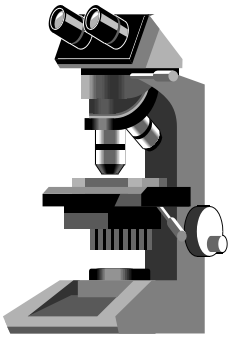
CALIFORNIA
TUMOR TISSUE REGISTRY

SOFT TISSUE PATHOLOGY

Minutes – Subscription A

January, 2007



SUGGESTED READING (General Topics from Recent Literature):

Misidentified Lab Specimens May Lead to Severe Patient Injury. Valenstein PN, Raab SS and Walsh MK. *Arch Pathol Lab Med* 2006; 130:1106-1113.
Extranodal FDC Sarcoma Is Under-Recognized. Shia J, Chen W, et al. *Virchows Arch* 2006; 449:148-158.
Breast Cancers With Brain Metastases: Do They Have a Unique Profile? Hicks DG, Short SM, et al. *Am J Surg Pathol* 2006; 30:1097-1104.
Should More Autopsies Be Done? Nemetz PN, Tangalos E, et al. *Med Gen Med eJournal* 2006; 8:80.
Necosis in TCC Predicts Survival. Langner C, Hutterer G, et al. *J Urol* 2006; 176:910-914.

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 January, 2007

Case 1:
Nodular fasciitis, thigh
T-Y9100, M-76130

Case 2:
Ischemic fasciitis
T-Y1500, M-76130

Case 3:
Giant lipoblastoma, chest wall
T-Y2100, M-88810

Case 4:
Atypical lipomatous tumor/well-differentiated lipoma-like liposarcoma, thigh
T-Y9100, M-88503

Case 5:
Well-differentiated liposarcoma, retroperitoneum
T-Y4600, M-88513

Case 6:
Dedifferentiated liposarcoma, retroperitoneum
T-Y4600, M-88503

Case 7:
Myxoid liposarcoma, leg
T-Y9400, M-83523

Case 8:
Myxoid liposarcoma
T-71000, M-88523

Case 9:
Leiomyosarcoma, kidney
T-71000, M-88903

Case 10:
Embryonal rhabdomyosarcoma, testis
T-78000, M-89003

Case No. 1, Accession No. 30134 **January 2007**

Alameda (Alameda County Medical Center) - Nodular fasciitis
Arcadia (Garfield Medical Center) - Nodular fasciitis
Chico - Nodular fasciitis with adjacent fat necrosis
Fontana (Kaiser Permanente) - Nodular fasciitis
Glendale - Nodular fasciitis
Granada Hills - Atrial myxoma
Hayward/Fremont (St. Rose Hospital) - Nodular fasciitis
Irvine (University of California Irvine) - Nodular fasciitis
Long Beach - Nodular fasciitis
Monterey (Community Hospital of Monterey Peninsula) - Nodular fasciitis
Oakland - Cellular angiolipoma
Orange (Orange County Pathology) - Benign reactive lesion
Sacramento (UC Davis Residents) - Nodular fasciitis
San Diego (Naval Medical Center) - Nodular fasciitis
San Diego (Scripps Health) - Nodular fasciitis
San Diego (UCSD Medical Center) - Nodular fasciitis
San Francisco (San Francisco General Hospital) - Nodular fasciitis
San Francisco (UCSF Residents) - Nodular fasciitis
Santa Barbara - Leiomyoma
Santa Rosa (Santa Rosa Memorial Hospital) - Nodular fasciitis (3)
Woodland Hills (Kaiser Permanente) - Nodular fasciitis
Woodland Hills (Suda's Soldiers) - Nodular fasciitis
Arkansas (University of Arkansas) - Nodular fasciitis, thigh
Florida (Munroe Regional Medical Center) - Nodular fasciitis
Florida (Winter Haven) - Nodular fasciitis
Illinois (Heartland Regional Medical Center) - Nodular fasciitis
Illinois (Loyola University of Chicago) - Nodular fasciitis
Illinois (MacNeal Hospital) - Nodular fasciitis (2)
Indiana (Howard Regional Medical Center) - Spindle cell lipoma
Louisiana (Louisiana State University Health Science Center) - Nodular fasciitis
Massachusetts (Berkshire Medical Center) - Nodular fasciitis
Massachusetts (University of Massachusetts) - Nodular fasciitis
Maryland (Northwest Hospital) - Nodular fasciitis
sMaryland (University of Maryland) - Nodular fasciitis
Minnesota (Fairview Ridges Hospital) - Nodular fasciitis
Montana (Forensic Science Division) - Nodular fasciitis
New Mexico (University of New Mexico) - Nodular fasciitis
New York (Long Island Jewish Medical Center) - Nodular fasciitis
New York (Nassau University Medical Center) - Dedifferentiated liposarcoma
New York (NY Stony Brook University Medical Center Residents) - Low grade fibromyxoid sarcoma
New York (SUNY Stony Brook) - Nodular fasciitis
Oklahoma (Heartland Pathology Consultants) - Nodular fasciitis
Oklahoma, Tulsa - Solitary fibrous tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Nodular fasciitis
Pennsylvania (Drexel University College of Medicine) - Nodular fasciitis
Pennsylvania (Lehigh Valley Hospital) - Nodular fasciitis
Pennsylvania (Mt. Nittany Medical Center) - Fibromatosis, thigh
Pennsylvania (Pennsylvania Hospital Residents) - Nodular fasciitis
Puerto Rico (University of Puerto Rico) - Nodular fasciitis
South Dakota (University of South Dakota) - Inflammatory myofibroblastic tumor
Tennessee, Kingsport - Nodular fasciitis
Texas , Lubbock - Dermatofibrosarcoma protuberans
Texas (Scott & White Memorial Hospital) - Nodular fasciitis
Washington (Madigan Army Medical Center) - Nodular fasciitis
West Virginia (Greenbrier Valley Medical Center) - Low grade fibromyxoid sarcoma
West Virginia (Wetzel County Hospital) - Nodular fasciitis
Australia (Royal Hobart Hospital) - Nodular fasciitis
Australia (Royal Prince Alfred Hospital) - Nodular fasciitis
Australia (Sullivan Nicolaides Pathology) - Nodular fasciitis
Canada (Pasqua Hospital) - Nodular fasciitis
Canada (Sherbrooke University Hospital) - Nodular fasciitis (2); Acral myxoinflammatory fibroblastic sarcoma (1)

Germany (UKE Hamburg) - Urothelial carcinoma
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Nodular fasciitis
India , Karnataka - Nodular fasciitis
Ireland (Kerry General Hospital) - Nodular fasciitis
Jamaica (The University of West Indies) - Nodular fasciitis
Japan (Kyoto University Hospital) - Nodular fasciitis
Qatar (Hamad Medical Corporation) - Nodular fasciitis
Saudi Arabia (King Fahad National Guard Hospital) - Nodular fasciitis
Singapore (KK Women's & Childrens Hospital) - Nodular fasciitis
United Kingdom (Oxford Study Group) - Nodular fasciitis, thigh

Case 1 - Diagnosis:

Nodular fasciitis, thigh
T-Y9100, M-76130

Consultation: Andrew L. Folpe, M.D., Emory University. "Nodular fasciitis."

Case 1 – References:

Zuber TJ and Finley JL. Nodular Fasciitis. *South Med J* 1994; 87(8):842-844.
Stanley MW, Skoog L, Tani EM, et al. Nodular Fasciitis. Spontaneous Resolution Following Diagnosis By Fine-Needle Aspiration. *Diag Cytopathol* 1993 9(3):322-324.
Meyer CA, Kransdorf MJ, Jelinek JS, et al. MR and CT Appearance of Nodular Fasciitis. *J Comput Assist Tomogr* 1991; 15(2):276-279.
Shimizu S, Hashimoto H and Enjoji M. Nodular Fasciitis. An Analysis of 250 Patients. *Pathol* 1984; 16(2):161-166.

Case No. 2, Accession No. 30523 January 2007

Alameda (Alameda County Medical Center) - Intramuscular lipoma
Arcadia (Garfield Medical Center) - Extra-abdominal desmoid
Chico - Ischemic fasciitis (atypical decubital fibroplasias)
Fontana (Kaiser Permanente) - Atypical decubitus fibroplasias
Glendale - Proliferative fasciitis
Granada Hills - Angiomyolipoma
Hayward/Fremont (St. Rose Hospital) - Ischemic fasciitis
Irvine (University of California Irvine) - Benign vascular proliferation favor angiomyofibroblastoma
Long Beach - Tendon fibroma; Pigmented villonodular synovitis (1)
Monterey (Community Hospital of Monterey Peninsula) - Desmoplastic fibroblastoma
Oakland - Fibromatosis/tendon sheath tumor
Orange (Orange County Pathology) - Atypical lipoma
Sacramento (UC Davis Residents) - Hemangioma
San Diego (Naval Medical Center) - Low grade fibromyxoid sarcoma
San Diego (Scripps Health) - Intramuscular lipoma
San Diego (UCSD Medical Center) - Ischemic fasciitis
San Francisco (San Francisco General Hospital) - Intramuscular hemangioma
San Francisco (UCSF Residents) - Ischemic fasciitis
Santa Barbara - Sclerosing hemangioma
Santa Rosa (Santa Rosa Memorial Hospital) - Benign fibrosis with mild proliferative myositis changes (1); Extra-abdominal desmoid (2)
Woodland Hills (Kaiser Permanente) - Ischemic fasciitis (atypical decubital fibroplasia)
Woodland Hills (Suda's Soldiers) - Atypical decubital fibroplasias
Arkansas (University of Arkansas) - Foreign body reaction with myxoid change, hip
Florida (Munroe Regional Medical Center) - Angiolipoma
Florida (Winter Haven) - Hemangioma
Illinois (Heartland Regional Medical Center) - Ischemic fasciitis (atypical decubital fibroplasia)
Illinois (Loyola University of Chicago) - Extra-abdominal desmoid fibromatosis
Illinois (MacNeal Hospital) - Fibromatosis with chondroid metaplasia (1); Musculoaponeurotic fibromatosis (1)
Indiana (Howard Regional Medical Center) - Angiomyolipoma
Louisiana (Louisiana State University Health Science Center) - Fibroma
Maryland (Northwest Hospital) - Benign neural tumor vs. low grade fibromyxoid sarcoma
Maryland (University of Maryland) - Hyalinizing angiectatic tumor
Massachusetts (Berkshire Medical Center) - Extra-abdominal fibromatosis

Massachusetts (University of Massachusetts) - Hyalinizing angiectatic tumor
Minnesota (Fairview Ridges Hospital) - Proliferative fasciitis
Montana (Forensic Science Division) - Epithelioid hemangioendothelioma
New Mexico (University of New Mexico) - Ischemic fasciitis
New York (Long Island Jewish Medical Center) - Low grade fibromyxoid sarcoma
New York (Nassau University Medical Center) - Fibrohistiocytoma
New York (NY Stony Brook University Medical Center Residents) - Ischemic fasciitis
New York (SUNY Stony Brook) - Fibroma of tendon sheath
Oklahoma (Heartland Pathology Consultants) - Fibromatosis
Oklahoma, Tulsa - Reactive myofibroblastic proliferation
Pennsylvania (Conemaugh Memorial Medical Center) - Fibromatosis
Pennsylvania (Drexel University College of Medicine) - Desmoid fibromatosis
Pennsylvania (Lehigh Valley Hospital) - Fibroblastoma
Pennsylvania (Mt. Nittany Medical Center) - Ischemic fasciitis, hip
Pennsylvania (Pennsylvania Hospital Residents) - Neurofibroma
Puerto Rico (University of Puerto Rico) - Fibromatosis
South Dakota (University of South Dakota) - Fibromatosis
Tennessee, Kingsport - Fibroma of tendon sheath
Texas , Lubbock - Epithelioid hemangiopericytoma
Texas (Scott & White Memorial Hospital) - Fasciitis
Washington (Madigan Army Medical Center) - Fibromatosis
West Virginia (Greenbrier Valley Medical Center) - Fibromatosis
West Virginia (Wetzel County Hospital) - Aggressive angiomyxoma
Australia (Royal Hobart Hospital) - Atypical decubital fibroplasia (ie ischemic fasciitis)
Australia (Royal Prince Alfred Hospital) - Ischemic fasciitis
Australia (Sullivan Nicolaides Pathology) - Hemangioma
Canada (Pasqua Hospital) - Ischemic fasciitis
Canada (Sherbrooke University Hospital) - Hemangioma/hamartoma
Germany (UKE Hamburg) - Urothelial carcinoma with sarcomatoid component
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Ischemic fasciitis (atypical decubital fibroplasia)
India , Karnataka - Extra-abdominal desmoid
Ireland (Kerry General Hospital) - Fibromatosis
Japan (Kyoto University Hospital) - Angiofibroma
Qatar (Hamad Medical Corporation) - Ischemic fasciitis/atypical decubital fibroplasias
Saudi Arabia (King Fahad National Guard Hospital) - Fibromatosis
Singapore (KK Women's & Childrens Hospital) - Ischemic fasciitis differential diagnosis, proliferative fasciitis
United Kingdom (Oxford Study Group) - Fibromatosis, right hip

Case 2 - Diagnosis:

Ischemic fasciitis

T-Y1500, M-76130

Consultation: John Goldblum, M.D. "Ischemic fasciitis"

Case 2 – References:

Boudova L and Michal M. Atypical Decubital Fibroplasia Associated with Bizarre Parosteal Osteochondromatous Proliferation (Nora's Reaction). *Pathology, Research & Practice* 1999; 195(2):99-103.
Kendall BS, Liang CY, Lancaster KJ, et al. Ischemic Fasciitis. Report of a Case with Fine Needle Aspiration Findings. *Acta Cytologica* 1997; 41(2):598-602.
Ilaslan H, Joyce M, Bauer T, et al. Decubital Ischemic Fasciitis. Clinical, Pathologic, and MRI Features of Pseudosarcoma. *AJR Am J Roentgenol* 2006; 187(5):1338-1341.
Kendall BS, Liang CY, Lancaster KJ, et al. Ischemic Fasciitis. Report of a Case with Fine Needle Aspiration Findings. *Acta Cytol* 1997; 41(2):598-602.

Case No. 3, Accession No. 30251 January 2007

Alameda (Alameda County Medical Center) - Myxoid lipoma
Arcadia (Garfield Medical Center) - Typical myxoid lipoma
Chico - Lipoma with extensive fat necrosis
Fontana (Kaiser Permanente) - Atypical lipoma vs. lipoma
Glendale - Lipoblastoma

Granada Hills - Myxoid liposarcoma
Hayward/Fremont (St. Rose Hospital) - Myxoid liposarcoma
Irvine (University of California Irvine) - Lipoblastoma
Long Beach - Myxolipoma; Reactive changes consistent with fat necrosis (1)
Monterey (Community Hospital of Monterey Peninsula) - Lipoma with myxoid change
Oakland - Lipoblastoma/atypical lipomatous tumor
Orange (Orange County Pathology) - Lipoblastoma
Sacramento (UC Davis Residents) - Myxolipoma
San Diego (Naval Medical Center) - Well-differentiated liposarcoma
San Diego (Scripps Health) - Lipoblastoma
San Diego (UCSD Medical Center) - Fibromyxolipoma
San Francisco (San Francisco General Hospital) - Intramuscular myxoid lipoma
San Francisco (UCSF Residents) - Spindle cell lipoma
Santa Barbara - Myxoid liposarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Myxolipoma (1); Atypical lipoma (rule out low grade liposarcoma) (2)
Woodland Hills (Kaiser Permanente) - Myxolipoma
Woodland Hills (Suda's Soldiers) - Myxolipoma
Arkansas (University of Arkansas) - Angiolipoma, chest wall
Florida (Munroe Regional Medical Center) - Myxoid liposarcoma
Florida (Winter Haven) - Myxoma
Illinois (Heartland Regional Medical Center) - Myxoid liposarcoma
Illinois (Loyola University of Chicago) - Lipoma
Illinois (MacNeal Hospital) - Myxoma (1); Myxoid liposarcoma (1)
Indiana (Howard Regional Medical Center) - Myxolipoma
Louisiana (Louisiana State University Health Science Center) - Myxoid liposarcoma
Maryland (Northwest Hospital) - Liposarcoma
Maryland (University of Maryland) - Liposarcoma
Massachusetts (Berkshire Medical Center) - Myxoid lipoma
Massachusetts (University of Massachusetts) - Lipoblastoma
Minnesota (Fairview Ridges Hospital) - Liposarcoma, myxoid
Montana (Forensic Science Division) - Angiomyxoma
New Mexico (University of New Mexico) - Lipoblastoma
New York (Long Island Jewish Medical Center) - Myxoid lipoma
New York (Nassau University Medical Center) - Lipoblastomatosis
New York (NY Stony Brook University Medical Center Residents) - Myxoid liposarcoma
New York (SUNY Stony Brook) - Lipoblastoma
Oklahoma (Heartland Pathology Consultants) - Low grade fibromyxoid sarcoma
Oklahoma, Tulsa - Lipoma
Pennsylvania (Conemaugh Memorial Medical Center) - Liposarcoma, myxoid
Pennsylvania (Drexel University College of Medicine) - Myxoid lipoma
Pennsylvania (Lehigh Valley Hospital) - Lipoblastoma
Pennsylvania (Mt. Nittany Medical Center) - Nerve sheath myxoma, chest wall
Pennsylvania (Pennsylvania Hospital Residents) - Fibrolipoma
Puerto Rico (University of Puerto Rico) - Myxolipoma
South Dakota (University of South Dakota) - Myxolipoma
Tennessee, Kingsport - Myxoid liposarcoma
Texas , Lubbock - Atypical lipoma
Texas (Scott & White Memorial Hospital) - Myxolipoma
Washington (Madigan Army Medical Center) - Myxoid lipoma (6); Myxoid liposarcoma (6)
West Virginia (Greenbrier Valley Medical Center) - Spindle cell lipoma
West Virginia (Wetzel County Hospital) - Myxoid lipoma
Australia (Royal Hobart Hospital) - Spindle cell lipoma
Australia (Royal Prince Alfred Hospital) - Lipoblastoma
Australia (Sullivan Nicolaides Pathology) - Myxolipoma
Canada (Pasqua Hospital) - Spindle cell lipoma
Canada (Sherbrooke University Hospital) - Myxolipoma
Germany (UKE Hamburg) - Mucinous adenocarcinoma (bladder)
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Lipoblastoma
India , Karnataka - Spindle cell lipoma
Ireland (Kerry General Hospital) - Fibrolipoma
Jamaica (The University of West Indies) - Angiomyxolipoma
Japan (Kyoto University Hospital) - Myxolipoma
Qatar (Hamad Medical Corporation) - Myxolipoma

Saudi Arabia (King Fahad National Guard Hospital) - Myxoid lipoma
Singapore (KK Women's & Childrens Hospital) - Benign lipomatous tumor, differential diagnosis myxolipoma and lipoblastoma
United Kingdom (Oxford Study Group) - Chest wall, myxoid lipoma

Case 3 - Diagnosis:

Giant lipoblastoma, chest wall
T-Y2100, M-88810

Directors Note: Please note the marked lobularity, a "finger print" appearance, thickened fibrous bands. Note also the absence of lipoblasts, cellular atypia and microcysts. (drc)

Case 3 - References:

Park CH, Kim KI, Lim YT, et al. Ruptured Giant Intrathoracic Lipoblastoma in a 4-Month-Old Infant. CT and MR Findings. *Pediatr Radiol* 2000; 30(1):38-40.

Sciot R, DeWever I, and Debiec-Rychter M. Lipoblastoma in a 23-Year-Old Male. Distinction From Atypical Lipomatous Tumor Using Cytogenetic and Florescence In-Situ Hybridization Analysis. *Virchows Archiv* 2003; 442(5):468-471.

Kuhnen C, Mentzel T, Fisseler-Eckhoff A, et al. Atypical Lipomatous Tumor in a 14-Year-Old Patient. Distinction From Lipoblastoma Using FISH Analysis. *Virchows Archiv* 2002; 441(3):299-302.

Collins MH and Chatten J. Lipoblastoma/Lipoblastomatosis. A Clinicopathologic Study of 25 Tumors. *Am J of Surg Pathol* 1997; 21(10):1131-1137.

Brandal P, Bjerkehagen B and Heim S. Rearrangement of Chromosomal Region 8q11-13 in Lipomatous Tumors. Correlation with Lipoblastoma Morphology. *J of Pathol* 2006; 208(3):388-394.

Case No. 4, Accession No. 30236 January 2007

Alameda (Alameda County Medical Center) - Atypical lipomatous tumor/well-differentiated liposarcoma
Arcadia (Garfield Medical Center) - Pleomorphic lipoma
Chico - A.L.T./well differentiated liposarcoma
Fontana (Kaiser Permanente) - Atypical lipomatous tumor
Glendale - Atypical lipomatous tumor/well-differentiated liposarcoma
Granada Hills - Ovarian liposarcoma
Hayward/Fremont (St. Rose Hospital) - Well-differentiated liposarcoma
Irvine (University of California Irvine) - Myxoid liposarcoma
Long Beach - Atypical lipoma with calcifications; Atypical lipoma with fat necrosis (1)
Monterey (Community Hospital of Monterey Peninsula) - Well-differentiated liposarcoma
Oakland - Liposarcoma
Orange (Orange County Pathology) - Atypical lipoma/well-differentiated sclerosing liposarcoma
Sacramento (UC Davis Residents) - Atypical lipomatous tumor
San Diego (Naval Medical Center) - Well-differentiated liposarcoma, spindle cell subtype
San Diego (Scripps Health) - Atypical lipomatous tumor
San Diego (UCSD Medical Center) - Atypical lipomatous tumor/well-differentiated lipoma-like liposarcoma
San Francisco (San Francisco General Hospital) - Pleomorphic lipoma
San Francisco (UCSF Residents) - Well-differentiated liposarcoma
Santa Barbara - Atypical lipoma
Santa Rosa (Santa Rosa Memorial Hospital) - Well-differentiated liposarcoma (1); Atypical lipoma (rule out low grade liposarcoma) (2)
Woodland Hills (Kaiser Permanente) - Atypical lipomatous tumor (well-differentiated liposarcoma)
Woodland Hills (Suda's Soldiers) - Well-differentiated liposarcoma
Arkansas (University of Arkansas) - Well-differentiated liposarcoma, sclerosing variant, thigh
Florida (Munroe Regional Medical Center) - Atypical lipoma
Florida (Winter Haven) - Atypical lipomatous tumor
Illinois (Heartland Regional Medical Center) - Well-differentiated liposarcoma (atypical lipomatous tumor)
Illinois (Loyola University of Chicago) - Well-differentiated liposarcoma
Illinois (MacNeal Hospital) - Myxoid liposarcoma (1); Sclerosing well-differentiated liposarcoma (1)
Indiana (Howard Regional Medical Center) - Myxoid liposarcoma
Louisiana (Louisiana State University Health Science Center) - Atypical lipoma, myxoid pattern
Maryland (Northwest Hospital) - Liposarcoma
Maryland (University of Maryland) - Atypical lipomatous tumor
Massachusetts (Berkshire Medical Center) - Atypical lipomatous tumor
Massachusetts (University of Massachusetts) - Atypical lipomatous tumor

Minnesota (Fairview Ridges Hospital) - Liposarcoma, well-differentiated, sclerosing
Montana (Forensic Science Division) - Well-differentiated liposarcoma
New Mexico (University of New Mexico) - Atypical lipomatous tumor/well-differentiated liposarcoma
New York (Long Island Jewish Medical Center) - Well-differentiated liposarcoma
New York (Nassau University Medical Center) - Spindle cell/pleomorphic lipoma
New York (NY Stony Brook University Medical Center Residents) - Well-differentiated liposarcoma/atypical lipomatous tumor
New York (SUNY Stony Brook) - Atypical lipomatous tumor/well-differentiated liposarcoma
Oklahoma (Heartland Pathology Consultants) - Well-differentiated liposarcoma
Oklahoma, Tulsa - Atypical lipomatous tumor (well-differentiated liposarcoma)
Pennsylvania (Conemaugh Memorial Medical Center) - Spindle cell lipoma
Pennsylvania (Drexel University College of Medicine) - Well-differentiated liposarcoma
Pennsylvania (Lehigh Valley Hospital) - Atypical lipomatous tumor (well-differentiated sclerosing liposarcoma)
Pennsylvania (Mt. Nittany Medical Center) - Myxoid lipoma, thigh
Pennsylvania (Pennsylvania Hospital Residents) - Atypical lipoma, well-differentiated liposarcoma
Puerto Rico (University of Puerto Rico) - Liposarcoma, well-differentiated
South Dakota (University of South Dakota) - Well-differentiated liposarcoma
Tennessee, Kingsport - Well-differentiated liposarcoma
Texas , Lubbock - Sclerosing liposarcoma
Texas (Scott & White Memorial Hospital) - Atypical lipoma
Washington (Madigan Army Medical Center) - Well-differentiated liposarcoma (11); Sclerosing liposarcoma (1)
West Virginia (Greenbrier Valley Medical Center) - Atypical lipoma
West Virginia (Wetzel County Hospital) - Liposarcoma, well-differentiated
Australia (Royal Hobart Hospital) - Well-differentiated liposarcoma
Australia (Royal Prince Alfred Hospital) - Lipoblastoma
Australia (Sullivan Nicolaides Pathology) - Atypical lipomatous tumor
Canada (Pasqua Hospital) - Well-differentiated liposarcoma
Canada (Sherbrooke University Hospital) - Well-differentiated liposarcoma (sclerosing type)
Germany (UKE Hamburg) - Angiomyolioma
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Well-differentiated liposarcoma
India , Karnataka - Pleomorphic lipoma
Ireland (Kerry General Hospital) - Well-differentiated (sclerosing) liposarcoma
Jamaica (The University of West Indies) - Atypical lipoma
Japan (Kyoto University Hospital) - Liposarcoma (well-differentiated)
Qatar (Hamad Medical Corporation) - Well-differentiated sclerosing liposarcoma
Saudi Arabia (King Fahad National Guard Hospital) - Well-differentiated liposarcoma, sclerosing subtype
Singapore (KK Women's & Childrens Hospital) - Atypical lipomatous tumor, well-differentiated liposarcoma
United Kingdom (Oxford Study Group) - Atypical (pleomorphic) lipoma, thigh

Case 4 - Diagnosis:

Atypical lipomatous tumor/well-differentiated lipoma-like liposarcoma, thigh
T-Y9100, M-88503

Case 4 - References:

Fimmano A, Coppola BE, Cirillo C, et al. Giant Atypical Muscle-Involving Lipoma of the Right Thigh. A Case Report and Review of the Literature. *Chir Ital* 2005; 57(6):773-777.
Fernandez-Flores A and Juanes F. Value of Cytological Imprints in the Diagnosis of Atypical Lipomatous Tumor. *Diagn Cytopathol* 2005; 32(1):51-52.
Kuhnen C, Mentzel T, Fisseler-Eckhoff A, et al. Atypical Lipomatous Tumor in a 14-Year-Old Patient. Distinction from Lipoblastoma Using FISH Analysis. *Virchows Arch* 2002; 441(3):299-302.
Yang YJ, Damron TA, Cohen H, et al. Distinction of Well-Differentiated Liposarcoma from Lipoma in Two Patients with Multiple Well-Differentiated Fatty Masses. *Skeletal Radiol* 2001; 30(10):584-589.

Case No. 5, Accession No. 30295 January 2007

Alameda (Alameda County Medical Center) - Well-diffferentiated liposarcoma
Arcadia (Garfield Medical Center) - Low grade liposarcoma
Chico - Well-differentiated liposarcoma
Fontana (Kaiser Permanente) - Myxoid liposarcoma
Glendale - Well differentiated liposarcoma
Granada Hills - Myxoid liposarcoma of breast
Hayward/Fremont (St. Rose Hospital) - Well-differentiated liposarcoma, myxoid and sclerosing

Irvine (University of California Irvine) - Liposarcoma, well-differentiated
Long Beach - Low grade well-differentiated liposarcoma; Myxoid liposarcoma (1)
Monterey (Community Hospital of Monterey Peninsula) - Myxoid/round cell liposarcoma
Oakland - Myxoid liposarcoma
Orange (Orange County Pathology) - Well-differentiated sclerosing liposarcoma
Sacramento (UC Davis Residents) - Atypical lipomatous tumor
San Diego (Naval Medical Center) - Well-differentiated liposarcoma inflammatory subtype
San Diego (Scripps Health) - Well-differentiated liposarcoma
San Diego (UCSD Medical Center) - Atypical lipomatous tumor/well-differentiated lipoma-like liposarcoma
San Francisco (San Francisco General Hospital) - Myxoid angiomyolipoma
San Francisco (UCSF Residents) - De-differentiated liposarcoma
Santa Barbara - Liposarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Well-differentiated liposarcoma, inflammatory form (1); Low grade liposarcoma (2)
Woodland Hills (Kaiser Permanente) - Atypical lipomatous tumor (well-differentiated liposarcoma)
Woodland Hills (Suda's Soldiers) - Well-differentiated liposarcoma
Arkansas (University of Arkansas) - Well-differentiated liposarcoma, inflammatory variant, retroperitoneum
Florida (Munroe Regional Medical Center) - Myelomyolipoma
Florida (Winter Haven) - Atypical lipomatous tumor
Illinois (Heartland Regional Medical Center) - Well-differentiated lipo-like (atypical lipomatous tumor)
Illinois (Loyola University of Chicago) - Liposarcoma, myxoid
Illinois (MacNeal Hospital) - Myxoid liposarcoma (1); Inflammatory liposarcoma (1)
Indiana (Howard Regional Medical Center) - Myxoid liposarcoma
Louisiana (Louisiana State University Health Science Center) - Well-differentiated liposarcoma, inflammatory type
Maryland (Northwest Hospital) - Liposarcoma
Maryland (University of Maryland) - Well-differentiated liposarcoma
Massachusetts (Berkshire Medical Center) - Well-differentiated liposarcoma
Massachusetts (University of Massachusetts) - Well-differentiated liposarcoma
Minnesota (Fairview Ridges Hospital) - Liposarcoma, well-differentiated, ? inflammatory
Montana (Forensic Science Division) - Well-differentiated liposarcoma
New Mexico (University of New Mexico) - Myelolipoma
New York (Long Island Jewish Medical Center) - Well-differentiated liposarcoma, inflammatory subtype vs. myxoid lipoma
New York (Nassau University Medical Center) - Angiomyolipoma
New York (NY Stony Brook University Medical Center Residents) - Well-differentiated liposarcoma, inflammatory variant
New York (SUNY Stony Brook) - Atypical lipomatous tumor, inflammatory type
Oklahoma (Heartland Pathology Consultants) - Myxoid lipoma
Oklahoma, Tulsa - Well-differentiated liposarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Liposarcoma, well-differentiated
Pennsylvania (Drexel University College of Medicine) - Well-differentiated liposarcoma
Pennsylvania (Lehigh Valley Hospital) - Myxoid liposarcoma
Pennsylvania (Mt. Nittany Medical Center) - Atypical lipomatous tumor
Pennsylvania (Pennsylvania Hospital Residents) - Inflammatory liposarcoma
Puerto Rico (University of Puerto Rico) - Well-differentiated liposarcoma vs. angiomyolipoma
South Dakota (University of South Dakota) - Myxoid liposarcoma
Tennessee, Kingsport - Myxoid liposarcoma
Texas , Lubbock - Myxoid liposarcoma
Texas (Scott & White Memorial Hospital) - Well-differentiated liposarcoma
Washington (Madigan Army Medical Center) - Myxoid liposarcoma (6); Inflammatory liposarcoma (6)
West Virginia (Greenbrier Valley Medical Center) - Well-differentiated liposarcoma
West Virginia (Wetzel County Hospital) - Inflammatory liposarcoma
Australia (Royal Hobart Hospital) - Well-differentiated liposarcoma
Australia (Royal Prince Alfred Hospital) - Atypical lipomatous tumor
Australia (Sullivan Nicolaides Pathology) - Well-differentiated liposarcoma
Canada (Pasqua Hospital) - Spindle cell liposarcoma
Canada (Sherbrooke University Hospital) - Well-differentiated liposarcoma
Germany (UKE Hamburg) - Leiomyosarcoma
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Well-differentiated liposarcoma with myxoid area
India , Karnataka - Secondary changes in lipoma
Ireland (Kerry General Hospital) - Well-differentiated liposarcoma with dedifferentiation
Jamaica (The University of West Indies) - Well-differentiated liposarcoma
Japan (Kyoto University Hospital) - Liposarcoma (inflammatory)
Qatar (Hamad Medical Corporation) - Liposarcoma
Saudi Arabia (King Fahad National Guard Hospital) - Well-differentiated liposarcoma
Singapore (KK Women's & Childrens Hospital) - Well-differentiated liposarcoma, inflammatory type

United Kingdom (Oxford Study Group) - Dedifferentiated liposarcoma, retroperitoneum

Case 5 - Diagnosis:

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

Directors Note: Due to their increased aggressiveness, retroperitoneal atypical lipomatous neoplasms are best classified as liposarcoma. (drc)

Case 5 - References:

An JY, Heo JS, Noh JH, et al. Primary Malignant Retroperitoneal Tumors. Analysis of a Single Institutional Experience. *Eur J Surg Oncol* 2006; 24.

Beyrouti MI, Ben Amar M, Beyrouti R, et al. Retro-Peritoneal Liposarcoma About 5 Cases and Revue of Literature. *Tunis Med* 2006; 84(6):365-373.

McCallum OJ, Burke JJ 2nd, Childs AJ, et al. Retroperitoneal Liposarcoma Weighing Over One Hundred Pounds with Review of the Literature. *Gynecol Oncol* 2006; 103(3):1152-1154.

Mizuno Y, Sumi Y, Nachi S, et al. A Case of a Large Retroperitoneal Liposarcoma Presenting as an Incarcerated Inguinal Hernia. *Hernia* 2006; 10(5):439-442.

Klijanienko J, Caillaud JM and Lagace R. Fine-Needle Aspiration in Liposarcoma. Cytohistologic Correlative Study Including Well-Differentiated, Myxoid, and Pleomorphic Variants. *Diagn Cytopathol* 2004; 30(5):307-312.

Case No. 6, Accession No. 30266 January 2007

Alameda (Alameda County Medical Center) - Dedifferentiated liposarcoma
Arcadia (Garfield Medical Center) - Malignant fibrous histiocytoma
Chico - Dedifferentiated liposarcoma
Fontana (Kaiser Permanente) - Dedifferentiated liposarcoma
Glendale - Dedifferentiated liposarcoma
Granada Hills - Metastatic malignant fibrohistiocytoma
Hayward/Fremont (St. Rose Hospital) - Dedifferentiated liposarcoma
Irvine (University of California Irvine) - Dedifferentiated liposarcoma
Long Beach - Sarcoma, NOS; Spindle cell sarcoma, NOS (1)
Monterey (Community Hospital of Monterey Peninsula) - Dedifferentiated liposarcoma
Oakland - Inflammatory liposarcoma
Orange (Orange County Pathology) - High grade sarcoma
Sacramento (UC Davis Residents) - High grade pleomorphic sarcoma
San Diego (Naval Medical Center) - Dedifferentiated liposarcoma
San Diego (Scripps Health) - Pleomorphic high grade spindle cell sarcoma (MFH)
San Diego (UCSD Medical Center) - Dedifferentiated liposarcoma
San Francisco (San Francisco General Hospital) - Myelolipoma
San Francisco (UCSF Residents) - Dedifferentiated liposarcoma
Santa Barbara - Fibrosarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Malignant fibrous histiocytoma (1); Sarcoma, probable leiomyosarcoma (1); Leiomyosarcoma (1)
Woodland Hills (Kaiser Permanente) - High grade sarcoma (? dedifferentiated liposarcoma)
Woodland Hills (Suda's Soldiers) - Malignant peripheral nerve sheath tumor
Arkansas (University of Arkansas) - Pleomorphic high grade sarcoma (MFH), retroperitoneum
Florida (Munroe Regional Medical Center) - Pleomorphic liposarcoma
Florida (Winter Haven) - Dedifferentiated liposarcoma
Illinois (Heartland Regional Medical Center) - High grade spindle cell sarcoma, favor dedifferentiated liposarcoma
Illinois (Loyola University of Chicago) - Malignant peripheral nerve sheath tumor
Illinois (MacNeal Hospital) - Leiomyosarcoma vs. malignant peripheral nerve sheath tumor (1); Pleomorphic liposarcoma (1)
Indiana (Howard Regional Medical Center) - Spindle cell liposarcoma
Louisiana (Louisiana State University Health Science Center) - Dedifferentiated liposarcoma
Maryland (Northwest Hospital) - High grade sarcoma
Maryland (University of Maryland) - Dedifferentiated liposarcoma
Massachusetts (Berkshire Medical Center) - High grade sarcoma, high grade liposarcoma
Massachusetts (University of Massachusetts) - Dedifferentiated liposarcoma
Minnesota (Fairview Ridges Hospital) - Liposarcoma, dedifferentiated
Montana (Forensic Science Division) - Leiomyosarcoma
New Mexico (University of New Mexico) - Dedifferentiated liposarcoma

New York (Long Island Jewish Medical Center) - Dedifferentiated liposarcoma
New York (Nassau University Medical Center) - Dedifferentiated liposarcoma
New York (NY Stony Brook University Medical Center Residents) - Malignant peripheral nerve sheath tumor
New York (SUNY Stony Brook) - Myxoid fibrosarcoma (high grade)
Oklahoma (Heartland Pathology Consultants) - Dedifferentiated liposarcoma
Oklahoma, Tulsa - Dedifferentiated liposarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Malignant peripheral nerve sheath tumor
Pennsylvania (Drexel University College of Medicine) - Dedifferentiated liposarcoma
Pennsylvania (Lehigh Valley Hospital) - Leiomyosarcoma
Pennsylvania (Mt. Nittany Medical Center) - Malignant fibrous histiocytoma, retroperitoneum
Pennsylvania (Pennsylvania Hospital Residents) - High grade pleomorphic sarcoma
Puerto Rico (University of Puerto Rico) - Pleomorphic sarcoma, malignant fibrous histiocytoma
South Dakota (University of South Dakota) - Dedifferentiated liposarcoma
Tennessee, Kingsport - Dedifferentiated liposarcoma
Texas , Lubbock - Malignant peripheral nerve sheath tumor
Texas (Scott & White Memorial Hospital) - Dedifferentiated liposarcoma
Washington (Madigan Army Medical Center) - Dedifferentiated liposarcoma (12)
West Virginia (Greenbrier Valley Medical Center) - Schwannoma
West Virginia (Wetzel County Hospital) - Malignant fibrous histiocytoma
Australia (Royal Hobart Hospital) - Dedifferentiated liposarcoma
Australia (Sullivan Nicolaides Pathology) - Malignant fibrous histiocytoma
Canada (Pasqua Hospital) - Sarcoma ? malignant peripheral nerve sheath tumor ? dedifferentiated liposarcoma
Canada (Sherbrooke University Hospital) - Dedifferentiated liposarcoma
Germany (UKE Hamburg) - Oncocytoma
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Sarcoma, malignant peripheral nerve sheath tumor, synovial sarcoma
India , Karnataka - Malignant peripheral nerve sheath tumor
Ireland (Kerry General Hospital) - Grade 3, myxofibrosarcoma
Jamaica (The University of West Indies) - Dedifferentiated liposarcoma
Japan (Kyoto University Hospital) - Small round and spindle cell tumor, malignant
Qatar (Hamad Medical Corporation) - Dedifferentiated liposarcoma
Saudi Arabia (King Fahad National Guard Hospital) - Differentiating liposarcoma
Singapore (KK Women's & Childrens Hospital) - Dedifferentiated liposarcoma
United Kingdom (Oxford Study Group) - Retroperitoneum dedifferentiated liposarcoma

Case 6 - Diagnosis:

Dedifferentiated liposarcoma, retroperitoneum
T-Y4600, M-88503

Case 6 - References:

Perez EA, Gutierrez JC, Moffat FL Jr, et al. Retroperitoneal and Truncal Sarcomas. Prognosis Depends Upon Type Not Location. *Ann Surg Oncol* 2007.

Macarenco RS, Erickson-Johnson M, Wang X, et al. Cytogenetic and Molecular Genetic Findings in Dedifferentiated Liposarcoma with Neural-Like Whorling Pattern and Metaplastic Bone Formation. *Cancer Genet Cytogenet* 2006; 171(2):126-129.

Fabre-Guillevin E, Coindre JM, Somerhausen Nde S, et al. Retroperitoneal Liposarcomas. Follow-Up Analysis of Dedifferentiation after Clinicopathologic reexamination of 86 Liposarcomas and Malignant Fibrous Histiocytomas. *Cancer* 2006; 106(12):2725-2733.

Shimada S, Ishazawa T, Ishizawa K, et al. Dedifferentiated Liposarcoma with Rhabdomyoblastic Differentiation. *Virchows Archiv* 2005; 447(5):835-841.

Case No. 7, Accession No. 30243 **January 2007**

Alameda (Alameda County Medical Center) - Myxoid liposarcoma
Arcadia (Garfield Medical Center) - Intramuscular hemangioma
Chico - Myxoid liposarcoma
Fontana (Kaiser Permanente) - Intramuscular myxoma
Glendale - Myxoid liposarcoma
Granada Hills - Intrapulmonary cystic lymphangioma
Hayward/Fremont (St. Rose Hospital) - Low grade fibromyxosarcoma
Irvine (University of California Irvine) - Myxoid liposarcoma
Long Beach - Myxoid liposarcoma; Lymphangioma (1)
Monterey (Community Hospital of Monterey Peninsula) - Myxoid liposarcoma

Oakland - Hemangioma
Orange (Orange County Pathology) - Myxoid liposarcoma
Sacramento (UC Davis Residents) - Cavernous lymphangioma
San Diego (Naval Medical Center) - Myxoid liposarcoma
San Diego (Scripps Health) - Myxoid liposarcoma
San Diego (UCSD Medical Center) - Cystic liposarcoma
San Francisco (San Francisco General Hospital) - Intramuscular cavernous hemangioma
San Francisco (UCSF Residents) - Myxoid liposarcoma
Santa Barbara - Lymphangioma
Santa Rosa (Santa Rosa Memorial Hospital) - Intramuscular myxoma (1); Intramuscular hemangioma (2)
Woodland Hills (Kaiser Permanente) - Intramuscular hemangioma
Woodland Hills (Suda's Soldiers) - Angioma (hemangioma/lymphangioma)
Arkansas (University of Arkansas) - Myxoid liposarcoma, calf
Florida (Munroe Regional Medical Center) - Lymphangioma
Florida (Winter Haven) - Myxoid liposarcoma
Illinois (Heartland Regional Medical Center) - Myxoid liposarcoma
Illinois (Loyola University of Chicago) - Myxoid liposarcoma vs. cystic synovial sarcoma
Illinois (MacNeal Hospital) - Lymphangioma (1); Angiomatosis (1)
Indiana (Howard Regional Medical Center) - Myxoid lymphangioma
Louisiana (Louisiana State University Health Science Center) - Myxoid liposarcoma
Maryland (Northwest Hospital) - Liposarcoma
Maryland (University of Maryland) - Myxoliposarcoma
Massachusetts (Berkshire Medical Center) - Myxoid liposarcoma
Massachusetts (University of Massachusetts) - Myxoliposarcoma
Minnesota (Fairview Ridges Hospital) - Liposarcoma, myxoid
Montana (Forensic Science Division) - Myxoid liposarcoma
New Mexico (University of New Mexico) - Cavernous hemangioma
New York (Long Island Jewish Medical Center) - Well-differentiated myxoid liposarcoma
New York (Nassau University Medical Center) - Lymphangioma
New York (NY Stony Brook University Medical Center Residents) - Myxoid liposarcoma
New York (SUNY Stony Brook) - Intramuscular myxoma vs. benign lymphovascular lesion
Oklahoma (Heartland Pathology Consultants) - Intramuscular hemangioma
Oklahoma, Tulsa - Myxoid liposarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Extraskeletal myxoid chondrosarcoma
Pennsylvania (Drexel University College of Medicine) - Intramuscular lymphangioma
Pennsylvania (Lehigh Valley Hospital) - Intramuscular hemangioma
Pennsylvania (Mt. Nittany Medical Center) - Lymphangioma, leg
Pennsylvania (Pennsylvania Hospital Residents) - Lymphangioma
Puerto Rico (University of Puerto Rico) - Myxoid liposarcoma vs. lymphangioma
South Dakota (University of South Dakota) - Intramuscular myxoma
Tennessee, Kingsport - Hemangiopericytoma
Texas , Lubbock - Intramuscular angioma
Texas (Scott & White Memorial Hospital) - Myxoid liposarcoma
Washington (Madigan Army Medical Center) - Myxoid liposarcoma (6); Intramuscular angioma (6)
West Virginia (Greenbrier Valley Medical Center) - Intramuscular lymphangioma
West Virginia (Wetzel County Hospital) - Glomangioma
Australia (Royal Hobart Hospital) - Myxoid liposarcoma
Australia (Sullivan Nicolaides Pathology) - Myxoid liposarcoma
Canada (Pasqua Hospital) - Myxoid liposarcoma
Canada (Sherbrooke University Hospital) - Myxoid liposarcoma
Germany (UKE Hamburg) - Solitary fibrous tumor
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Intramuscular hemangioma
India , Karnataka - Cystic schwannoma
Ireland (Kerry General Hospital) - Myxoid liposarcoma
Japan (Kyoto University Hospital) - Myxoid liposarcoma
Qatar (Hamad Medical Corporation) - Hemangioendothelioma
Saudi Arabia (King Fahad National Guard Hospital) - Intramuscular lymphangioma
Singapore (KK Women's & Childrens Hospital) - Myxoid liposarcoma
United Kingdom (Oxford Study Group) - Myxoid liposarcoma, left gastrocnemius

Case 7 - Diagnosis:

Myxoid liposarcoma, leg
T-Y9400, M-83523

Case 7 - References:

Ohashi T, Imokawa H, Kenmouchi M, et al. Neck Metastasis of a Myxoid Liposarcoma of the Lower Extremity. *Auris Nasus Larynx* 2004; 31(4):443-446.

Orvieto E, Furlanetto A, Laurino L, et al. Myxoid and Round Cell Liposarcoma. A Spectrum of Myxoid Adipocytic Neoplasia. *Sem in Diagn Pathol* 2001; 18(4):267-273.

Dei Tos AP and Dal Cin P. The Role of Cytogenetics in the Classification of Soft Tissue Tumors. *Virchows Archiv* 1997; 431(2):83-94.

Tallini G, Akerman M, Dal Cin P. 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.

Case No. 8, Accession No. 30228 January 2007

Alameda (Alameda County Medical Center) - Myofibrosarcoma
Arcadia (Garfield Medical Center) - Malignant fibrous histiocytoma
Chico - Myxofibrosarcoma (myxoid MFH)
Fontana (Kaiser Permanente) - Myxoid liposarcoma
Glendale - Myxoid liposarcoma
Granada Hills - Retroperitoneal stromal tumor
Hayward/Fremont (St. Rose Hospital) - Myxofibrosarcoma
Irvine (University of California Irvine) - Well-differentiated liposarcoma with myxoid changes
Long Beach - Myxoid liposarcoma
Monterey (Community Hospital of Monterey Peninsula) - Low grade myxoid malignant fibrous histiocytoma
Oakland - Angiomyxoid fibroma
Orange (Orange County Pathology) - Myxoid sarcoma
Sacramento (UC Davis Residents) - Myxoid liposarcoma with round cell features
San Diego (Naval Medical Center) - Dedifferentiated liposarcoma
San Diego (Scripps Health) - Pleomorphic rhabdomyosarcoma
San Diego (UCSD Medical Center) - Myxoid liposarcoma
San Francisco (San Francisco General Hospital) - Myxoid hemangiopericytoma
San Francisco (UCSF Residents) - Myxoid liposarcoma
Santa Barbara - Myxoid neurofibroma
Santa Rosa (Santa Rosa Memorial Hospital) - Myxoid liposarcoma (2); Myxoliposarcoma (1)
Woodland Hills (Kaiser Permanente) - Myxoid liposarcoma (vs. myxoid malignant fibrous histiocytoma)
Woodland Hills (Suda's Soldiers) - Myxoid liposarcoma
Arkansas (University of Arkansas) - Myxoid liposarcoma, retroperitoneum
Florida (Munroe Regional Medical Center) - Desmoplastic fibroma
Florida (Winter Haven) - Rhabdomyosarcoma
Illinois (Heartland Regional Medical Center) - Myxoid stromal neoplasm, favor myxosarcoma
Illinois (Loyola University of Chicago) - Fibromyxoid sarcoma
Illinois (MacNeal Hospital) - Angiomyxoma (1); Schwannoma (1)
Indiana (Howard Regional Medical Center) - Myxoid liposarcoma
Louisiana (Louisiana State University Health Science Center) - Myxoid malignant fibrous histiocytoma vs. fibrosarcoma
Massachusetts (Berkshire Medical Center) - Myxoid liposarcoma with an areas of high grade liposarcoma
Massachusetts (University of Massachusetts) - Low grade fibromyxoid sarcoma
Maryland (Northwest Hospital) - Myxofibrosarcoma
Maryland (University of Maryland) - Low-grade fibromyxoid sarcoma
Minnesota (Fairview Ridges Hospital) - Liposarcoma , well-differentiated, myxoid
Montana (Forensic Science Division) - Myxoid liposarcoma
New Mexico (University of New Mexico) - Myxoid liposarcoma
New York (Long Island Jewish Medical Center) - Low grade sarcoma; myxoid liposarcoma vs. fibromyxoid sarcoma
New York (Nassau University Medical Center) - Myxoid liposarcoma
New York (NY Stony Brook University Medical Center Residents) - Myxoid liposarcoma
New York (SUNY Stony Brook) - Myxoid fibrosarcoma vs. myxoid liposarcoma
Oklahoma (Heartland Pathology Consultants) - Myxoid malignant fibrous histiocytoma
Oklahoma, Tulsa - Myxoid liposarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Myxofibrosarcoma
Pennsylvania (Drexel University College of Medicine) - Myxoid malignant fibrous histiocytoma
Pennsylvania (Lehigh Valley Hospital) - Solitary fibrous tumor
Pennsylvania (Mt. Nittany Medical Center) - Round cell myxoid liposarcoma
Pennsylvania (Pennsylvania Hospital Residents) - Malignant peripheral nerve sheath tumor
Puerto Rico (University of Puerto Rico) - Myxoid liposarcoma
South Dakota (University of South Dakota) - Myxoid malignant fibrous histiocytoma

Tennessee, Kingsport - Low grade fibromyxoid sarcoma
Texas , Lubbock - Myxoid liposarcoma
Texas (Scott & White Memorial Hospital) - Myxoid liposarcoma
Washington (Madigan Army Medical Center) - Sarcoma, NOS
West Virginia (Greenbrier Valley Medical Center) - Well-differentiated leiomyosarcoma
West Virginia (Wetzel County Hospital) - Myxoid liposarcoma
Australia (Royal Hobart Hospital) - Myxofibrosarcoma (MFH)
Australia (Sullivan Nicolaides Pathology) - Myxofibrosarcoma
Canada (Pasqua Hospital) - Low grade myxofibrosarcoma
Canada (Sherbrooke University Hospital) - Dedifferentiated liposarcoma
Germany (UKE Hamburg) - Endometrial stromal sarcoma (uterus)
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Myxoid liposarcoma
India , Karnataka - Myxoid liposarcoma
Ireland (Kerry General Hospital) - Myxoid liposarcoma
Jamaica (The University of West Indies) - Low grade myxoid malignant fibrous histiocytoma/myxofibrosarcoma
Japan (Kyoto University Hospital) - Myxoid liposarcoma
Qatar (Hamad Medical Corporation) - Myxoid liposarcoma
Saudi Arabia (King Fahad National Guard Hospital) - Myxoid/round cell liposarcoma
Singapore (KK Women's & Childrens Hospital) - Myxofibrosarcoma, low to intermediate grade
United Kingdom (Oxford Study Group) - Myxoid liposarcoma, left retroperitoneum

Case 8 - Diagnosis:

Myxoid liposarcoma
T-71000, M-88523

Case 8 – References:

Farese S and Palasciano N. A Case of Giant Retroperitoneal Liposarcoma. *Chir Ital* 2002; 54(1):95-98.
Pautler SE, Meads GE and Dawson W. Pseudo-Crossed Renal Ectopia Secondary to a Myxoid Liposarcoma. *Urol* 1998; 54(6):1128-1129.
*(See also references for Case 7)

Case No. 9, Accession No. 30340 January 2007

Alameda (Alameda County Medical Center) - Leiomyosarcoma
Arcadia (Garfield Medical Center) - Leiomyosarcoma
Chico - Leiomyosarcoma (skin not kidney)
Fontana (Kaiser Permanente) - Myxoid leiomyosarcoma
Glendale - Leiomyosarcoma
Granada Hills - Myxoid schwannoma
Hayward/Fremont (St. Rose Hospital) - Leiomyosarcoma
Irvine (University of California Irvine) - Leiomyosarcoma
Long Beach - Leiomyosarcoma; Atypical leiomyoma consistent with myxoid degeneration (1)
Monterey (Community Hospital of the Monterey Peninsula) - Leiomyosarcoma
Oakland - Sarcoma
Orange (Orange County Pathology) - Leiomyosarcoma
Sacramento (UC Davis Residents) - Myxoid leiomyosarcoma
San Diego (Naval Medical Center) - Leiomyosarcoma
San Diego (Scripps Health) - Leiomyosarcoma
San Diego (UCSD Medical Center) - Leiomyosarcoma
San Francisco (San Francisco General Hospital) - Sarcomatoid renal cell carcinoma
San Francisco (UCSF Residents) - Leiomyosarcoma
Santa Barbara - Leiomyosarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Leiomyosarcoma (2); Subcutaneous leiomyosarcoma (1)
Woodland Hills (Kaiser Permanente) - Leiomyosarcoma, high grade
Woodland Hills (Suda's Soldiers) - Leiomyosarcoma
Arkansas (University of Arkansas) - Leiomyosarcoma, kidney
Florida (Munroe Regional Medical Center) - Leiomyosarcoma
Florida (Winter Haven) - Leiomyoma
Illinois (Heartland Regional Medical Center) - Leiomyosarcoma
Illinois (Loyola University of Chicago) - Leiomyosarcoma
Illinois (MacNeal Hospital) - Angiomyolipoma (2)

Indiana (Howard Regional Medical Center) - Leiomyosarcoma
Louisiana (Louisiana State University Health Science Center) - Leiomyosarcoma
Maryland (Northwest Hospital) - Mucinous tubular and spindle cell carcinoma
Maryland (University of Maryland) - Leiomyosarcoma
Massachusetts (Berkshire Medical Center) - Leiomyosarcoma
Massachusetts (University of Massachusetts) - Leiomyosarcoma
Minnesota (Fairview Ridges Hospital) - Leiomyosarcoma
Montana (Forensic Science Division) - Myxoid leiomyosarcoma
New Mexico (University of New Mexico) - Leiomyosarcoma
New York (Long Island Jewish Medical Center) - Leiomyosarcoma
New York (Nassau University Medical Center) - Leiomyosarcoma
New York (NY Stony Brook University Me dical Center Residents) - Myxoid leiomyosarcoma
New York (SUNY Stony Brook) - Angiomyolipoma with atypia vs. leiomyosarcoma high grade
Oklahoma (Heartland Pathology Consultants) - Myxoid leiomyosarcoma
Oklahoma, Tulsa - Leiomyosarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Leiomyosarcoma
Pennsylvania (Drexel University College of Medicine) - Myxoid leiomyosarcoma
Pennsylvania (Lehigh Valley Hospital) - Angiomyolipoma
Pennsylvania (Mt. Nittany Medical Center) - Leiomyosarcoma, kidney
Pennsylvania (Pennsylvania Hospital Residents) - Leiomyosarcoma
Puerto Rico (University of Puerto Rico) - Leiomyosarcoma
South Dakota (University of South Dakota) - Leiomyosarcoma
Tennessee, Kingsport - Leiomyosarcoma
Texas , Lubbock - Leiomyosarcoma
Texas (Scott & White Memorial Hospital) - Leiomyosarcoma
Washington (Madigan Army Medical Center) - Leiomyosarcoma
West Virginia (Greenbrier Valley Medical Center) - Malignant fibrous histiocytoma
West Virginia (Wetzel County Hospital) - Angiomyolipoma with cellular pleomorphism
Australia (Royal Hobart Hospital) - Myxoid leiomyosarcoma
Australia (Sullivan Nicolaides Pathology) - Myxoid leiomyosarcoma
Canada (Pasqua Hospital) - Leiomyosarcoma
Canada (Sherbrooke University Hospital) - Leiomyosarcoma
Germany (UKE Hamburg) - Collecting duct carcinoma
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Leiomyosarcoma
India , Karnataka - Leiomyosarcoma
Ireland (Kerry General Hospital) - Renal leiomyosarcoma
Jamaica (The University of West Indies) - Myxoid leiomyosarcoma
Japan (Kyoto University Hospital) - Leiomyosarcoma, pleomorphic
Qatar (Hamad Medical Corporation) - Leiomyosarcoma
Saudi Arabia (King Fahad National Guard Hospital) - Leiomyosarcoma
Singapore (KK Women's & Childrens Hospital) - Leiomyosarcoma
United Kingdom (Oxford Study Group) - Leiomyosarcoma, skin

Case 9 - Diagnosis:

Leiomyosarcoma, kidney
T-71000, M-88903

Directors Note: Immunos plus increased number of mitotic figures, peri-nuclear vacuoles and pleomorphism secure the diagnosis. (drc)

Consultation: Dr. Ebrahimi, AFIP, "Leiomyosarcoma"

Case 9 – References:

Sharma D, Pradhan S, Aryya NC, et al. Leiomyosarcoma of Kidney. A Case Report with Long Term Result After Radiotherapy and Chemotherapy. *Int Urol Nephrol* 2007.
Dotan ZA, Tal R, Golijanin D, et al. Adult Genitourinary Sarcoma. The 25-Year Memorial Sloan-Kettering Experience. *J Urol* 2006; 176(5):2033-2038.
Inci O, Kaplan M, Yalcin O, et al. Renal Angiomyolipoma with Malignant Transformation, Simultaneous Occurrence with Malignity and Other Complex Clinical Situations. *Int Urol Nephrol* 2006.
Shvarts O, Han KR, Lam JS, et al. Primary Leiomyosarcoma of the Inferior Vena Cava Presenting as a Renal Mass. *Rev Urol* 2004; 6(1):39-42.
Komiyama M. A Case of Leiomyosarcoma Involving the Renal Hilus. *Jpn J Clin Oncol* 2006; 36(2):122.

Case No. 10, Accession No. 30336 **January 2007**

Alameda (Alameda County Medical Center) - Rhabdomyosarcoma
Arcadia (Garfield Medical Center) - Rhabdomyosarcoma
Chico - Embryonal rhabdomyosarcoma
Fontana (Kaiser Permanente) - Rhabdomyosarcoma
Glendale - Rhabdomyosarcoma
Granada Hills - Poorly differentiated epithelial tumor
Hayward/Fremont (St. Rose Hospital) - Rhabdomyosarcoma
Irvine (University of California Irvine) - Rhabdomyosarcoma
Long Beach - High grade rhabdomyosarcoma (2)
Monterey (Community Hospital of Monterey Peninsula) - Alveolar rhabdomyosarcoma
Oakland - Pleomorphic rhabdomyosarcoma
Orange (Orange County Pathology) - Rhabdomyosarcoma
Sacramento (UC Davis Residents) - Rhabdomyosarcoma
San Diego (Naval Medical Center) - Embryonal rhabdomyosarcoma
San Diego (Scripps Health) - Embryonal rhabdomyosarcoma
San Diego (UCSD Medical Center) - Rhabdomyosarcoma, embryonal
San Francisco (San Francisco General Hospital) - Rhabdomyosarcoma
San Francisco (UCSF Residents) - Pleomorphic rhabdomyosarcoma
Santa Barbara - Rhabdomyosarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Rhabdomyosarcoma (3)
Woodland Hills (Kaiser Permanente) - Pleomorphic rhabdomyosarcoma
Arkansas (University of Arkansas) - Rhabdomyosarcoma, paratesticular
Florida (Munroe Regional Medical Center) - Rhabdomyosarcoma
Florida (Winter Haven) - Rhabdomyosarcoma
Illinois (Heartland Regional Medical Center) - Spindle cell myogenic sarcoma, likely rhabdomyosarcoma
Illinois (Loyola University of Chicago) - Embryonal rhabdomyosarcoma
Illinois (MacNeal Hospital) - Rhabdomyosarcoma (2)
Indiana (Howard Regional Medical Center) - Rhabdomyosarcoma
Louisiana (Louisiana State University Health Science Center) - Inflammatory myofibroblastic tumor
Maryland (Northwest Hospital) - Rhabdomyosarcoma
Maryland (University of Maryland) - Rhabdosarcoma, embryonal
Massachusetts (Berkshire Medical Center) - Embryonal rhabdomyosarcoma
Massachusetts (University of Massachusetts) - Rhabdosarcoma, embryonal
Minnesota (Fairview Ridges Hospital) - Rhabdomyosarcoma, alveolar
Montana (Forensic Science Division) - Embryonal rhabdomyosarcoma
New Mexico (University of New Mexico) - Rhabdomyosarcoma
New York (Long Island Jewish Medical Center) - Rhabdomyosarcoma
New York (Nassau University Medical Center) - Rhabdomyosrcoma
New York (NY Stony Brook University Medical Center Residents) - Rhabdomyosarcoma
New York (SUNY Stony Brook) - Rhabdomyosarcoma
Oklahoma (Heartland Pathology Consultants) - Rhabdomyosarcoma
Oklahoma, Tulsa - Rhabdomyosarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Embryonal rhabdomyosarcoma
Pennsylvania (Drexel University College of Medicine) - Rhabdomyosarcoma
Pennsylvania (Lehigh Valley Hospital) - Embryonal rhabdomyosarcoma
Pennsylvania (Mt. Nittany Medical Center) - Rhabdomyosarcoma, testes
Pennsylvania (Pennsylvania Hospital Residents) - Rhabdomyosarcoma
Puerto Rico (University of Puerto Rico) - Rhabdomyosarcoma
South Dakota (University of South Dakota) - Embryonal rhabdomyosarcoma
Tennessee, Kingsport - Rhabdomyosarcoma
Texas , Lubbock - Embryonal rhabdomyosarcoma
Texas (Scott & White Memorial Hospital) - Rhabdomyosarcoma
Washington (Madigan Army Medical Center) - Embryonal rhabdomyosarcoma
West Virginia (Greenbrier Valley Medical Center) - Unclassified sarcoma
West Virginia (Wetzel County Hospital) - Alveolar rhabdomyocarcinoma
Australia (Royal Hobart Hospital) - Paratesticular spindle cell rhabdomyosarcoma
Australia (Sullivan Nicolaides Pathology) - Rhabdomyosarcoma
Canada (Pasqua Hospital) - Embryonal rhabdomyosarcoma

Canada (Sherbrooke University Hospital) - Rhabdomyosarcoma (embryonal type)
Germany (UKE Hamburg) - Cystic nephroma
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Rhabdomyosarcoma
India , Karnataka - Spindle cell rhabdomyosarcoma
Ireland (Kerry General Hospital) - Rhabdomyosarcoma
Jamaica (The University of West Indies) - Embryonal rhabdomyosarcoma
Japan (Kyoto University Hospital) - Rhabdomyosarcoma
Qatar (Hamad Medical Corporation) - Rhabdomyosarcoma, embryonal type
Saudi Arabia (King Fahad National Guard Hospital) - Rhabdomyosarcoma
Singapore (KK Women's & Childrens Hospital) - Rhabdomyosarcoma
United Kingdom (Oxford Study Group) - Undifferentiated sarcoma

Case 10 - Diagnosis:

Embryonal rhabdomyosarcoma, testis
T-78000, M-89003

Case 10 – References

Nascimento AF and Fletcher CD. Spindle Cell Rhabdomyosarcoma in Adults. *Am J of Surg Pathol* 2005; 29(8):1106-1113.
Croes R, Debiec-Rychter M, Cokelaere K, et al. Adult Sclerosing Rhabdomyosarcoma. Cytogenetic Link with Embryonal Rhabdomyosarcoma. *Virchows Archiv* 2005; 446(1):64-67.
Ferrari A, Dileo P, Casanova M, et al. Rhabdomyosarcoma in Adults. A Retrospective Analysis of 171 Patients Treated at a Single Institution. *Cancer* 2003; 98(3):571-580.
Sebire NJ and Malone M. Myogenin and MyoD1 Expression in Paediatric Rhabdomyosarcomas. *J of Clin Pathol* 2003; 56(6):412-416.
Hardaway CA, Graham BS, Barnette DJ, et al. Embryonal Rhabdomyosarcoma Presenting In An Adult. A Case Report and Discussion of Immunohistochemical Staining. *Am J of Dermatopathol* 2003; 25(1):45-52.

ERRATA: Corrected File Diagnosis

Case No. 6, Accession No. 30193 **November 2006 / Set A**

John K. Chan, Queen Elizabeth Hospital, Hong Kong. *"I think it belongs to a more specific variant of papillary carcinoma – the cribiform-morular variant. There are papillae, cribiform structures and morular structures (some cells with biotin inclusions). Colloid is absent, all fitting this variant. The significance of this variant is that if it is ulticentric, the possibility of familial adenomatous polyposis has to be excluded."*

Corrected file diagnosis: Cribiform-morular variant of papillary thyroid carcinoma