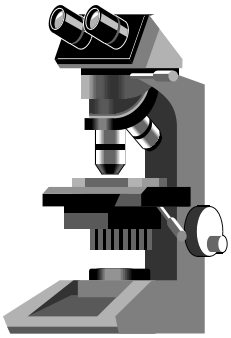
CALIFORNIA
TUMOR TISSUE REGISTRY

SOFT TISSUE PATHOLOGY

Minutes – Subscription A

April, 2006



SUGGESTED READING (General Topics from Recent Literature):

Actin-4 Increases Cell Motility and Promotes Lymph Node Metastasis of Colorectal Cancer. Honda K, Yamada T, Hayashida Y, et al. *Gastroenterology* 2005; 128(1):51-62.

New Vaccine Should Ease Meningitis Fears. Mitka M. *JAMA* 2005; 293:1433-1434.

A Comparison of Virtual and Convention Colonoscopy for Detection of Colorectal Polyps. Fenlon HM. *N Engl J Med* 1999; 341(20):1496-1503.

How to Differentiate Between Eosinophilic Esophagus and Reflux. Parfitt JR, Gregor JC, et al. *Mod Pathol* 2006; 19(1):90-96.

The Moving Gastroesophageal Junction. Chandrasoma P, Makarewicz K, et al. *Hum Pathol* 2006; 37:40-47.

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

FILE DIAGNOSES

(Preferably submitted on website at www.cttr.org. Click "subscriptions", then submit answers".)

CTTR Subscription A April, 2006

Case 1:
Granular cell tumor, abdominal wall
T-Y4100, M-95800

Case 2:
Myxoid neurofibroma, knee
T-Y9200, M-95400

Case 3:
Schwannoma, spinal canal
T-X7410, M-95600

Case 4:
Malignant gastrointestinal stromal tumor, small bowel
T-64000, M-85901

Case 5:
Leiomyosarcoma, uterus
T-85000, M-88903

Case 6:
Epithelioid angiosarcoma (polypoid), small bowel
T-64000, M-91203

Case 7:
Well-differentiated, lipoma-like liposarcoma, retroperitoneum
T-Y4600, M-88513

Case 8:
Myxoid/round cell liposarcoma, mediastinum
T-Y2300, M-88533

Case 9:
Myxofibrosarcoma/myxoid MFH, thigh
T-Y9100, M-88103

Case 10:
Pleomorphic sarcoma (aka "MFH"), thigh
T-Y9100, M-88303

Case No. 1, Accession No. 29429 **April 2006**

Alameda (Garfield Medical Center) - Granular cell tumor
Baldwin Park (Kaiser Permanente) - Granular cell tumor (3)
Fontana (Kaiser Permanente Hospital) - Granular cell tumor
Fresno (St. Agnes Medical Center) - Granular cell tumor
Glendale - Granular cell tumor
Hayward/Fremont (St. Rose Hospital) - Granular cell tumor
Irvine (University of California Irvine) - Granular cell tumor
Long Beach (Lakewood Regional Medical Center) - Granular cell tumor (8)
Mountain View (El Camino Pathology) - Granular cell tumor
Orange (Orange County Medical Group) - Granular cell tumor
Oxnard (St. John's Regional Medical Center) - Granular cell tumor (4)
Sacramento (UC Davis) - Granular cell tumor
San Diego (Naval Medical Center) - Granular cell tumor (2)
San Francisco (San Francisco General Hospital) - Granular cell tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Granular cell tumor (3)
Woodland Hills (Kaiser Permanente Medical Center) - Granular cell tumor
Arkansas (UAMS) - Granular cell tumor, abdominal wall
Arizona, Oro Valley - Granular cell tumor
Florida (Jackson Memorial Hospital) - Granular cell tumor
Florida (Munroe Regional Medical Center) - Granular cell tumor
Florida, Tallahassee - Granular cell tumor
Florida (Winter Haven Hospital) - Granular cell tumor
Illinois, Burr Ridge - Granular cell tumor
Illinois (Loyola University Medical Center) - Granular cell tumor
Illinois (Naval Hospital Great Lakes) - Granular cell tumor
Indiana (Kokamo Pathologist Health System) - Granular cell tumor
Maryland (Northwest Hospital Center) - Granular cell tumor
Maryland (University of Maryland) - Granular cell tumor
Michigan, Kalamazoo - Granular cell tumor
Michigan (Oakwood Hospital) - Granular cell tumor
Nebraska (Creighton University School of Medicine) - Granular cell tumor
New York (Nassau University Medical Center) - Granular cell tumor
New York (New York Stony Brook University Hospital Residents) - Granular cell tumor
New York (SUNY Downstate Residents) - Granular cell tumor
New York (Westchester Medical Center) - Granular cell tumor
North Carolina (Mountain Area Pathology) - Granular cell tumor (5)
North Carolina (Presbyterian Hospital) - Granular cell tumor (2)
Ohio (McCullough-Hyde Memorial Hospital) - Granular cell tumor
Pennsylvania (Allegheny General Hospital) - Granular cell tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Granular cell tumor
Pennsylvania (Drexel University College of Medicine) - Granular cell tumor
Pennsylvania (Lehigh Valley Hospital) - Granular cell tumor
Pennsylvania (Mt. Nittany Medical Center) - Granular cell tumor, abdomen
Pennsylvania (Pennsylvania Hospital Residents) - Granular cell tumor
Puerto Rico (University of Puerto Rico) - Granular cell tumor
Texas, Dallas - Granular cell tumor
Texas (Lackland AFB) - Granular cell tumor
Texas, Lubbock - Granular cell tumor
Texas (Scott & White Memorial Hospital) - Granular cell tumor
Texas (University of Texas) - Granular cell tumor
West Virginia (Greenbrier Valley Medical Center) - Benign granular cell tumor
West Virginia (Wetzel County Hospital) - Granular cell tumor
Wisconsin (Pathology Associates of Wisconsin) - Granular cell tumor
Wisconsin, Marshfield - Granular cell tumor
Wisconsin (Meriter Hospital) - Granular cell tumor
Australia (North Queensland Pathology Group) - Granular cell tumor
Australia (Royal Hobart Hospital) - Granular cell tumor
Australia (Royal Prince Alfred Hospital) - Granular cell tumor
Australia (Sullivan Nicolaides Pathology) - Granular cell tumor
Canada (Pasqua Hospital) - Granular cell tumor
Germany (UKE, Kerminstitut fur Pathologie) - Granular cell tumor

Ireland (Kerry General Hospital) - Granular cell tumor
Jamaica (The University of the West Indies) - Granular cell tumor
Japan (Kyoto University Hospital) - Granular cell tumor
Monterey Park (Monterey Peninsula Pathologists) - Granular cell tumor
New Zealand (Otago Diagnostic Laboratories) - Granular cell tumor
Oman (Khoula Hospital) - Granular cell tumor
Qatar (Hamad Medical Corporation) - Granular cell tumor
Saudi Arabia (King Fahad National Guard Hospital) - Granular cell tumor

Case 1 - Diagnosis:

Granular cell tumor, abdominal wall
T-Y4100, M-95800

Case 1 – References:

Le BH, Boyer PJ, Lewis JE, et al. Granular Cell Tumor. Immunohistiochemical Assessment of Inhibin-Alpha Protein Gene Product 9.5, S100 Protein, CD68, and Ki-67 Proliferative Index with Clinical Correlation. *Arch Pathol Lab Med* 2004; 128(7):771-775.
Carinci F, Piattelli A, Rubini C, Fioroni M, et al. Genetic Profiling of Granular Cell Myoblastoma. *J Craniofac Surg* 2004; 15(5):824-834.
Sohn DK, Choi HS, Chang YS, et al. Granular Cell Tumor of Colon. Report of a Case and Review of Literature. *World J Gastroenterol* 2004; 10(16):2452-2454.
Prematilleke IV, Sujendran V, Warren BF, et al. Granular Cell Tumour of the Oesophagus Mimicking a Gastrointestinal Stromal Tumour on Frozen Section. *Histopathol* 2004; 44(5):502-503.
Takayama Y, Hasuo K, Takahashi N, et al. Granular Cell Tumor Presenting As An Intradural Extramedullary Tumor. *Clin Imaging* 2004; 28(4):271-273.

Case No. 2, Accession No. 29984 April 2006

Alameda (Garfield Medical Center) - Schwannoma, benign
Baldwin Park (Kaiser Permanente) - Neurofibroma (3)
Fontana (Kaiser Permanente Hospital) - Neurofibroma
Fresno (St. Agnes Medical Center) - Spindle cell lipoma
Glendale - Peripheral nerve sheath tumor
Hayward/Fremont (St. Rose Hospital) - Neurofibroma
Irvine (University of California Irvine) - Neurofibroma
Long Beach (Lakewood Regional Medical Center) - Neurofibroma (8)
Mountain View (El Camino Pathology) - Neurofibroma
Orange (Orange County Medical Group) - Myxoid neurofibroma
Oxnard (St. John's Regional Medical Center) - Juxta articular myxoma (4)
Sacramento (UC Davis) - Neurofibroma
San Diego (Naval Medical Center) - Schwannoma (1); Neurofibroma (1)
San Francisco (San Francisco General Hospital) - Schwannoma
Santa Rosa (Santa Rosa Memorial Hospital) - Benign nerve sheath tumor (1); Neurofibroma with myxoid features (1); Neurofibroma (1)
Woodland Hills (Kaiser Permanente Medical Center) - Neurofibroma
Arkansas (UAMS) - Neurofibroma, knee
Arizona, Oro Valley - Neurofibroma
Florida (Jackson Memorial Hospital) - Neurofibroma
Florida (Munroe Regional Medical Center) - Neurofibroma
Florida, Tallahassee - Benign nerve sheath tumor
Florida (Winter Haven Hospital) - Neurofibroma
Illinois, Burr Ridge - Nerve sheath myxoma
Illinois (Loyola University Medical Center) - Neurofibroma
Illinois (Naval Hospital Great Lakes) - Atypical neurofibroma
Indiana (Kokamo Pathologist Health System) - Schwannoma
Maryland (Northwest Hospital Center) - Myxoid neurofibroma
Maryland (University of Maryland) - Neurofibroma
Michigan, Kalamazoo - Juxtaarticular myxoma
Michigan (Oakwood Hospital) - Schwannoma
Nebraska (Creighton University School of Medicine) - Myxoid neurofibroma

New York (Nassau University Medical Center) - Schwannoma
New York (New York Stony Brook University Hospital Residents) - Ancient schwannoma
New York (SUNY Downstate Residents) - Neurofibroma, myxoid vs. schwannoma
New York (Westchester Medical Center) - Neurofibroma
North Carolina (Mountain Area Pathology) - Neurofibroma (5)
North Carolina (Presbyterian Hospital) - Neurilemmoma (2)
Ohio (McCullough-Hyde Memorial Hospital) - Neurofibroma
Pennsylvania (Allegheny General Hospital) - Neurofibroma
Pennsylvania (Conemaugh Memorial Medical Center) - Ancient schwannoma
Pennsylvania (Drexel University College of Medicine) - Neurofibroma
Pennsylvania (Lehigh Valley Hospital) - Neurofibroma
Pennsylvania (Mt. Nittany Medical Center) - Myxoid neurofibroma, knee
Pennsylvania (Pennsylvania Hospital Residents) - Nodular fasciitis
Puerto Rico (University of Puerto Rico) - Ancient schwannoma
Texas, Dallas - Neurofibroma
Texas (Lackland AFB) - Neurofibroma
Texas, Lubbock - Neurilemmoma
Texas (Scott & White Memorial Hospital) - Schwannoma
Texas (University of Texas) - Neurofibroma
West Virginia (Greenbrier Valley Medical Center) - Neurofibroma
West Virginia (Wetzel County Hospital) - Myxolipoma
Wisconsin (Pathology Associates of Wisconsin) - Neurofibroma
Wisconsin, Marshfield - Neurofibroma
Wisconsin (Meriter Hospital) - Myxoid liposarcoma
Australia (North Queensland Pathology Group) - Neurofibroma
Australia (Royal Hobart Hospital) - Neurofibroma
Australia (Royal Prince Alfred Hospital) - Encapsulated neurofibroma
Australia (Sullivan Nicolaides Pathology) - Neurofibroma
Canada (Pasqua Hospital) - Neurofibroma
Germany (UKE, Kerminstitut fur Pathologie) - Neurothecoma
Ireland (Kerry General Hospital) - Neurofibroma
Jamaica (The University of the West Indies) - Neurofibroma
Japan (Kyoto University Hospital) - Neurofibroma
Monterey Park (Monterey Peninsula Pathologists) - Myxoid neurothecoma
New Zealand (Otago Diagnostic Laboratories) - Spindle cell lipoma
Oman (Khoula Hospital) - Myxoid neurofibroma (2); Schwannoma (1)
Qatar (Hamad Medical Corporation) - Neurofibroma
Saudi Arabia (King Fahad National Guard Hospital) - Neurofibroma

Case 2 - Diagnosis:

Myxoid neurofibroma, knee
T-Y9200, M-95400

Case 2 - References:

Lin BT, Weiss LM and Medeiros LJ. Neurofibroma and Cellular Neurofibroma with Atypia. A Report of 14 Tumors. *Am J Surg Pathol* 1997; 21(12):443-449.

Reynolds RM, Browning GGP, Nowoz I, Campbell IW, von Recklinghausen. Neurofibromatosis. Neurofibromatosis Type I. The *Lancet* 2003; 361(9368): 1552-1554.

Hybbinette CH. Solitary Benign Nerve Sheath Tumors Around the Knee Joint. Report of Four Cases. *Acta Orthop Scand* 1973; 44(3):296-302.

Mandell GA, Dalinka MK and Coleman BG. Fibrous Lesions in the Lower Extremities in Neurofibromatosis. *AJR Am J Roentgenol* 1979; 133(6):1135-1138.

From the Archives of the AFIP. Imaging of Musculoskeletal Neurogenic Tumors. Radiologic-Pathologic Correlation. *Radiographics* 1999; 19(5):1253-1280.

Lokiec F, Arbel R, Isakov J, et al. Neuropathic Arthropathy of the Knee Associated with an Intra-Articular Neurofibroma in a Child. *J Bone Joint Surg Br* 1998 80(3):468-470.

Alameda (Garfield Medical Center) - Schwannoma
Baldwin Park (Kaiser Permanente) - Schwannoma (3)
Fontana (Kaiser Permanente Hospital) - Malignant schwannoma
Fresno (St. Agnes Medical Center) - Schwannoma
Glendale - Cellular schwannoma
Hayward/Fremont (St. Rose Hospital) - Neurilemmoma
Irvine (University of California Irvine) - Schwannoma
Long Beach (Lakewood Regional Medical Center) - Schwannoma (8)
Mountain View (El Camino Pathology) - Cellular schwannoma
Orange (Orange County Medical Group) - Schwannoma
Oxnard (St. John's Regional Medical Center) - Schwannoma (neurilemmoma) (4)
Sacramento (UC Davis) - Schwannoma
San Diego (Naval Medical Center) - Cellular schwannoma (2)
San Francisco (San Francisco General Hospital) - Plexiform neurofibroma
Santa Rosa (Santa Rosa Memorial Hospital) - Benign nerve sheath tumor (1); Schwannoma (1); Neurofibroma (1)
Woodland Hills (Kaiser Permanente Medical Center) - Schwannoma
Arkansas (UAMS) - Malignant peripheral nerve sheath tumor, lumbar spine
Arizona, Oro Valley - Schwannoma
Florida (Jackson Memorial Hospital) - Schwannoma
Florida (Munroe Regional Medical Center) - Schwannoma
Florida, Tallahassee - Neurofibroma
Florida (Winter Haven Hospital) - Schwannoma
Illinois, Burr Ridge - Solitary schwannoma
Illinois (Loyola University Medical Center) - Schwannoma
Illinois (Naval Hospital Great Lakes) - Schwannoma
Indiana (Kokamo Pathologist Health System) - Neurofibroma
Maryland (Northwest Hospital Center) - Schwannoma
Maryland (University of Maryland) - Schwannoma
Michigan, Kalamazoo - Schwannoma
Michigan (Oakwood Hospital) - Schwannoma
Nebraska (Creighton University School of Medicine) - Schwannoma
New York (Nassau University Medical Center) - Schwannoma
New York (New York Stony Brook University Hospital Residents) - Cellular schwannoma
New York (SUNY Downstate Residents) - Schwannoma
New York (Westchester Medical Center) - Schwannoma
North Carolina (Mountain Area Pathology) - Schwannoma (5)
North Carolina (Presbyterian Hospital) - Schwannoma (2)
Ohio (McCullough-Hyde Memorial Hospital) - Neurilemmoma
Pennsylvania (Allegheny General Hospital) - Cellular schwannoma
Pennsylvania (Conemaugh Memorial Medical Center) - Schwannoma
Pennsylvania (Drexel University College of Medicine) - Schwannoma
Pennsylvania (Lehigh Valley Hospital) - Schwannoma
Pennsylvania (Mt. Nittany Medical Center) - Neurofibroma
Pennsylvania (Pennsylvania Hospital Residents) - Cellular schwannoma
Puerto Rico (University of Puerto Rico) - Schwannoma
Texas, Dallas - Schwannoma
Texas (Lackland AFB) - Cellular schwannoma
Texas, Lubbock - Neurofibroma
Texas (Scott & White Memorial Hospital) - Cellular schwannoma
Texas (University of Texas) - Schwannoma
West Virginia (Greenbrier Valley Medical Center) - Cellular schwannoma
West Virginia (Wetzel County Hospital) - Neurofibroma
Wisconsin (Pathology Associates of Wisconsin) - Neurilemmoma
Wisconsin, Marshfield - Schwannoma
Wisconsin (Meriter Hospital) - Schwannoma
Australia (North Queensland Pathology Group) - Schwannoma
Australia (Royal Hobart Hospital) - Cellular schwannoma
Australia (Royal Prince Alfred Hospital) - Schwannoma
Australia (Sullivan Nicolaides Pathology) - Neurilemmoma (schwannoma)
Canada (Pasqua Hospital) - Schwannoma
Germany (UKE, Kerminstitut fur Pathologie) - Schwannoma

Ireland (Kerry General Hospital) - Cellular schwannoma
Jamaica (The University of the West Indies) - Neurofibroma
Japan (Kyoto University Hospital) - Cellular schwannoma
Monterey Park (Monterey Peninsula Pathologists) - Neurofibroma/schwannoma
New Zealand (Otago Diagnostic Laboratories) - Schwannoma
Oman (Khoula Hospital) - Cellular schwannoma
Qatar (Hamad Medical Corporation) - Schwannoma/neurilemmoma
Saudi Arabia (King Fahad National Guard Hospital) - Ancient schwannoma

Case 3 - Diagnosis:

Schwannoma, spinal canal
T-X7410, M-95600

Case 3 - References:

Burger PC and Scheithauer BW. Tumors of the Peripheral Nerve Sheath in Atlas of Tumor Pathology, Third Series, Fascicle 10 Washington DC, *Armed Forces Institute of Pathology* 1993; 333-343.

Cox JM and Alter M. Schwannoma. Challenging Diagnosis. *J Manipulative Physiol Ther* 2001; 24(8):526-528.

O'Toole JE and McCormick PC. Midline Ventral Intradural Schwannoma of the Cervical Spinal Cord Resected via Anterior Corpectomy with Reconstruction. Technical Case Report and Review of the Literature. *Neurosurg* 2003; 52(6):1482-1485.

Conti P, Pansini G, Mouchaty H, et al. Spinal Neurinomas. Retrospective Analysis and Long-Term Outcome of 179 Consecutively Operated Cases and Review of the Literature. *Surg Neurol* 2004; 61(1): 34-43.

Case No. 4, Accession No. 30075 April 2006

Alameda (Garfield Medical Center) - Gastrointestinal stromal tumor
Baldwin Park (Kaiser Permanente) - Gastrointestinal stromal tumor (3)
Fontana (Kaiser Permanente Hospital) - Malignant gastrointestinal stromal tumor
Fresno (St. Agnes Medical Center) - Gastrointestinal stromal tumor
Glendale - Gastrointestinal stromal tumor
Hayward/Fremont (St. Rose Hospital) - Gastrointestinal stromal tumor, probably malignant
Irvine (University of California Irvine) - Gastrointestinal stromal tumor
Long Beach (Lakewood Regional Medical Center) - Gastrointestinal stromal tumor, malignant (8)
Mountain View (El Camino Pathology) - GI stromal tumor
Orange (Orange County Medical Group) - GI stromal tumor
Oxnard (St. John's Regional Medical Center) - Gastrointestinal stromal tumor (4)
Sacramento (UC Davis) - Gastrointestinal stromal tumor
San Diego (Naval Medical Center) - Gastrointestinal stromal tumor (2)
San Francisco (San Francisco General Hospital) - Gastrointestinal stromal tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Gastrointestinal stromal tumor (GIST) (3)
Woodland Hills (Kaiser Permanente Medical Center) - Gastrointestinal stromal tumor
Arkansas (UAMS) - Gastrointestinal stromal tumor, small bowel
Arizona, Oro Valley - Gastrointestinal stromal tumor
Florida (Jackson Memorial Hospital) - Gastrointestinal stromal tumor
Florida (Munroe Regional Medical Center) - Gastrointestinal stromal tumor
Florida, Tallahassee - Gastrointestinal stromal tumor
Florida (Winter Haven Hospital) - Gastrointestinal stromal tumor
Illinois, Burr Ridge - Gastrointestinal stromal tumor
Illinois (Loyola University Medical Center) - Gastrointestinal stromal tumor, high risk
Illinois (Naval Hospital Great Lakes) - Gastrointestinal stromal tumor
Indiana (Kokamo Pathologist Health System) - Gastrointestinal stromal tumor
Maryland (Northwest Hospital Center) - Gastrointestinal stromal tumor
Maryland (University of Maryland) - Gastrointestinal stromal tumor, malignant
Michigan, Kalamazoo - Malignant gastrointestinal stromal tumor
Michigan (Oakwood Hospital) - Gastrointestinal stromal tumor
Nebraska (Creighton University School of Medicine) - Gastrointestinal stromal tumor
New York (Nassau University Medical Center) - Gastrointestinal stromal tumor
New York (New York Stony Brook University Hospital Residents) - Gastrointestinal stromal tumor
New York (SUNY Downstate Residents) - Gastrointestinal stromal tumor
New York (Westchester Medical Center) - Gastrointestinal stromal tumor

North Carolina (Mountain Area Pathology) - Angiosarcoma (4); Malignant gastrointestinal stromal tumor (1)
North Carolina (Presbyterian Hospital) - Gastrointestinal stromal tumor (2)
Ohio (McCullough-Hyde Memorial Hospital) - Gastrointestinal stromal tumor (GIST)
Pennsylvania (Allegheny General Hospital) - Gastrointestinal stromal tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Gastrointestinal stromal tumor
Pennsylvania (Drexel University College of Medicine) - Gastrointestinal stromal tumor, unknown malignant potential
Pennsylvania (Lehigh Valley Hospital) - Gastrointestinal stromal tumor, malignant
Pennsylvania (Mt. Nittany Medical Center) - Malignant gastrointestinal stromal tumor, small bowel
Pennsylvania (Pennsylvania Hospital Residents) - Gastrointestinal stromal tumor
Puerto Rico (University of Puerto Rico) - Gastrointestinal stromal tumor
Texas, Dallas - Gastrointestinal stromal tumor
Texas (Lackland AFB) - Gastrointestinal stromal tumor
Texas, Lubbock - Gastrointestinal stromal tumor
Texas (Scott & White Memorial Hospital) - Gastrointestinal stromal tumor
Texas (University of Texas) - Gastrointestinal stromal tumor
West Virginia (Greenbrier Valley Medical Center) - Gastrointestinal stromal tumor
West Virginia (Wetzel County Hospital) - Malignant gastrointestinal stromal tumor
Wisconsin (Pathology Associates of Wisconsin) - Gastrointestinal stromal tumor, high grade
Wisconsin, Marshfield - Malignant gastrointestinal stromal tumor
Wisconsin (Meriter Hospital) - Gastrointestinal stromal tumor, malignant
Australia (North Queensland Pathology Group) - Gastrointestinal stromal tumor
Australia (Royal Hobart Hospital) - Gastrointestinal stromal tumor
Australia (Royal Prince Alfred Hospital) - Malignant gastrointestinal stromal tumor
Australia (Sullivan Nicolaides Pathology) - Gastrointestinal stromal tumor
Canada (Pasqua Hospital) - Gastrointestinal stromal tumor
Germany (UKE, Kerminstitut fur Pathologie) - Gastrointestinal stromal tumor
Ireland (Kerry General Hospital) - Gastrointestinal stromal tumor
Jamaica (The University of the West Indies) - Gastrointestinal stromal tumor
Japan (Kyoto University Hospital) - Gastrointestinal stromal tumor
Monterey Park (Monterey Peninsula Pathologists) - Gastrointestinal stromal tumor
New Zealand (Otago Diagnostic Laboratories) - Malignant gastrointestinal stromal tumor
Oman (Khoula Hospital) - Gastrointestinal stromal tumor
Qatar (Hamad Medical Corporation) - Gastrointestinal stromal tumor, borderline
Saudi Arabia (King Fahad National Guard Hospital) - Malignant gastrointestinal stromal tumor

Case 4 - Diagnosis:

Malignant gastrointestinal stromal tumor, small bowel
T-64000, M-85901

Case 4 - References:

Irving JA, Lerwill MF and Young RH. Gastrointestinal Stromal Tumors Metastatic to the Ovary. A Report of Five Cases. *Am J Surg Pathol* 2005; 29(7):920-926.
Consorti ET, Liu TH and McGee A. Image of the month. Small-Bowel Stromal tumor. *Arch Surg* 2002; 137(11): 1311-1312.
Iesalnieks I, Rummele P, Dietmaier W, et al. Factors Associated with Disease Progression in Patients with Gastrointestinal Stromal Tumors in the Pre-Imatinib Era. *Am J Clin Pathol* 2005; 124(5):740-748.
Goldblum JR. Gastrointestinal Stromal Tumors. A Review of Characteristics Morphologic, Immunohistochemical and Molecular Genetic Features. *Am J Clin Pathol* 2002; 117:S49-61.
Torres M, Matta E, Chinea B, et al. Malignant Tumors of the Small Intestine. *J Clin Gastroenterol* 2003; 37(5):372-380.

Case No. 5, Accession No. 30186 April 2006

Alameda (Garfield Medical Center) - High grade stromal sarcoma
Baldwin Park (Kaiser Permanente) - High grade leiomyosarcoma (1); Leiomyosarcoma (2)
Fontana (Kaiser Permanente Hospital) - Uterine leiomyosarcoma
Fresno (St. Agnes Medical Center) - Leiomyosarcoma with vascular invasion
Glendale - High grade sarcoma
Hayward/Fremont (St. Rose Hospital) - Endometrial stromal sarcoma
Irvine (University of California Irvine) - Endometrial stromal sarcoma
Long Beach (Lakewood Regional Medical Center) - Leiomyosarcoma (8)
Mountain View (El Camino Pathology) - Leiomyosarcoma, high grade

Orange (Orange County Medical Group) - Leiomyosarcoma
Oxnard (St. John's Regional Medical Center) - Leiomyosarcoma (4)
Sacramento (UC Davis) - Leiomyosarcoma
San Diego (Naval Medical Center) - Leiomyosarcoma (2)
San Francisco (San Francisco General Hospital) - Leiomyosarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Leiomyosarcoma (3)
Woodland Hills (Kaiser Permanente Medical Center) - High grade leiomyosarcoma
Arkansas (UAMS) - Leiomyosarcoma, uterus
Arizona, Oro Valley - Leiomyosarcoma
Florida (Jackson Memorial Hospital) - Leiomyosarcoma
Florida (Munroe Regional Medical Center) - Leiomyosarcoma
Florida, Tallahassee - Leiomyosarcoma
Florida (Winter Haven Hospital) - High grade leiomyosarcoma
Illinois, Burr Ridge - Leiomyosarcoma
Illinois (Loyola University Medical Center) - Leiomyosarcoma
Illinois (Naval Hospital Great Lakes) - Leiomyosarcoma
Indiana (Kokamo Pathologist Health System) - Endometrial stromal sarcoma
Maryland (Northwest Hospital Center) - Leiomyosarcoma
Maryland (University of Maryland) - Leiomyosarcoma, high grade
Michigan, Kalamazoo - Leiomyosarcoma
Michigan (Oakwood Hospital) - Leiomyosarcoma
Nebraska (Creighton University School of Medicine) - Leiomyosarcoma
New York (Nassau University Medical Center) - Leiomyosarcoma with intravascular spreading
New York (New York Stony Brook University Hospital Residents) - Leiomyosarcoma
New York (SUNY Downstate Residents) - Leiomyosarcoma, high grade
New York (Westchester Medical Center) - Leiomyosarcoma
North Carolina (Mountain Area Pathology) - Heterologous uterine sarcoma/leiomyo and ? osteo (1); Leiomyosarcoma (4)
North Carolina (Presbyterian Hospital) - Mixed mullerian tumor (1); Malignant mixed endometrial stromal tumor (1)
Ohio (McCullough-Hyde Memorial Hospital) - Leiomyosarcoma
Pennsylvania (Allegheny General Hospital) - High grade stromal sarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Stromal cell sarcoma
Pennsylvania (Drexel University College of Medicine) - Leiomyosarcoma
Pennsylvania (Lehigh Valley Hospital) - Leiomyosarcoma
Pennsylvania (Mt. Nittany Medical Center) - Endometrial stromal sarcoma, high grade, uterus
Pennsylvania (Pennsylvania Hospital Residents) - Leiomyosarcoma
Puerto Rico (University of Puerto Rico) - Leiomyosarcoma
Texas, Dallas - Leiomyosarcoma
Texas (Lackland AFB) - Leiomyosarcoma
Texas, Lubbock - Leiomyosarcoma
Texas (Scott & White Memorial Hospital) - Leiomyosarcoma
Texas (University of Texas) - Leiomyosarcoma
West Virginia (Greenbrier Valley Medical Center) - Leiomyosarcoma
West Virginia (Wetzel County Hospital) - Leiomyosarcoma
Wisconsin (Pathology Associates of Wisconsin) - Leiomyosarcoma
Wisconsin, Marshfield - Leiomyosarcoma
Wisconsin (Meriter Hospital) - Leiomyosarcoma
Australia (North Queensland Pathology Group) - Leiomyosarcoma
Australia (Royal Hobart Hospital) - High grade leiomyosarcoma
Australia (Royal Prince Alfred Hospital) - Leiomyosarcoma
Australia (Sullivan Nicolaides Pathology) - Leiomyosarcoma
Canada (Pasqua Hospital) - Leiomyosarcoma
Germany (UKE, Kerminstitut fur Pathologie) - Leiomyosarcoma
Ireland (Kerry General Hospital) - Leiomyosarcoma
Jamaica (The University of the West Indies) - Leiomyosarcoma
Japan (Kyoto University Hospital) - Leiomyosarcoma
Monterey Park (Monterey Peninsula Pathologists) - Leiomyosarcoma
New Zealand (Otago Diagnostic Laboratories) - Leiomyosarcoma
Oman (Khoula Hospital) - Sarcoma, leiomyosarcoma (2); Endometrial stromal sarcoma (1)
Qatar (Hamad Medical Corporation) - Leiomyosarcoma
Saudi Arabia (King Fahad National Guard Hospital) - Leiomyosarcoma

Case 5 - Diagnosis:

Leiomyosarcoma, uterus
T-85000, M-88903

Case 5 - References:

Kato K, Shiozawa T, Mitsushita J, Toda A, et al. Expression of the Mitogen-Inducible Gene-2 (Mig 2) is Elevated In Human Uterine Leiomyomas But Not in Leiomyosarcomas. *Hum Pathol* 2004; 35(1):55-60.

Silverberg SG. Leiomyosarcoma of the Uterus. A Clinicopathologic Study. *Obstet Gynecol* 1971; 38(4):613-628.

Leibsohn S, d'Ablaing G, Mishell DR, Jr., et al. Leiomyosarcoma in a Series of Hysterectomies Performed for Presumed Uterine Leiomyomas. *Am J Obstet Gynecol* 1990; 162(4):968-974.

Marshall RJ, Braye SG and Jones DB. Leiomyosarcoma of the Uterus with Giant Cells Resembling Osteoclasts. *Int Gynecol Pathol* 1986; 5(3):260-268.

Peacock G and Archer S. Myxoid Leiomyosarcoma of the Uterus. Case Report and Review of the Literature. *Am J Obstet Gynecol* 1989; 160(6):1515-1518.

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Case No. 6, Accession No. 30190 April 2006

Alameda (Garfield Medical Center) - Angiosarcoma
Baldwin Park (Kaiser Permanente) - Angiosarcoma (3)
Fontana (Kaiser Permanente Hospital) - Angiosarcoma
Fresno (St. Agnes Medical Center) - Angiosarcoma
Glendale - High-grade angiosarcoma
Hayward/Fremont (St. Rose Hospital) - Angiosarcoma, high grade
Irvine (University of California Irvine) - Angiosarcoma
Long Beach (Lakewood Regional Medical Center) - Angiosarcoma (8)
Mountain View (El Camino Pathology) - Angiosarcoma, high grade
Orange (Orange County Medical Group) - Angiosarcoma
Oxnard (St. John's Regional Medical Center) - Angiosarcoma (3)
Sacramento (UC Davis) - Angiosarcoma
San Diego (Naval Medical Center) - Angiosarcoma (2)
San Francisco (San Francisco General Hospital) - Angiosarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Angiosarcoma (3)
Woodland Hills (Kaiser Permanente Medical Center) - Angiosarcoma
Arkansas (UAMS) - Angiosarcoma, small bowel
Arizona, Oro Valley - Angiosarcoma
Florida (Jackson Memorial Hospital) - Angiosarcoma
Florida (Munroe Regional Medical Center) - Angiosarcoma
Florida, Tallahassee - Angiosarcoma
Florida (Winter Haven Hospital) - Epithelioid angiosarcoma
Illinois, Burr Ridge - Epithelioid hemangioendothelioma
Illinois (Loyola University Medical Center) - Angiosarcoma, epithelioid type
Illinois (Naval Hospital Great Lakes) - Angiosarcoma
Indiana (Kokamo Pathologist Health System) - Kaposi's sarcoma
Maryland (Northwest Hospital Center) - Angiosarcoma
Maryland (University of Maryland) - Angiosarcoma
Michigan, Kalamazoo - Angiosarcoma
Michigan (Oakwood Hospital) - Angiosarcoma
Nebraska (Creighton University School of Medicine) - Epithelioid angiosarcoma
New York (Nassau University Medical Center) - Angiosarcoma
New York (New York Stony Brook University Hospital Residents) - Angiosarcoma
New York (SUNY Downstate Residents) - Angiosarcoma, high grade
New York (Westchester Medical Center) - Angiosarcoma
North Carolina (Mountain Area Pathology) - Angiosarcoma, epithelioid (5)
North Carolina (Presbyterian Hospital) - Epithelioid angiosarcoma (2)
Ohio (McCullough-Hyde Memorial Hospital) - Angiosarcoma
Pennsylvania (Allegheny General Hospital) - Poorly differentiated epithelioid angiosarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Epithelioid angiosarcoma
Pennsylvania (Drexel University College of Medicine) - Angiosarcoma

Pennsylvania (Lehigh Valley Hospital) - Angiosarcoma
Pennsylvania (Mt. Nittany Medical Center) - Angiosarcoma, bowel
Pennsylvania (Pennsylvania Hospital Residents) - Angiosarcoma
Puerto Rico (University of Puerto Rico) - Angiosarcoma
Texas, Dallas - Angiosarcoma
Texas (Lackland AFB) - Angiosarcoma
Texas, Lubbock - Angiosarcoma
Texas (Scott & White Memorial Hospital) - Angiosarcoma
Texas (University of Texas) - Angiosarcoma, high grade
West Virginia (Greenbrier Valley Medical Center) - Angiosarcoma
West Virginia (Wetzel County Hospital) - Angiosarcoma
Wisconsin (Pathology Associates of Wisconsin) - Angiosarcoma
Wisconsin, Marshfield - Angiosarcoma
Wisconsin (Meriter Hospital) - Angiosarcoma
Australia (North Queensland Pathology Group) - Angiosarcoma
Australia (Royal Hobart Hospital) - Angiosarcoma
Australia (Royal Prince Alfred Hospital) - Angiosarcoma
Australia (Sullivan Nicolaides Pathology) - Angiosarcoma
Canada (Pasqua Hospital) - Angiosarcoma
Germany (UKE, Kerminstitut fur Pathologie) - Angiosarcoma
Ireland (Kerry General Hospital) - Epithelioid angiosarcoma
Jamaica (The University of the West Indies) - Angiosarcoma
Japan (Kyoto University Hospital) - Angiosarcoma
Monterey Park (Monterey Peninsula Pathologists) - Angiosarcoma
New Zealand (Otago Diagnostic Laboratories) - Angiosarcoma
Oman (Khoula Hospital) - Angiosarcoma (epithelioid type)
Qatar (Hamad Medical Corporation) - Angiosarcoma with epithelioid features
Saudi Arabia (King Fahad National Guard Hospital) - Angiosarcoma, high grade

Case 6 - Diagnosis:

Epithelioid angiosarcoma (polypoid), small bowel
T-64000, M-91203

Case 6 - References:

Xu H, Edwards JR, Espinosa O, et al. Expression of Lymphatic Endothelial Cell Marker in Benign and Malignant Vascular Tumors. *Hum Pathol* 2004; 35:857-861.
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Jeon YK, Kim HW, Cho HJ, et al. Fine Needle Aspiration Cytology of Epithelioid Angiosarcoma. Report of a Case with Nuclear Grooves and Indentations. *Acta Cytol* 2004; 48(2):223-228.
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Xu H, Edwards JR, Espinosa O, Banerji S, Jackson DG, et al. Expression of a Lymphatic Endothelial Cell Marker in Benign and Malignant Vascular Tumors. *Hum Pathol* 2004; 35(7):857-861.

Case No. 7, Accession No. 29265 April 2006

Alameda (Garfield Medical Center) - Low grade liposarcoma
Baldwin Park (Kaiser Permanente) - Well-differentiated sclerosing liposarcoma (3)
Fontana (Kaiser Permanente Hospital) - Well-differentiated liposarcoma
Fresno (St. Agnes Medical Center) - Well-differentiated liposarcoma
Glendale - Well-differentiated liposarcoma
Hayward/Fremont (St. Rose Hospital) - Liposarcoma, high grade
Irvine (University of California Irvine) - Well-differentiated liposarcoma
Long Beach (Lakewood Regional Medical Center) - Well-differentiated liposarcoma (8)
Mountain View (El Camino Pathology) - Liposarcoma, low grade
Orange (Orange County Medical Group) - Atypical lipomatous tumor
Oxnard (St. John's Regional Medical Center) - Lipoma (4)

Sacramento (UC Davis) - Well-differentiated liposarcoma
San Diego (Naval Medical Center) - Well-differentiated liposarcoma (2)
San Francisco (San Francisco General Hospital) - Well-differentiated liposarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Well-differentiated liposarcoma (3)
Woodland Hills (Kaiser Permanente Medical Center) - Well-differentiated liposarcoma
Arkansas (UAMS) - Well-differentiated liposarcoma, retroperitoneum
Arizona, Oro Valley - Atypical lipomatous tumor, well-differentiated liposarcoma
Florida (Jackson Memorial Hospital) - Well-differentiated liposarcoma
Florida (Munroe Regional Medical Center) - Well-differentiated liposarcoma
Florida, Tallahassee - Well-differentiated liposarcoma
Florida (Winter Haven Hospital) - Atypical lipomatous tumor
Illinois, Burr Ridge - Atypical lipoma
Illinois (Loyola University Medical Center) - Liposarcoma
Illinois (Naval Hospital Great Lakes) - Well-differentiated liposarcoma
Indiana (Kokamo Pathologist Health System) - Fibrolipoma
Maryland (Northwest Hospital Center) - Well-differentiated liposarcoma
Maryland (University of Maryland) - Well-differentiated liposarcoma
Michigan, Kalamazoo - Well-differentiated liposarcoma
Michigan (Oakwood Hospital) - Well-differentiated liposarcoma
Nebraska (Creighton University School of Medicine) - Well-differentiated liposarcoma
New York (Nassau University Medical Center) - Lipoblastoma
New York (New York Stony Brook University Hospital Residents) - Well-differentiated liposarcoma
New York (SUNY Downstate Residents) - Liposarcoma, well-differentiated
New York (Westchester Medical Center) - Well-differentiated liposarcoma
North Carolina (Mountain Area Pathology) - Liposarcoma, well-differentiated (5)
North Carolina (Presbyterian Hospital) - Well-differentiated liposarcoma (2)
Ohio (McCullough-Hyde Memorial Hospital) - Atypical lipoma
Pennsylvania (Allegheny General Hospital) - Well-differentiated liposarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Well-differentiated liposarcoma
Pennsylvania (Drexel University College of Medicine) - Well-differentiated liposarcoma
Pennsylvania (Lehigh Valley Hospital) - Well-differentiated liposarcoma
Pennsylvania (Mt. Nittany Medical Center) - Well-differentiated liposarcoma, retroperitoneum
Pennsylvania (Pennsylvania Hospital Residents) - Well-differentiated liposarcoma
Puerto Rico (University of Puerto Rico) - Well-differentiated liposarcoma
Texas, Dallas - Well-differentiated liposarcoma
Texas (Lackland AFB) - Well-differentiated liposarcoma
Texas, Lubbock - Liposarcoma
Texas (Scott & White Memorial Hospital) - Well-differentiated liposarcoma
Texas (University of Texas) - Well-differentiated liposarcoma
West Virginia (Greenbrier Valley Medical Center) - Atypical lipomatous tumor
West Virginia (Wetzel County Hospital) - Myxofibroma
Wisconsin (Pathology Associates of Wisconsin) - Well-differentiated liposarcoma
Wisconsin, Marshfield - Liposarcoma
Wisconsin (Meriter Hospital) - Liposarcoma
Australia (North Queensland Pathology Group) - Atypical lipomatous tumor/well-differentiated liposarcoma
Australia (Royal Hobart Hospital) - Atypical lipomatous tumor (well-differentiated liposarcoma)
Australia (Royal Prince Alfred Hospital) - Well-differentiated liposarcoma
Australia (Sullivan Nicolaides Pathology) - Well-differentiated liposarcoma
Canada (Pasqua Hospital) - Well-differentiated liposarcoma
Germany (UKE, Kerminstitut fur Pathologie) - Well-differentiated liposarcoma
Ireland (Kerry General Hospital) - Well-differentiated liposarcoma
Jamaica (The University of the West Indies) - Liposarcoma, well-differentiated
Japan (Kyoto University Hospital) - Liposarcoma, well-differentiated
Monterey Park (Monterey Peninsula Pathologists) - Well-differentiated liposarcoma/atypical lipoma
New Zealand (Otago Diagnostic Laboratories) - Well-differentiated liposarcoma
Oman (Khoula Hospital) - Well-differentiated liposarcoma
Qatar (Hamad Medical Corporation) - Well-differentiated liposarcoma
Saudi Arabia (King Fahad National Guard Hospital) - Well-differentiated liposarcoma

Case 7 - Diagnosis:

Well-differentiated, lipoma-like liposarcoma, retroperitoneum
T-Y4600, M-88513

Directors Note: In the retroperitoneum, atypical lipomatous neoplasms should be given a "sarcoma" designation. (drc)

Case 7 - References:

Gronchi A, Casali PG, Fiore M, Mariani L, et al. Retroperitoneal Soft Tissue Sarcomas. Patterns of Recurrence in 167 Patients Treated at a Single Institution. *Cancer* 2004; 100(11):2448-2455.

Shimoji T, Kanda H, Kitagawa T, et al. Clinico-Molecular Study of Dedifferentiation in Well-Differentiated Liposarcomas. *Biochem Biophys Res Commun* 2004; 314(4):1133-1140.

Neuhaus SJ, Barry P, Clark ME, et al. Surgical Management of Primary and Recurrent Retroperitoneal Liposarcoma. *Br J Surg* 2005; 92(2):246-252.

Monjazeb A, Stanton C and Levine EA. Intussusception Secondary to Metastasis from a Low-Grade retroperitoneal Liposarcoma. *Am Surg* 2004; 70(9):775-778.

Singer S, Antonescu CR, Riedel E, et al. Histologic Subtype and Margin of Resection Predict Pattern of Recurrence and Survival for Retroperitoneal Liposarcoma. *Ann Surg* 2003; 238(3):358-370.

Antinori A, Antonacci V and Magistrelli P. Giant Retroperitoneal Liposarcoma. *Am J Surg* 2002; 184(1):56-57.

Case No. 8, Accession No. 29416 April 2006

Alameda (Garfield Medical Center) - Spindle cell sarcoma
Baldwin Park (Kaiser Permanente) - Round cell liposarcoma (2); High grade liposarcoma (1)
Fontana (Kaiser Permanente Hospital) - Myxoid and round cell liposarcoma
Fresno (St. Agnes Medical Center) - Mesenchymal neoplasm ?? need IPOX stains
Glendale - Round cell liposarcoma
Hayward/Fremont (St. Rose Hospital) - Liposarcoma, high grade
Irvine (University of California Irvine) - Round cell liposarcoma
Long Beach (Lakewood Regional Medical Center) - Extraskeletal myxoid chondrosarcoma (4); Myxoid liposarcoma (4)
Mountain View (El Camino Pathology) - Ewings sarcoma/PNET
Orange (Orange County Medical Group) - Metastatic sarcoma
Oxnard (St. John's Regional Medical Center) - Liposarcoma myxoid ? (1); Fibromyxoid sarcoma (1); Liposarcoma, myxoid type (1); Fibromyxoid sarcoma, variant with giant rosettes (1)
Sacramento (UC Davis) - Myxoid liposarcoma
San Diego (Naval Medical Center) - Myxoid/round cell liposarcoma, metastatic (1); Metastatic myxoid/round cell liposarcoma (1); Extraskeletal myxoid chondrosarcoma (1)
San Francisco (San Francisco General Hospital) - Thymoma
Santa Rosa (Santa Rosa Memorial Hospital) - Myxoid sarcoma, NOS (2) Myxoid/round cell liposarcoma (1)
Woodland Hills (Kaiser Permanente Medical Center) - Myxoid/round cell liposarcoma (metastatic)
Arkansas (UAMS) - Myxoid liposarcoma with round cell differentiation, metastatic to mediastinum
Arizona, Oro Valley - Metastatic myxoid liposarcoma
Florida (Jackson Memorial Hospital) - Metastatic myxoid liposarcoma
Florida (Munroe Regional Medical Center) - Liposarcoma, round cell type
Florida, Tallahassee - Mixed myxoid and round cell liposarcoma
Florida (Winter Haven Hospital) - Mesenchymal chondrosarcoma
Illinois, Burr Ridge - Liposarcoma
Illinois (Loyola University Medical Center) - Round cell liposarcoma
Illinois (Naval Hospital Great Lakes) - Round cell myxoid liposarcoma
Indiana (Kokamo Pathologist Health System) - Myxoid liposarcoma
Maryland (Northwest Hospital Center) - Myxoid/round cell liposarcoma
Maryland (University of Maryland) - Well-differentiated small round cell tumor
Michigan, Kalamazoo - Small round blue cell tumor
Michigan (Oakwood Hospital) - Myxoid liposarcoma
Nebraska (Creighton University School of Medicine) - Extraskeletal myxoid chondrosarcoma
New York (Nassau University Medical Center) - Extraskeletal myxoid chondrosarcoma
New York (New York Stony Brook University Hospital Residents) - Round cell liposarcoma
New York (SUNY Downstate Residents) - Myxoid liposarcoma
New York (Westchester Medical Center) - Round cell liposarcoma
North Carolina (Mountain Area Pathology) - Round cell liposarcoma (3); Round cell liposarcoma, myxoid (1); Myxoid chondrosarcoma (1)

North Carolina (Presbyterian Hospital) - Myxoid round cell liposarcoma (2)
Ohio (McCullough-Hyde Memorial Hospital) - Myxoid liposarcoma
Pennsylvania (Allegheny General Hospital) - Extraskeletal chondromyxoid sarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Myxoid liposarcoma, round cell type
Pennsylvania (Drexel University College of Medicine) - Myxoid fibrosarcoma
Pennsylvania (Lehigh Valley Hospital) - Chondrosarcoma
Pennsylvania (Mt. Nittany Medical Center) - Metastatic myxoid/round cell liposarcoma, mediastinum
Pennsylvania (Pennsylvania Hospital Residents) - Myxoid liposarcoma
Puerto Rico (University of Puerto Rico) - Metastatic liposarcoma
Texas, Dallas - Myxoid liposarcoma
Texas (Lackland AFB) - Myxoid and round cell liposarcoma
Texas, Lubbock - Liposarcoma
Texas (Scott & White Memorial Hospital) - Myxoid/round cell liposarcoma, metastatic
Texas (University of Texas) - Myxoid liposarcoma, metastatic
West Virginia (Greenbrier Valley Medical Center) - Pleomorphic liposarcoma
West Virginia (Wetzel County Hospital) - Metastatic alveolar rhabdomyosarcoma
Wisconsin (Pathology Associates of Wisconsin) - Sarcoma, NOS
Wisconsin, Marshfield - Liposarcoma
Wisconsin (Meriter Hospital) - Round cell liposarcoma
Australia (North Queensland Pathology Group) - Sarcoma ? metastatic small cell variety of osteosarcoma ? myxoid liposarcoma
Australia (Royal Hobart Hospital) - Myxoid/round cell liposarcoma
Australia (Royal Prince Alfred Hospital) - Round cell liposarcoma ? (metastatic)
Australia (Sullivan Nicolaides Pathology) - Myxoid liposarcoma
Canada (Pasqua Hospital) - Myxoid/round cell liposarcoma
Germany (UKE, Kerminstitut fur Pathologie) - Chondrosarcoma
Ireland (Kerry General Hospital) - Myxoid/round cell liposarcoma
Jamaica (The University of the West Indies) - Angiosarcoma
Japan (Kyoto University Hospital) - Small round cell tumor r/o metastatic small cell osteosarcoma
Monterey Park (Monterey Peninsula Pathologists) - Metastatic extraskeletal myxoid chondrosarcoma
New Zealand (Otago Diagnostic Laboratories) - Myxoid liposarcoma
Oman (Khoula Hospital) - Metastatic myxoid liposarcoma
Qatar (Hamad Medical Corporation) - Myxoid liposarcoma
Saudi Arabia (King Fahad National Guard Hospital) - Myxoid/round cell liposarcoma

Case 8 - Diagnosis:

Myxoid/round cell liposarcoma, mediastinum
T-Y2300, M-88533

Case 8 – References:

Antonescu CR, Elahi A, Humphrey M, Lui MY, et al. Specificity of TLS-CHOP Rearrangement for Classic Myxoid/Round Cell Liposarcoma. Absence in Predominantly Myxoid Well-Differentiated Liposarcomas. *J Mol Diagn* 2000; 2(3):132-138.
Zelger B. Connective Tissue Tumors. *Recent Results Cancer Res* 2002; 160:343-350.
Orvieto E, Furlanetto A, Laurino L, et al. Myxoid and Round Cell Liposarcoma. A Spectrum of Myxoid Adipocytic Neoplasm. *Semin Diagn Pathol* 2001; 18(4):267-273.

Case No. 9, Accession No. 30057 and #29969 April 2006

Alameda (Garfield Medical Center) - Malignant fibrous histiocytoma
Baldwin Park (Kaiser Permanente) - Myxoid liposarcoma (3)
Fontana (Kaiser Permanente Hospital) - Myxofibrosarcoma
Fresno (St. Agnes Medical Center) - Proliferative myositis
Glendale - Myxoid malignant fibrous histiocytoma
Hayward/Fremont (St. Rose Hospital) - Pleomorphic sarcoma, NOS aka MFH (myxoid DFSP, AFX)
Irvine (University of California Irvine) - Myxoid liposarcoma
Long Beach (Lakewood Regional Medical Center) - Myxoid liposarcoma (8)
Mountain View (El Camino Pathology) - Myxoid liposarcoma
Oxnard (St. John's Regional Medical Center) - Myxoid liposarcoma (2); Fibrosarcoma (1); Fibromyxoid sarcoma, low grade (1)
Sacramento (UC Davis) - Malignant fibrous histiocytoma
San Diego (Naval Medical Center) - Myxofibrosarcoma (myxoid malignant fibrous histioctyoma) (1); Low grade fibromyxoid sarcoma (1);

San Francisco (San Francisco General Hospital) - Elastofibroma
Santa Rosa (Santa Rosa Memorial Hospital) - Myxoid liposarcoma (1); Myxoid malignant fibrous histiocytoma (1); Atypical lipoma/vs. well-differentiated liposarcoma (1)
Woodland Hills (Kaiser Permanente Medical Center) - Myxoid malignant fibrous histiocytoma
Arkansas (UAMS) - Pleomorphic sarcoma (MFH), forearm
Arizona, Oro Valley - Malignant fibrous histiocytoma, myxoid variant
Florida (Jackson Memorial Hospital) - Undifferentiated high grade pleomorphic sarcoma (malignant fibrous histiocytoma)
Florida (Munroe Regional Medical Center) - Myxoid liposarcoma
Florida, Tallahassee - Malignant peripheral nerve sheath tumor
Florida (Winter Haven Hospital) - Embryonal rhabdomyosarcoma
Illinois, Burr Ridge - Malignant peripheral nerve sheath tumor
Illinois (Loyola University Medical Center) - Myxoid malignant fibrous histiocytoma
Illinois (Naval Hospital Great Lakes) - Myxofibrosarcoma
Indiana (Kokamo Pathologist Health System) - Myxofibrosarcoma
Maryland (Northwest Hospital Center) - Low grade fibromyxoid sarcoma
Maryland (University of Maryland) - Myxoid liposarcoma
Michigan, Kalamazoo - Myxoid liposarcoma
Michigan (Oakwood Hospital) - Malignant peripheral nerve sheath tumor
Nebraska (Creighton University School of Medicine) - Pleomorphic rhabdomyosarcoma vs. myxoid malignant fibrous histiocytoma (1)
New York (Nassau University Medical Center) - Pleomorphic rhabdomyosarcoma
New York (New York Stony Brook University Hospital Residents) - Myxoid malignant fibrous histiocytoma
New York (SUNY Downstate Residents) - Myxoid sarcoma vs. myxoliposarcoma vs. fibrosarcoma, myxoid
New York (Westchester Medical Center) - Dedifferentiated liposarcoma
North Carolina (Mountain Area Pathology) - Malignant fibrous histiocytoma, myxoid type (1); Myxoid pleomorphic sarcoma, malignant fibrous histiocytoma (1); Myxofibrosarcoma, high grade (myxoid malignant fibrous histiocytoma) (1) High grade pleomorphic sarcoma (MFH) (1); Myxoid MFH/myxofibrosarcoma (1)
North Carolina (Presbyterian Hospital) - Myxoliposarcoma (2)
Ohio (McCullough-Hyde Memorial Hospital) - Myxoid neurofibroma
Pennsylvania (Allegheny General Hospital) - Low grade myxofibrosarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Myxofibrosarcoma
Pennsylvania (Drexel University College of Medicine) - Malignant fibrous histiocytoma
Pennsylvania (Lehigh Valley Hospital) - Myxoid liposarcoma
Pennsylvania (Mt. Nittany Medical Center) - Myxoid schwannoma
Pennsylvania (Pennsylvania Hospital Residents) - Malignant fibrous histiocytoma
Puerto Rico (University of Puerto Rico) - Pleomorphic liposarcoma
Texas, Dallas - Malignant fibrous histiocytoma
Texas (Lackland AFB) - Myxofibrosarcoma (myxoid MFH)
Texas, Lubbock - Malignant neurilemmoma
Texas (Scott & White Memorial Hospital) - High grade pleomorphic sarcoma
Texas (University of Texas) - Low grade fibromyxoid sarcoma
West Virginia (Greenbrier Valley Medical Center) - Spindle cell lipoma
West Virginia (Wetzel County Hospital) - Lipomyosarcoma
Wisconsin (Pathology Associates of Wisconsin) - Myxoid malignant fibrous histiocytoma
Wisconsin, Marshfield - Liposarcoma
Wisconsin (Meriter Hospital) - Myxoid liposarcoma
Australia (North Queensland Pathology Group) - Proliferative myositis
Australia (Royal Hobart Hospital) - High grade myxofibrosarcoma
Australia (Royal Prince Alfred Hospital) - Myxofibrosarcoma
Australia (Sullivan Nicolaides Pathology) - Sarcoma (spindle cell), NOS
Canada (Pasqua Hospital) - Myxofibrosarcoma
Germany (UKE, Kerminstitut fur Pathologie) - Low grade fibromyxoid sarcoma
Ireland (Kerry General Hospital) - Myxofibrosarcoma
Jamaica (The University of the West Indies) - Myxofibrosarcoma, low grade fibromyxoid sarcoma
Japan (Kyoto University Hospital) - Pleomorphic, spindle and myxoid, sarcoma r/o dedifferentiated liposarcoma
Monterey Park (Monterey Peninsula Pathologists) - Malignant fibrous histiocytoma sarcoma, r/o melanoma
New Zealand (Otago Diagnostic Laboratories) - Myxoid liposarcoma ??
Oman (Khoula Hospital) - Dedifferentiated liposarcoma
Qatar (Hamad Medical Corporation) - Pleomorphic liposarcoma
Saudi Arabia (King Fahad National Guard Hospital) - High grade spindle cell sarcoma

Case 9 - Diagnosis:

Myxofibrosarcoma/myxoid MFH, thigh
T-Y9100, M-88103

Case 9 – References:

Huang HY, Lal P, Qin JG, et al. Low-Grade Myxofibrosarcoma. A Clinicopathologic Analysis of 49 Cases Treated at a Single Institution with Simultaneous Assessment of the Efficiancy of 3 Tier and 4 Tier Grading Systems. *Hum Pathol* 2004; 35(5):612-621.

Fukunaga M and Fukunaga N. Low-Grade Myxofibrosarcoma. Progression in Recurrence. *Pathol Int* 1997; 47(2-3):161-165.

Oda Y, Takahira T, Kawaguchi K, Yamamoto H, et al. Low-Grade Fibromyxoid Sarcoma vs. Low-Grade Myxofibrosarcoma in the Extremities. A Comparison of Clinicopathological and Immunohistochemical Features. *Histopathol* 2004; 45(1):29-38.

Soilleux EJ, Rous B, Love K, et al. Myxofibrosarcomas Contain Large Numbers of Infiltrating Immature Dendritic Cells. *Am J Clin Pathol* 2003; 119(4):540-545.

Huang HY, Lal P, Qin J, et al. Low-Grade Myxofibrosarcoma. A Clinicopathologic Analysis of 49 Cases Treated at a Single Institution with Simultaneous Assessment of the Efficacy of 3-Tier and 4-Tier Grading System. *Hum Pathol* 2004; 35(5):612-621.

Case No. 10, Accession No. 29990 April 2006

Alameda (Garfield Medical Center) - Malignant fibrous histiocytoma
Baldwin Park (Kaiser Permanente) - High grade leiomyosarcoma vs. malignant fibrous histiocytoma (2); Malignant fibrous histiocytoma (1)
Fontana (Kaiser Permanente Hospital) - Malignant fibrous histiocytoma vs. pleomorphic/dedifferentiated liposarcoma
Fresno (St. Agnes Medical Center) - Malignant fibrous histiocytoma
Glendale - Pleomorphic leiomyosarcoma
Hayward/Fremont (St. Rose Hospital) - Pleomorphic sarcoma, NOS aka malignant fibrous histiocytoma
Irvine (University of California Irvine) - Pleomorphic sarcoma
Long Beach (Lakewood Regional Medical Center) - High grade sarcoma (8)
Mountain View (El Camino Pathology) - Malignant fibrous histiocytoma, giant cell type
Orange (Orange County Medical Group) - Malignant fibrous histiocytoma
Oxnard (St. John's Regional Medical Center) - Malignant fibrous histiocytoma (4)
Sacramento (UC Davis) - Myxoid fibrosarcoma
San Diego (Naval Medical Center) - High grade sarcoma (pleomorphic –storiform malignant fibrous histiocytoma) (1); Pleomorphic malignant fibrous histiocytoma (1)
San Francisco (San Francisco General Hospital) - Malignant fibrous histiocytoma
Santa Rosa (Santa Rosa Memorial Hospital) - Malignant fibrous histiocytoma (1); Malignant fibrous histiocytoma, storiform-pleomorphic type (1); Fibroxanthosarcoma (1)
Woodland Hills (Kaiser Permanente Medical Center) - High grade sarcoma, favor malignant fibrous histiocytoma ? leiomyosarcoma
Arkansas (UAMS) - Pleomorphic sarcoma, malignant fibrous histiocytoma, thigh
Arizona, Oro Valley - Malignant fibrous histiocytoma, giant cell variant
Florida (Jackson Memorial Hospital) - Undifferentiated pleomorphic sarcoma with giant cells
Florida (Munroe Regional Medical Center) - Leiomyosarcoma
Florida, Tallahassee - Malignant fibrous histiocytoma
Florida (Winter Haven Hospital) - Malignant fibrous histiocytoma
Illinois, Burr Ridge - Malignant fibrous histiocytoma
Illinois (Loyola University Medical Center) - Pleomorphic malignant fibrous histiocytoma
Illinois (Naval Hospital Great Lakes) - Giant cell malignant fibrous histiocytoma
Indiana (Kokamo Pathologist Health System) - Malignant fibrous histiocytoma
Maryland (Northwest Hospital Center) - Undifferentiated pleomorphic sarcoma with giant cells
Maryland (University of Maryland) - Malignant fibrous histiocytoma
Michigan, Kalamazoo - Malignant fibrous histiocytoma
Michigan (Oakwood Hospital) - High grade pleomorphic sarcoma
Nebraska (Creighton University School of Medicine) - Malignant fibrous histiocytoma
New York (Nassau University Medical Center) - Malignant fibrous histiocytoma, osteoclastic
New York (New York Stony Brook University Hospital Residents) - Malignant fibrous histiocytoma
New York (SUNY Downstate Residents) - Pleomorphic, giant cell malignant fibrous histiocytoma
New York (Westchester Medical Center) - Pleomorphic sarcoma
North Carolina (Mountain Area Pathology) - Malignant fibrous histiocytoma (1); Pleomorphic sarcoma (MFH) (1); High grade fibrosarcoma (MFH) (1); High grade pleomorphic sarcoma (MFH) (1); Pleomorphic rhabdomyosarcoma (1)
North Carolina (Presbyterian Hospital) - Pleomorphic sarcoma (1); Pleomorphic sarcoma/rhabdo vs. smooth muscle origin (1)

Ohio (McCullough-Hyde Memorial Hospital) - Malignant fibrous histiocytoma
Pennsylvania (Allegheny General Hospital) - High grade sarcoma consistent with osteoclasts (MFH)
Pennsylvania (Conemaugh Memorial Medical Center) - Undifferentiated high grade pleomorphic sarcoma/pleomorphic malignant fibrous histiocytoma
Pennsylvania (Lehigh Valley Hospital) - Malignant fibrous histiocytoma
Pennsylvania (Mt. Nittany Medical Center) - Malignant fibrous histiocytoma, left thigh
Pennsylvania (Pennsylvania Hospital Residents) - Pleomorphic rhabdosarcoma
Puerto Rico (University of Puerto Rico) - Pleomorphic sarcoma/malignant fibrous histiocytoma
Texas, Dallas - Malignant fibrous histiocytoma with giant cells
Texas (Lackland AFB) - Pleomorphic high grade sarcoma (giant cell rich MFH)
Texas, Lubbock - Leiomyosarcoma
Texas (Scott & White Memorial Hospital) - High grade pleomorphic sarcoma
Texas (University of Texas) - Malignant fibrohistiocytoma (MFH)
West Virginia (Greenbrier Valley Medical Center) - Malignant fibrous histiocytoma
West Virginia (Wetzel County Hospital) - Malignant fibrous histiocytoma
Wisconsin (Pathology Associates of Wisconsin) - Storiform/pleomorphic malignant fibrous histiocytoma
Wisconsin, Marshfield - Malignant fibrous histiocytoma
Wisconsin (Meriter Hospital) - Malignant fibrous histiocytoma
Australia (North Queensland Pathology Group) - Malignant spindle cell tumor/pleomorphic malignant fibrous histiocytoma
Australia (Royal Hobart Hospital) - High grade sarcoma/malignant fibrous histiocytoma appearance
Australia (Royal Prince Alfred Hospital) - Undifferentiated spindle cell sarcoma
Australia (Sullivan Nicolaides Pathology) - Malignant fibrous histiocytoma
Canada (Pasqua Hospital) - Leiomyosarcoma
Germany (UKE, Kerminstitut fur Pathologie) - Malignant fibrous histiocytoma
Ireland (Kerry General Hospital) - Sarcoma ? leiomyosarcoma
Jamaica (The University of the West Indies) - Malignant fibrous histiocytoma
Japan (Kyoto University Hospital) - Pleomorphic sarcoma, high grade, rule out pleomorphic leiomyosarcoma
Monterey Park (Monterey Peninsula Pathologists) - Malignant fibrous histiocytoma sarcoma
New Zealand (Otago Diagnostic Laboratories) - Malignant fibrous histiocytoma
Oman (Khoula Hospital) - Malignant spindle cell tumor, malignant fibrous histiocytoma (2)
Qatar (Hamad Medical Corporation) - Malignant fibrous histiocytoma
Saudi Arabia (King Fahad National Guard Hospital) - Pleomorphic sarcoma

Case 10 - Diagnosis:

Pleomorphic sarcoma (aka "MFH"), thigh
T-Y9100, M-88303

Case 10 - References:

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Meister P. Malignant Fibrous Histiocytoma. Pleomorphic Sarcoma NOS or Pleomorphic Fibrosarcoma. *Pathologe* 2005 (Germany) 26(2):127-133.
Daw NC, Billups CA, Pappo AS, et al. Malignant fibrous Histiocytoma and Other Fibrohistiocytic Tumors in Pediatric Patients. The St. Jude Children's Research Hospital Experience. *Cancer* 2003; 97(11):2839-2847.
Oda Y, Tamiya S, Oshiro Y, et al. Reassessment and Clinicopathological Prognostic Factors of Malignant Fibrous Histiocytoma of Soft Parts. *Pathol Int* (Australia) 2002; 52(9):595-606.
Shinozaki T, Kato K, Watanabe H, et al. Discriminant Analysis of Prognostic Factors for Malignant Fibrous Histiocytoma in Soft Tissue. *J Orthop Sci* 2001; 6(4):339-342.