospital Residents) - Angiosarcoma  
New York (Weill Medical College of Cornell University Residents) - Benign vascular tumor of spleen  
New York (Westchester Medical Center) - Hemangioma  
North Carolina (Mountain Area Pathology) - Spindle cell hemangioendothelioma  
Ohio (McCullough-Hyde Memorial Hospital) - Benign vascular neoplasm of spleen with myxoid and angioepitheliomatous features (Histopath 1999; 35:328)  
Oklahoma, Oklahoma City - Kaposi's sarcoma  
Pennsylvania (Allegheny General Hospital) - Kaposi  
Pennsylvania (Conemaugh Memorial Medical Center) - Hemangioendothelioma  
Pennsylvania (Drexel University College of Medicine) - Angiosarcoma of the spleen  
Pennsylvania (Mt Nittany Medical Center) - Angiosarcoma  
Pennsylvania (Pennsylvania Hospital Residents) - Angiosarcoma  
Puerto Rico (University of Puerto Rico) - Kaposi sarcoma  
Texas, Lubbock - Kaposi sarcoma  
Texas (ProPath Services) - Angiosarcoma (2)  
Texas (University of Texas Medical Branch) - Hemangioendothelioma  
Texas (Wilford Hall Medical Center) - Kaposi's vs. inflammatory myofibroblastic tumor vs. splenic hamartoma  
West Virginia (Greenbrier Valley Medical Center) - Malignant hemangioendothelioma  
West Virginia (Wetzel County Hospital) - Inflammatory pseudotumor  
Wisconsin, Madison - Angiosarcoma  
Wisconsin (Marshfield Clinic) - Angiosarcoma

Wisconsin (Meriter Hospital) - Epithelioid GIST  
Australia (North Queensland Pathology) - Angiosarcoma  
Australia (Royal Prince Alfred Hospital) - Myeloid angioendothelioma/? Inflammatory pseudotumor  
Australia (Sullivan Nicolaides Pathology) - Inflammatory pseudotumor  
Brazil (Minas Gerais School of Medicine) - Vascular lesion possibly hemangioendothelioma Kaposiform/splenic angiosarcoma  
Japan (Kyoto University Hospital) - ? inflammatory myofibroblastic tumor (r/o angiosarcoma)  
Netherlands, Amstelveen - Splenic hemangioma  
New Zealand (Otago District Health Board) - Hemangioendothelioma (1); Angiosarcoma possibly HIV related Kaposi's (1)  
Qatar (Hamad Medical Corporation) - Spindle cell hemangioendothelioma

**Case 10 - Diagnosis:**

Hemangioendothelioma, spleen  
T-07000, M-91301

**Case 10 - References:**

Peitzman AB, Ford HR, Harbrecht BG, et al. Injury to the Spleen. *Curr Prob Surg* 2001; 38(1):932-1008.  
Suster S. Epithelioid and Spindle Cell Hemangioendothelioma of the Spleen. A Report of a Distinctive Splenic Vascular Neoplasm of Childhood. *Am J Surg Pathol* 1992;16(8) 785-792.  
Morgenstern L, Rosenberg J and Geller SA. Tumors of the Spleen. *World J Surg* 1985; 9(3):468-476.