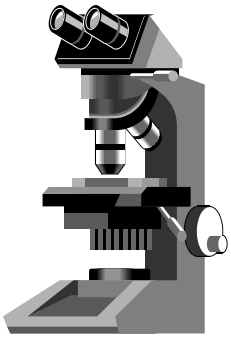
CALIFORNIA
TUMOR TISSUE REGISTRY

"Soft Tissue Tumors"

Minutes – Subscription B

January, 2007



SUGGESTED READING (General Topics from Recent Literature):

Are Tubulolobular Carcinomas of Breast More Like Tubular or Lobular Carcinoma? Esposito NN, Chivukula M and Dabbs DJ. *Mod Pathol* 2007; 20:130-138.

Low Risk, Localized Prostate Cancer Should be Treated, Not Watched. Wong Y-N and Mitra N, et al. *JAMA* 2006; 296:2683-2693.

Factors Indicative of Overall Recurrence for Atypical Lipomatous Tumors. Evans HL. *Am J Surg* 2007; 31:1-14.

DCIS & ADH. Uniformity & Variability. Ghofrani M, Tapia B and Tavassoli FA. *Virchows Arch* 2006; 449:609-616.

Intraductal Carcinoma of Prostate Can Indicate Aggressive Underlying Malignancy. Guo CC and Epstein JI. *Mod Pathol* 2006; 19:1528-1535.

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FILE DIAGNOSES

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

CTTR Subscription B

Case 1:
Vascular leiomyoma (angiomyoma), ankle/heel
T-79500, M-88900

Case 2:
Myxoid liposarcoma, thigh
T-Y9100, M-88523

Case 3:
Fibromatosis with keloid-like features, peri-renal
T-71000, M-76100

Case 4:
Chondrolipoma, ankle
T-Y9400, M-88500

Case 5:
Spindle cell lipoma, posterior neck
T-Y0600, M-88570

Case 6:
Poorly differentiated synovial sarcoma, buttock
T-Y1600, M-90403

Case 7:
Inflammatory malignant fibrous histiocytoma, thigh
T-Y9100, M-88303

Case 8:
Myxofibrosarcoma (myxoid MFH)/pleomorphic sarcoma with myxoid change, shoulder
T-Y1220, M-88103

Case 9:
Pleomorphic malignant fibrous histiocytoma/pleomorphic sarcoma, thigh
T-Y9100, M-88303

Case 10:
Malignant peripheral nerve sheath tumor, mediastinum
T-Y2300, M-94600

Case No. 1 - Accession No. 30442/30701 January, 2007

El Camino (El Camino Pathology) - Myopericytoma vs. vascular leiomyoma
Escondido - Angiomyoma
Glendale - Fibroma of tendon sheath
Palo Alto - Glomangioma
Sacramento (U.C. Davis Residents) - Hemangioendothelioma
San Diego (UCSD) - Angioleiomyoma
San Francisco (San Francisco General Hospital) - Hemangiopericytoma
San Francisco (UCSF) - Hemangioma with involutional changes
Arkansas (University of Arkansas) - Myopericytoma, heel/ankle
Florida (Munroe Regional Medical Center) - Spindle cell hemangioma
Florida (Winter Haven Hospital) - Angioleiomyoma
Georgia, Decatur - Angioleiomyoma
Illinois (Heartland Regional Medical Center) - Angiomyoma (vascular leiomyoma)
Kansas (Coffeyville Regional Medical Center) - Angiomyoma (vascular leiomyoma)
Kansas (Peterson Laboratory Services) - Angioleiomyoma
Kansas (Physicians Reference Laboratory) - Glomangiopericytoma
Kentucky (University of Louisville) - Angiomyoma
Louisiana (Louisiana State University Health Science Center) - Angioleiomyoma
Maryland (The John's Hopkins Hospital) - Angioleiomyoma
Maryland (University of Maryland Medical Center) - Angioleiomyoma
Massachusetts (UMASS Pathology Residents) - Angiomyoma
Montana (Forensic Science Division) - Fibroma of tendon sheath
New York (Nassau University Medical Center) - Glomus tumor
New York (NY Stony Brook University Medical Center Residents) - Vascular leiomyoma
New York (SUNY Downstate Medical Center) - Intravenous hemangioma vs. fibroma of tendon sheath
North Carolina (WFU Pathology Residents) - Epithelioid hemangioendothelioma
North Carolina (Womack Army Medical Center) - Angiomyoma
Ohio (Summit Pathology Association) - Intravascular hemangioma
Ohio (University of Toledo Residents/University Medical Center) - Angioleiomyoma
Pennsylvania (Conemaugh Memorial Medical Center) - Glomangiopericytoma
Pennsylvania (Wilkes-Barre General Hospital) - Hemangiopericytoma
Puerto Rico (University of Puerto Rico) - Vascular leiomyoma (angiomyoma)/retiform hemangioendothelioma
South Dakota (University of South Dakota) - Angiomyxolipoma
Texas (Baylor College of Medicine) - Angiomyoma
Texas, Lubbock - Hemangiopericytoma
Utah (University of Utah Pathology Residents) - Perineuroma
West Virginia (Wetzel County Hospital) - Glomangiomyoma/glomangiopericytoma
Australia (Sullivan Nicolaides Pathology) - Angioleiomyoma
Canada (Pasqua Hospital) - Angioleiomyoma
Canada (University Hospital of Sherbrooke) - Angioleiomyoma
China (Sir Run Run Shaw Hospital) - Myopericytoma (2)
China United Christian Hospital Residents) - Angioleiomyoma
India, Karnataka - Angiomyoma
Japan (Asahi General Hospital) - Vascular leiomyoma
Japan (Gunma University Hospital) - Myopericytoma
Japan (Hamamatsu (University School of Medicines) - Angioleiomyoma
Qatar (Hamad Medical Corporation) - Angiomyoma
Saudi Arabia (King Fahad National Guard Hospital) - Glomangiomyoma
Singapore (KK Women's and Children's Hospital) - Angiomyoma
Spain (Hospital Provisa) - Angioleiomyoma
United Kingdom (Oxford Study Group) - Angioleiomyoma, ankle/heel

Case 1 - Diagnosis:

Vascular leiomyoma (angiomyoma), ankle/heel
T-79500, M-88900

Case 1 - References:

Hanft JR, Carbonell JA and Do HQ. Angioleiomyoma of the Lower Extremity. *J Am Podiatr Med Assoc* 1997; 87(8):388-391.
Ramesh P, Annapureddy SR, Khan F, et al. Angioleiomyoma. A Clinical, Pathological and Radiological Review. *Inter J of Clin Prac* 2004; 58(6):587-591.

Domanski HA. Cytologic Features of Angioleiomyoma. Cytologic-Histologic Study of 10 Cases. *Diagn Cytopath* 2002; 27(3):161-166.
Baugh W, Quigley MM and Barrett TL. Palisaded Angioleiomyoma. *J of Cutaneous Pathol* 2000; 27(10):526-528.

Case No. 2 - Accession No. 30521 January, 2007

El Camino (El Camino Pathology) - Myxoid liposarcoma
Escondido - Myxoid liposarcoma
Glendale - Myxoid liposarcoma
Palo Alto - Liposarcoma
Sacramento (U.C. Davis Residents) - Myxoid liposarcoma
San Diego (UCSD) - Myxoid liposarcoma
San Francisco (San Francisco General Hospital) - Myxoid myolipoma
San Francisco (UCSF) - Myxoid liposarcoma
Arkansas (University of Arkansas) - Myxoid liposarcoma, thigh
Florida (Munroe Regional Medical Center) - Myxoid liposarcoma
Florida (Winter Haven Hospital) - Myxoid liposarcoma
Georgia, Decatur - Myxoid liposarcoma
Illinois (Heartland Regional Medical Center) - Myxoid liposarcoma
Kansas (Coffeyville Regional Medical Center) - Myxoid liposarcoma
Kansas (Peterson Laboratory Services) - Myxoid liposarcoma
Kansas (Physicians Reference Laboratory) - Myxoid liposarcoma
Kentucky (University of Louisville) - Myxoid liposarcoma
Louisiana (Louisiana State University Health Science Center) - Myxoid liposarcoma with round cell component
Maryland (The John's Hopkins Hospital) - Myxoid liposarcoma
Maryland (University of Maryland Medical Center) - Myxoid liposarcoma
Massachusetts (UMASS Pathology Residents) - Myxoid liposarcoma
Montana (Forensic Science Division) - Myxoid liposarcoma
New York (Nassau University Medical Center) - Myxoid liposarcoma
New York (NY Stony Brook University Medical Center Residents) - Myxoid liposarcoma
New York (SUNY Downstate Medical Center) - Myxoid liposarcoma vs. intramuscular lipoma with myxoid change
North Carolina (WFU Pathology Residents) - Myxoid liposarcoma
North Carolina (Womack Army Medical Center) - Myxoid liposarcoma
Ohio (Summit Pathology Association) - Myxoid liposarcoma
Ohio (University of Toledo Residents/University Medical Center) - Myxoid and sclerosing liposarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Myxoid liposarcoma
Pennsylvania (Wilkes-Barre General Hospital) - Myxoid lipoma
Puerto Rico (University of Puerto Rico) - Myxoid liposarcoma
South Dakota (University of South Dakota) - Myxoid liposarcoma
Texas (Baylor College of Medicine) - Mixed liposarcoma
Texas, Lubbock - Myxoid liposarcoma
Utah (University of Utah Pathology Residents) - Myxoid liposarcoma
West Virginia (Wetzel County Hospital) - Lipomyosarcoma
Australia (Sullivan Nicolaides Pathology) - Myxoid liposarcoma
Canada (Pasqua Hospital) - Fat with atrophic change
Canada (University Hospital of Sherbrooke) - Myxoid liposarcoma
China (Sir Run Run Shaw Hospital) - Chondroid lipoma (1): Intramuscular myxoid liposarcoma (1)
China United Christian Hospital Residents) - Myxoid liposarcoma (1)
India, Karnataka - Myxoid liposarcoma
Japan (Asahi General Hospital) - Myxoid liposarcoma
Japan (Gunma University Hospital) - Myxoid liposarcoma
Japan (Hamamatsu (University School of Medicines) - Myxoid liposarcoma
Qatar (Hamad Medical Corporation) - Myxoid liposarcoma
Saudi Arabia (King Fahad National Guard Hospital) - Chondroid lipoma
Singapore (KK Women's and Children's Hospital) - Myxoid liposarcoma
Spain (Hospital Provisa) - Myxoid liposarcoma
United Kingdom (Oxford Study Group) - Myxoid liposarcoma, right thigh

Case 2 - Diagnosis:

Myxoid liposarcoma, thigh
T-Y9100, M-88523

Outside Consultation: Dr. John Goldblum, "Myxoid liposarcoma."

Case 2 - References:

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

Dei Toa 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, et al. Combined Morphologic and Karyotypic Study of 28 Myxoid Liposarcomas. Implications for a Revised Morphologic Typing. (A Report from the CHAMP Group). *Am J Surg Pathol* 1996; 20(9):1047-1055.

ten Heuvel SE, Hoakstra HJ, van Ginkel RJ, et al. Clinicopathologic Prognostic Factors in Myxoid Liposarcoma. A Retrospective Study of 49 Patients with Long-Term Follow-Up. *Ann Surg Oncol* 2007; 14(1):222-229.

Evans HL. Atypical Lipomatous Tumor, Its Variants, and Its Combined Forms. A Study of 61 Cases, with a Minimum Follow-Up of 10 Years. *Am J Surg Pathol* 2007; 31(1):1-14.

Case No. 3 - Accession No. 30417 January, 2007

El Camino (El Camino Pathology) - Fibromatosis with keloidal features
Escondido - Fibromatosis
Glendale - Fibromatosis
Palo Alto - Fibromatosis
Sacramento (U.C. Davis Residents) - Fibromatosis
San Diego (UCSD) - Keloidal collagenoma
San Francisco (San Francisco General Hospital) - Keloidal scar
San Francisco (UCSF) - Fibromatosis
Arkansas (University of Arkansas) - Hypertrophic scar vs. desmoid-type fibromatosis, kidney/perirenal
Florida (Munroe Regional Medical Center) - Solitary fibrous tumor
Florida (Winter Haven Hospital) - Collagenous fibroma
Georgia, Decatur - Collagenous fibroma, rule out hypertrophic scar
Illinois (Heartland Regional Medical Center) - Retroperitoneal fibromatosis
Kansas (Coffeyville Regional Medical Center) - Adult rhabdomyoma
Kansas (Peterson Laboratory Services) - Fibromatosis
Kansas (Physicians Reference Laboratory) - Proliferative myositis
Kentucky (University of Louisville) - Fibromatosis
Louisiana (Louisiana State University Health Science Center) - Fibromatosis
Maryland (The John's Hopkins Hospital) - Fibromatosis
Maryland (University of Maryland Medical Center) - Desmoid-type fibromatosis
Massachusetts (UMASS Pathology Residents) - Fibromatosis
Montana (Forensic Science Division) - Desmoid fibromatosis
New York (Nassau University Medical Center) - Desmoid fibromatosis
New York (NY Stony Brook University Medical Center Residents) - Low-grade fibromyxoid sarcoma vs. reactive retroperitoneal fibrosis
New York (SUNY Downstate Medical Center) - Deep fibromatosis vs. keloid fibromatosis
North Carolina (WFU Pathology Residents) - Retroperitoneal fibromatosis
North Carolina (Womack Army Medical Center) - Retroperitoneal fibrosis
Ohio (Summit Pathology Association) - Fibromatosis consistent with keloid-like features
Ohio (University of Toledo Residents/University Medical Center) - Fibromatosis
Pennsylvania (Conemaugh Memorial Medical Center) - Desmoid fibromatosis
Pennsylvania (Wilkes-Barre General Hospital) - Fibromatosis
Puerto Rico (University of Puerto Rico) - Fibromatosis
South Dakota (University of South Dakota) - Retroperitoneal fibromatosis
Texas (Baylor College of Medicine) - Desmoid-type fibromatosis
Texas, Lubbock - Desmoid tumor
Utah (University of Utah Pathology Residents) - Desmoid tumor (fibromatosis)
West Virginia (Wetzel County Hospital) - Post operative spindle cell nodule
Australia (Sullivan Nicolaides Pathology) - Fibromatosis
Canada (Pasqua Hospital) - Keloid
Canada (University Hospital of Sherbrooke) - Fibromatosis
China (Sir Run Run Shaw Hospital) - Scar (1); Deep fibromatosis (1)
China United Christian Hospital Residents) - Fibromatosis
India, Karnataka - Intra-abdominal desmoid

Japan (Asahi General Hospital) - Intra-abdominal fibromatosis
Japan (Gunma University Hospital) - Nodular fasciitis
Japan (Hamamatsu (University School of Medicines) - Desmoid-type fibromatosis
Qatar (Hamad Medical Corporation) - Fibromatosis (4); Solitary fibrous tumor (4)
Saudi Arabia (King Fahad National Guard Hospital) - Fibromatosis
Singapore (KK Women's and Children's Hospital) - Retroperitoneal fibrosis
Spain (Hospital Provisa) - Inflammatory myofibroblastic tumor
United Kingdom (Oxford Study Group) - Fibromatosis, left retroperitoneum

Case 3 - Diagnosis:

Fibromatosis with keloid-like features, peri-renal
T-71000, M-76100

Director's Note: Tumor also closely resembles "hyaline fibromatosis". (drc)

Case 3 - References:

Montgomery E, Torbenson MS, Kaushal M, et al. Beta-Catenin Immunohistochemistry Separates Mesenteric Fibromatosis From Gastrointestinal Stromal Tumor and Sclerosing Mesenteritis. *Am J of Surg Pathol* 2002; 26(10):1296-1301.

Hartley JE, Church JA, Gupta S, et al. Significance of Incidental Desmoids Identified During Surgery For Familial Adenomatous Polyposis. *Dis of the Colon & Rectum*. 47(3):334-338.

Brandal P, Micci F, Bjerkehagen B, et al. Molecular Cytogenetic Characterization of Desmoid Tumors. *Cancer Genetics and Cytogenetics* 2003; 146(1):1-7.

Tryphonopoulos P, Weppler D, Levi DM, et al. Transplantation for the Treatment of Intra-Abdominal Fibromatosis. *Transplant Proc* 2005; 37(2):137691380.

Fujita K, Sugao H, Tsujikawa K, et al. Desmoid Tumor in a Scar from Radical Nephrectomy for Renal Cancer. *Int J Urol* 2003; 10(5):274-275.

Case No. 4 - Accession No. 30469 January, 2007

El Camino (El Camino Pathology) - Myxoid lipoma with cartilagenous metaplasia
Escondido - Atypical lipomatous tumor
Glendale - Myxoid lipoma
Palo Alto - Well-differentiated liposarcoma
Sacramento (U.C. Davis Residents) - Peristeal chondroma
San Diego (UCSD) - Fibromyolipoma
San Francisco (San Francisco General Hospital) - Soft tissue chondroma
San Francisco (UCSF) - Spindle cell lipoma
Arkansas (University of Arkansas) - Soft tissue chondroma, ankle
Florida (Munroe Regional Medical Center) - Angiolipoma
Florida (Winter Haven Hospital) - Spindle cell lipoma
Georgia, Decatur - Synovial lipoma
Illinois (Heartland Regional Medical Center) - Myxoid lipoma
Kansas (Coffeyville Regional Medical Center) - Agiolipoma with myxoid and chondroid elements
Kansas (Peterson Laboratory Services) - Chondroma
Kansas (Physicians Reference Laboratory) - Arteriovenous malformation
Kentucky (University of Louisville) - Extra-skeletal chondrosarcoma
Louisiana (Louisiana State University Health Science Center) - Chondroid lipoma
Maryland (The John's Hopkins Hospital) - Benign mesenchymoma (chondrolipoma) vs. chondroma
Maryland (University of Maryland Medical Center) - Chondroid lipoma
Massachusetts (UMASS Pathology Residents) - Angiomyxolipoma
Montana (Forensic Science Division) - Spindle cell lipoma
New York (Nassau University Medical Center) - Angiolipoma
New York (NY Stony Brook University Medical Center Residents) - Lipoma with myxoid change
New York (SUNY Downstate Medical Center) - Angiolipoma vs. angiomyolipoma
North Carolina (WFU Pathology Residents) - Synovial chondromatosis
North Carolina (Womack Army Medical Center) - Myxoid lipoma
Ohio (Summit Pathology Association) - Chondrolipoma
Ohio (University of Toledo Residents/University Medical Center) - Myxolipoma
Pennsylvania (Conemaugh Memorial Medical Center) - Angiomyxolipoma
Pennsylvania (Wilkes-Barre General Hospital) - Spindle cell lipoma

Puerto Rico (University of Puerto Rico) - Chondrolipoma/extra-skeletal/chondroma
South Dakota (University of South Dakota) - Angiomyxolipoma
Texas (Baylor College of Medicine) - Atypical lipomatous tumor
Texas, Lubbock - Liposarcoma
Utah (University of Utah Pathology Residents) - Angiomyolipoma
West Virginia (Wetzel County Hospital) - Angiomyxolipoma
Australia (Sullivan Nicolaides Pathology) - Extra-skeletal chondroma
Canada (Pasqua Hospital) - Angiolipoma
Canada (University Hospital of Sherbrooke) - Well-differentialed liposarcoma
China (Sir Run Run Shaw Hospital) - Synovial chondromatosis (1): Myxoid lipoma (1)
China United Christian Hospital Residents) - Angiolipoma
India, Karnataka - Angiolipoma
Japan (Asahi General Hospital) - Extra-skeletal chondroma
Japan (Gunma University Hospital) - Myxolipoma
Japan (Hamamatsu (University School of Medicines) - Lipoma
Qatar (Hamad Medical Corporation) - Angiomyolipoma (7); Hemangioma (3)
Saudi Arabia (King Fahad National Guard Hospital) - Chondroma
Singapore (KK Women's and Children's Hospital) - Soft tissue chondroma
Spain (Hospital Provisa) - Soft tissue chondroma
United Kingdom (Oxford Study Group) - Chondrolipoma, left ankle

Case 4 - Diagnosis:

Chondrolipoma, ankle
T-Y9400, M-88500

Case 4 - References:

Boltze C, Hribaschek A, Lippert H, et al. Intermuscular Chondroliopma of the Thigh. The Diagnostic Way of a Rare Entity. *Pathology, Research & Practice* 2003; 199(7):503-507.
Nakano M, Arai E, Nakajima Y, Nakamura H, et al. Immunohistochemical Study of Chondrolipoma. Possible Importance of Transforming Growth Factor (TGF)-Betas, Latent TGF-Beta Binding Protein-1 (LTBP-1), and Bone Morphogenetic Protein (BMP) For Chondrogenesis in Lipoma. *J of Derm* 2003; 30(3):189-195.
Perez MT and Alexis JB. Chondrolipoma of the Breast Presenting as Calcifications in a Routine Mammogram. *Histopathol* 1999; 35(2):189-191.
Nwaorgu OG, Akang EE, Ahmad BM, et al. Pharyngeal Lipoma with Cartilagenous Metaplasia (Chondrolipoma). A Case Report and Literature Review. *J of Laryngol & Otol* 1997; 111(7):656-658.
Ohtsuka H. Chondrolipoma of the Popliteal Fossa and Japanese Reports. *J Dermatol* 2006; 33(3):202-206.

Case No. 5 - Accession No. 30468 January, 2007

El Camino (El Camino Pathology) - Spindle cell lipoma
Escondido - Nuchal fibroma
Glendale - Spindle cell lipoma
Palo Alto - Well-differentiated sclerosing liposarcoma
Sacramento (U.C. Davis Residents) - Spindle cell lipoma
San Diego (UCSD) - Spindle cell lipoma
San Francisco (San Francisco General Hospital) - Fibrolipoma
San Francisco (UCSF) - Spindle cell lipoma
Arkansas (University of Arkansas) - Spindle cell lipoma, neck
Florida (Munroe Regional Medical Center) - Spindle cell lipoma
Florida (Winter Haven Hospital) - Solitary fibrous tumor
Georgia, Decatur - Lipoleiomyoma
Illinois (Heartland Regional Medical Center) - Spindle cell lipoma
Kansas (Coffeyville Regional Medical Center) - Spindle cell lipoma
Kansas (Peterson Laboratory Services) - Spindle cell lipoma
Kansas (Physicians Reference Laboratory) - Spindle cell lipoma
Kentucky (University of Louisville) - Spindle cell lipoma
Louisiana (Louisiana State University Health Science Center) - Spindle cell lipoma
Maryland (The John's Hopkins Hospital) - Spindle cell lipoma
Maryland (University of Maryland Medical Center) - Spindle cell lipoma
Massachusetts (UMASS Pathology Residents) - Spindle cell lipoma
Montana (Forensic Science Division) - Spindle cell lipoma

New York (Nassau University Medical Center) - Myolipoma
New York (NY Stony Brook University Medical Center Residents) - Spindle cell lipoma
New York (SUNY Downstate Medical Center) - Spindle cell lipoma
North Carolina (WFU Pathology Residents) - Spindle cell lipoma
North Carolina (Womack Army Medical Center) - Spindle cell lipoma
Ohio (Summit Pathology Association) - Fibrolipoma (vs. nuchal fibroma)
Ohio (University of Toledo Residents/University Medical Center) - Spindle cell lipoma
Pennsylvania (Conemaugh Memorial Medical Center) - Spindle cell lipoma
Pennsylvania (Wilkes-Barre General Hospital) - Spindle cell lipoma
Puerto Rico (University of Puerto Rico) - Fibrolipoma
South Dakota (University of South Dakota) - Spindle cell lipoma
Texas (Baylor College of Medicine) - Spindle cell lipoma
Texas, Lubbock - Spindle cell lipoma
Utah (University of Utah Pathology Residents) - Spindle cell lipoma
West Virginia (Wetzel County Hospital) - Spindle cell lipoma
Australia (Sullivan Nicolaides Pathology) - Spindle cell lipoma
Canada (Pasqua Hospital) - Spindle cell lipoma
Canada (University Hospital of Sherbrooke) - Spindle cell lipoma
China (Sir Run Run Shaw Hospital) - Spindle cell lipoma (2)
China United Christian Hospital Residents) - Spindle cell lipoma
India, Karnataka - Fibrolipoma
Japan (Asahi General Hospital) - Fibrolipoma
Japan (Gunma University Hospital) - Spindle cell lipoma
Japan (Hamamatsu (University School of Medicines) - Spindle cell lipoma
Qatar (Hamad Medical Corporation) - Spindle cell lipoma
Saudi Arabia (King Fahad National Guard Hospital) - Fibrolipoma
Singapore (KK Women's and Children's Hospital) - Spindle cell lipoma
Spain (Hospital Provisa) - Angiomyolipoma
United Kingdom (Oxford Study Group) - Spindle cell lipoma, rt posterior neck

Case 5 - Diagnosis:

Spindle cell lipoma, posterior neck
T-Y0600, M-88570

Case 5 - References:

Senen D, Adanali G, Sevin A, et al. Buffalo Hump. Spindle Cell lipoma in Posterior Part of the Neck. *Dermatol Surg* 2007; 33(1):73-75.
Siddiqui MA, Su L, Michael CW, et al. Synchronous Ordinary Lipoma and Spindle-Cell Lipoma Diagnosed By Fine Needle Aspiration. *Diagn Cytopathol* 2006; 34(6):455-456.
Ghazanfari A and Oppenheimer R. Massive Spindle Cell Lipoma. *Otolaryngol Head Neck Surg* 2006; 134(1):164-165.
Matsushima N, Maeda M and Takeda K. Dermal Spindle Cell Lipoma of the Posterior Neck. CT and MR Findings. *Eur Radiol* 2003; 13(Suppl 4):241-242.
Domanski HA, Carlen B, Jansson K, et al. Distinct Cytologic Features of Spindle Cell Lipoma. A Cytologic-Histologic Study With Clinical, Radiologic, Electron Microscopic, and Cytogenetic Correlations. *Cancer* 2001; 93(6):381-389.

Case No. 6 - Accession No. 30424 January, 2007

El Camino (El Camino Pathology) - Synovial sarcoma, poorly differentiated
Escondido - Synovial sarcoma
Glendale - Synovial sarcoma
Palo Alto - Alveolar sarcoma of soft parts
Sacramento (U.C. Davis Residents) - Synovial sarcoma
San Diego (UCSD) - Synovial sarcoma
San Francisco (San Francisco General Hospital) - Paraganglioma
San Francisco (UCSF) - Epithelioid malignant peripheral nerve sheath tumor
Arkansas (University of Arkansas) - Synovial sarcoma, buttock
Florida (Munroe Regional Medical Center) - Monophasic synovial sarcoma
Florida (Winter Haven Hospital) - Synovial sarcoma
Georgia, Decatur - Epithelioid MPSNT, rule out synovial sarcoma
Illinois (Heartland Regional Medical Center) - Synovial sarcoma
Kansas (Coffeyville Regional Medical Center) - Ewing's sarcoma (PPNET)

Kansas (Peterson Laboratory Services) - Synovial sarcoma
Kansas (Physicians Reference Laboratory) - Monophasic synovial sarcoma
Kentucky (University of Louisville) - Synovial sarcoma
Louisiana (Louisiana State University Health Science Center) - Synovial sarcoma, monophasic
Maryland (The John's Hopkins Hospital) - Synovial sarcoma
Maryland (University of Maryland Medical Center) - Synovial sarcoma
Massachusetts (UMASS Pathology Residents) - Alveolar rhabdomyosarcoma
Montana (Forensic Science Division) - Monophasic synovial sarcoma
New York (Nassau University Medical Center) - Solitary fibrous tumor
New York (NY Stony Brook University Medical Center Residents) - Merkel cell carcinoma
New York (SUNY Downstate Medical Center) - Synovial sarcoma
North Carolina (WFU Pathology Residents) - Synovial sarcoma
North Carolina (Womack Army Medical Center) - Peripheral neuroectodermal tumor
Ohio (Summit Pathology Association) - Aleolar rhabdosarcoma
Ohio (University of Toledo Residents/University Medical Center) - Synovial sarcoma, biphasic
Pennsylvania (Conemaugh Memorial Medical Center) - Synovial sarcoma
Pennsylvania (Wilkes-Barre General Hospital) - Synovial sarcoma, monophasic
Puerto Rico (University of Puerto Rico) - Fibrolipoma
South Dakota (University of South Dakota) - Desmoplastic small round cell tumor
Texas (Baylor College of Medicine) - Synovial sarcoma
Texas, Lubbock - Synoviosarcoma
Utah (University of Utah Pathology Residents) - Synovial sarcoma
West Virginia (Wetzel County Hospital) - Alveolar rhabdomyosarcoma
Australia (Sullivan Nicolaides Pathology) - Poorly differentiated synovial sarcoma
Canada (Pasqua Hospital) - Synovial sarcoma
Canada (University Hospital of Sherbrooke) - PNET
China (Sir Run Run Shaw Hospital) - Synovial sarcoma (1); Monomorphic synovial sarcoma (1)
China United Christian Hospital Residents) - Synovial sarcoma
India, Karnataka - Synovial sarcoma (epithelial/epitheloid malignant peripheral nerve sheath tumor)
Japan (Asahi General Hospital) - Paraganglioma
Japan (Gunma University Hospital) - Poorly differentiated synovial sarcoma
Japan (Hamamatsu (University School of Medicines) - Merkel cell carcinoma
Qatar (Hamad Medical Corporation) - Synovial sarcoma
Saudi Arabia (King Fahad National Guard Hospital) - Synovial sarcoma, biphasic
Singapore (KK Women's and Children's Hospital) - Synovial sarcoma
Spain (Hospital Provisa) - Synovial sarcoma
United Kingdom (Oxford Study Group) - Synovial sarcoma, buttock

Case 6 - Diagnosis:

Poorly differentiated synovial sarcoma, buttock
T-Y1600, M-90403

Outside Consultation: Sharon Weiss, M.D.; Emery University: "Poorly-differentiated synovial sarcoma."

Case 6 - References:

Hoglund M, Gisselsson D, Mandahl N, et al. Ewing Tumours and Synovial Sarcomas Have Critical Features of Karyotype Evolution in Common with Epithelial Tumours. *Int J Cancer* 2005; 116(3):401-406.

Albritton KH and Randall RL. Prospects For Targeted Therapy of Synovial Sarcoma. *J Pedia Hem Oncol* 2005; 27(4):219-222.

Guillou L, Benhattar J, et al. Histologic Grade, But Not SYT-SSX Fusion Type, Is An Important Prognostic Factor in Patients with Synovial Sarcoma. A Multicenter, Retrospective Analysis. *J Clin Oncol* 2004; 22:4031-4034.

Campbell C, Gallagher J and Dickinson I. Synovial Sarcoma—Towards A Simplified Approach to Prognosis. *ANZ J Surg* 2005; 75(6):501.

de Silva MV, McMahon AD and Reid R. Prognostic Factors Associated with Local Recurrence, Metastases, and Tumor-Related Death in Patients with Synovial Sarcoma. *Am J Clin Oncol* 2004; 27(20:113-121.

Case No. 7 - Accession No. 30432 January, 2007

El Camino (El Camino Pathology) - Malignant fibrous histiocytoma
Escondido - Malignant fibrous histiocytoma

Glendale - Pleomorphic leiomyosarcoma
Palo Alto - Sarcoma possibly leiomyosarcoma
Sacramento (U.C. Davis Residents) - Leiomyosarcoma
San Diego (UCSD) - Pleomorphic spindle cell sarcoma
San Francisco (San Francisco General Hospital) - Malignant fibrous histiocytoma
San Francisco (UCSF) - Inflammatory malignant fibrous histiocytoma
Arkansas (University of Arkansas) - Inflammatory malignant fibrous histiocytoma (pleomorphic sarcoma) thigh
Florida (Munroe Regional Medical Center) - Rhadbomyosarcoma
Florida (Winter Haven Hospital) - Malignant fibrous histiocytoma
Georgia, Decatur - Inflammatory malignant fibrous histiocytoma
Illinois (Heartland Regional Medical Center) - Malignant fibrous histiocytoma
Kansas (Coffeyville Regional Medical Center) - Adult pleomorphic rhabdomyosarcoma
Kansas (Peterson Laboratory Services) - Leiomyosarcoma
Kansas (Physicians Reference Laboratory) - Inflammatory myxohyaline tumor
Kentucky (University of Louisville) - Pleomorphic leiomyosarcoma
Louisiana (Louisiana State University Health Science Center) - Pleomorphic rhabdomyosarcoma
Maryland (The John's Hopkins Hospital) - Leiomyosarcoma, high grade
Maryland (University of Maryland Medical Center) - Inflammatory myxohyaline tumor vs. malignant fibrous histiocytoma, inflammatory type
Massachusetts (UMASS Pathology Residents) - Inflammatory leiomyosarcoma
Montana (Forensic Science Division) - Leiomyosarcoma
New York (Nassau University Medical Center) - Leiomyosarcoma
New York (NY Stony Brook University Medical Center Residents) - Inflammatory myofibroblastic tumor
New York (SUNY Downstate Medical Center) - Malignant fibrous histiocytoma, pleomorphic vs. inflammatory
North Carolina (WFU Pathology Residents) - Inflammatory malignant fibrous histiocytoma
North Carolina (Womack Army Medical Center) - High grade sarcoma
Ohio (Summit Pathology Association) - Pleomorphic malignant fibrous histiocytoma
Ohio (University of Toledo Residents/University Medical Center) - Inflammatory and pleomorphic malignant fibrous histiocytoma
Pennsylvania (Conemaugh Memorial Medical Center) - Pleomorphic malignant fibrous histiocytoma
Pennsylvania (Wilkes-Barre General Hospital) - Inflammatory malignant fibrous histiocytoma
Puerto Rico (University of Puerto Rico) - Cutaneous meningioma/PNET
South Dakota (University of South Dakota) - Inflammatory malignant fibrous histiocytoma
Texas (Baylor College of Medicine) - Proliferative fasciitis
Texas, Lubbock - Rhabdomyosarcoma
Utah (University of Utah Pathology Residents) - Inflammatory myxohyaline tumor
West Virginia (Wetzel County Hospital) - Inflammatory leiomyosarcoma
Australia (Sullivan Nicolaides Pathology) - Inflammatory malignant fibrous histiocytoma
Canada (Pasqua Hospital) - Inflammatory myofibroblastic tumor
Canada (University Hospital of Sherbrooke) - Inflammatory myofibroblastic tumor/inflammatory malignant fibrous histiocytoma
China (Sir Run Run Shaw Hospital) - Inflammatory malignant fibrous histiocytoma (1): Inflammatory myofibrosarcoma (1)
China United Christian Hospital Residents) - Malignant fibrous histiocytoma
India, Karnataka - Inflammatory myofibroblastic tumor
Japan (Asahi General Hospital) - Inflammatory malignant fibrous histiocytoma
Japan (Gunma University Hospital) - Inflammatory leiomyosarcoma
Japan (Hamamatsu (University School of Medicines) - Dedifferentiated leiomyosarcoma
Qatar (Hamad Medical Corporation) - Inflammatory malignant fibrous histiocytoma
Saudi Arabia (King Fahad National Guard Hospital) - Inflammatory myofibroblastic tumor
Singapore (KK Women's and Children's Hospital) - Inflammatory malignant fibrous histiocytoma, DDx inflammatory myofibroblastic tumor
Spain (Hospital Provisa) - Undifferentiated pleomorphic sarcoma with giant cell/GCMFH
United Kingdom (Oxford Study Group) - Inflammatory myofibroblastic sarcoma, left thigh

Case 7 - Diagnosis:

Inflammatory malignant fibrous histiocytoma, thigh
T-Y9100, M-88303

Case 7 - References:

Kuhlman JE, Hruban RH, Almaraz R, et al. Malignant Fibrous Histiocytoma of Thigh and Liposarcoma in Same Lower Extremity (Synchroneous Lesions). *Skeletal Radiol* 1988; 17(7):518-521.
Saikia UN, Gupta N, Bansal D, et al. Malignant Fibrous Histioctyoma (Inflammatory Variant) In a Child Presenting as Paraparesis. *Fetal & Pediatric Pathol* 2004; 23(5-6):319-323.

Coindre JM, Hostein I, Maire G, et al. Inflammatory Malignant Fibrous Histiocytomas and Dedifferentiated Liposarcomas. Histological Review, Genomic Profile, and MDM 2 and CDK4 Status Favour a Single Entity. *J of Pathol* 2004; 203(3):822-830.

Hisaoka M, Tsuji S, Hashimoto H, et al. Dedifferentiated Liposarcoma with an Inflammatory Malignant Fibrous Histiocytoma-Like Component Presenting a Leukemoid Reaction. *Pathol Inter* 1997; 47(9):642-646.

Case No. 8 - Accession No. 30428 January, 2007

El Camino (El Camino Pathology) - Myofibrosarcoma
Escondido - Liposarcoma
Glendale - Pleomorphic lipoma
Palo Alto - Myxoid liposarcoma
Sacramento (U.C. Davis Residents) - Liposarcoma
San Diego (UCSD) - Myxofibrosarcoma
San Francisco (San Francisco General Hospital) - Myxoid liposarcoma
San Francisco (UCSF) - Pleomorphic liposarcoma
Arkansas (University of Arkansas) - Myxofibrosarcoma, arm/shoulder
Florida (Munroe Regional Medical Center) - Pleomorphic lipoma
Florida (Winter Haven Hospital) - Liposarcoma
Georgia, Decatur - Nodular fasciitis
Illinois (Heartland Regional Medical Center) - Spindle cell malignant neoplasm (sarcoma vs. metastatic metaplastic breast carcinoma)
Kansas (Coffeyville Regional Medical Center) - Myxoid variant of malignant fibrous histiocytoma
Kansas (Peterson Laboratory Services) - Atypical lipomatous tumor
Kansas (Physicians Reference Laboratory) - Dedifferentiated liposarcoma
Kentucky (University of Louisville) - Dedifferentiated liposarcoma vs. myxofibrosarcoma
Louisiana (Louisiana State University Health Science Center) - Myxoid fibrosarcoma
Maryland (The John's Hopkins Hospital) - Dedifferentiated liposarcoma
Maryland (University of Maryland Medical Center) - Myxoid malignant fibrous histiocytoma
Massachusetts (UMASS Pathology Residents) - Pleomorphic liposarcoma
Montana (Forensic Science Division) - Pleomorphic lipoma
New York (Nassau University Medical Center) - Angiosarcoma
New York (NY Stony Brook University Medical Center Residents) - Dedifferentiated liposarcoma
New York (SUNY Downstate Medical Center) - Liposarcoma (1): Dedifferentiated liposarcoma vs. pleomorphic liposarcoma (1)
North Carolina (WFU Pathology Residents) - Myxoid/round cell liposarcoma
North Carolina (Womack Army Medical Center) - Myxoid malignant fibrous histiocytoma
Ohio (Summit Pathology Association) - Mixed liposarcoma
Ohio (University of Toledo Residents/University Medical Center) - Liposarcoma with dedifferentiation
Pennsylvania (Conemaugh Memorial Medical Center) - Myxoid malignant fibrous histiocytoma
Pennsylvania (Wilkes-Barre General Hospital) - Dedifferentiated liposarcoma
Puerto Rico (University of Puerto Rico) - Dedifferentiated liposarcoma
South Dakota (University of South Dakota) - Metaplastic carcinoma
Texas (Baylor College of Medicine) - Pleomorphic liposarcoma
Texas, Lubbock - Liposarcoma
Utah (University of Utah Pathology Residents) - Dedifferentiated liposarcoma
West Virginia (Wetzel County Hospital) - Myxoid malignant fibrous histiocytoma
Australia (Sullivan Nicolaides Pathology) - Myxoid liposarcoma
Canada (Pasqua Hospital) - Dedifferentiated liposarcoma
Canada (University Hospital of Sherbrooke) - Myxofibrosarcoma
China (Sir Run Run Shaw Hospital) - Myxoid liposarcoma (2)
China United Christian Hospital Residents) - Myxoid liposarcoma
India, Karnataka - Dedifferentiated leiomyosarcoma
Japan (Asahi General Hospital) - Pleomorphic lipoma
Japan (Gunma University Hospital) - Myxofibrosarcoma
Japan (Hamamatsu (University School of Medicines) - Myxoid liposarcoma
Qatar (Hamad Medical Corporation) - Pleomorphic sarcoma most probably myxoid malignant fibrous histiocytoma, if mammary sarcoma is excluded
Saudi Arabia (King Fahad National Guard Hospital) - Pleomorphic lipoma
Singapore (KK Women's and Children's Hospital) - Myxoid malignant fibrous histiocytoma
Spain (Hospital Provisa) - Pleomorphic liposarcoma
United Kingdom (Oxford Study Group) - Myxoid malignant fibrous histiocytoma (myxofibrosarcoma)

Case 8 - Diagnosis:

Myxofibrosarcoma (myxoid MFH)/pleomorphic sarcoma with myxoid change, shoulder
T-Y1220, M-88103

Case 8 - References:

Wada T, Hasegawa T, Nagoya S, et al. Myxofibrosarcoma with an Infiltrative Growth Pattern. A Case Report. *Jpn J Clin Oncol* 2000; 30(10):458-462.

Kilpatrick SE, Ward WG and Bos GD. The Value of Fine-Needle Aspiration Biopsy in the Differential Diagnosis of Adult Myxoid Sarcoma. *Cancer* 2000; 90(3):167-177.

Hisaoka M, Morimitsu Y, Hashimoto H, et al. Retroperitoneal Liposarcoma with Combined Well-Differentiated and Myxoid Malignant Fibrous Histiocytoma-Like Myxoid Areas. *Am J Surg Pathol* 1999; 23(12):1480-1492.

Kilpatrick SE and Ward WG. Myxofibrosarcoma of Soft Tissues. Cytomorphologic Analysis of a Series. *Diagn Cytopathol* 1999; 20(1):6-9.

Mentzel T, Calonje E, Wadden C, et al. Myxofibrosarcoma. Clinicopathologic Analysis of 75 Cases with Emphasis on the Low-Grade Variant. *Am J Surg Pathol* 1996; 20(4):391-405.

Case No. 9 - Accession No. 30394 January, 2007

El Camino (El Camino Pathology) - Malignant fibrous histiocytoma, pleomorphic type
Escondido - Pleomorphic malignant fibrous histiocytoma
Glendale - Pleomorphic malignant fibrous histiocytoma
Palo Alto - High grade sarcoma, possibly malignant fibrous histiocytoma
Sacramento (U.C. Davis Residents) - Malignant fibrous histiocytoma
San Diego (UCSD) - Pleomorphic sarcoma
San Francisco (San Francisco General Hospital) - Dedifferentiated liposarcoma
San Francisco (UCSF) - Ancient schwannoma
Arkansas (University of Arkansas) - Pleomorphic high grade sarcoma (malignant fibrous histiocytoma), thigh
Florida (Munroe Regional Medical Center) - Symplastic leiomyoma
Florida (Winter Haven Hospital) - Pleomorphic sarcoma
Georgia, Decatur - Pleomorphic sarcoma, r/o pleomorphic liposarcoma
Illinois (Heartland Regional Medical Center) - Pleomorphic liposarcoma
Kansas (Coffeyville Regional Medical Center) - Pleomorphic variant of malignant fibrous histiocytoma
Kansas (Peterson Laboratory Services) - High grade sarcoma
Kansas (Physicians Reference Laboratory) - Pleomorphic rhabdomyosarcoma
Kentucky (University of Louisville) -Pleomorphic liposarcoma
Louisiana (Louisiana State University Health Science Center) - Dedifferentiated liposarcoma
Maryland (The John's Hopkins Hospital) - Malignant fibrous histiocytoma
Maryland (University of Maryland Medical Center) - Pleomorphic liposarcoma vs. pleomorphic malignant fibrous histiocytoma
Massachusetts (UMASS Pathology Residents) - Pleomorphic rhabdomyosarcoma
Montana (Forensic Science Division) - Pleomorphic sarcoma
New York (Nassau University Medical Center) - Pleommorphic malignant fibrous histiocytoma
New York (NY Stony Brook University Medical Center Residents) - High grade sarcoma, NOS
New York (SUNY Downstate Medical Center) - Malignant fibrous histiocytoma
North Carolina (WFU Pathology Residents) - High grade pleomorphic sarcoma
North Carolina (Womack Army Medical Center) - Malignant fibrous histiocytoma
Ohio (Summit Pathology Association) - Leiomyosarcoma
Ohio (University of Toledo Residents/University Medical Center) - Pleomorphic malignant fibrous histiocytoma
Pennsylvania (Conemaugh Memorial Medical Center) - Pleomorphic rhabdomyosarcoma
Pennsylvania (Wilkes-Barre General Hospital) - Pleomorphic sarcoma, ? rhabdosarcoma
Puerto Rico (University of Puerto Rico) - Dedifferentiated liposarcoma, malignant fibrous histiocytoma
South Dakota (University of South Dakota) - Poorly differentiated sarcoma
Texas (Baylor College of Medicine) - Undifferentiated high grade pleomorphic sarcoma
Texas, Lubbock - Malignant neurilemmoma
Utah (University of Utah Pathology Residents) - Giant cell rich malignant fibrous histiocytoma
West Virginia (Wetzel County Hospital) - Malignant fibrous histiocytoma
Australia (Sullivan Nicolaides Pathology) - Pleomorphic malignant fibrous histiocytoma
Canada (Pasqua Hospital) - Leiomyosarcoma
Canada (University Hospital of Sherbrooke) - Proliferative myositis/fasciitis
China (Sir Run Run Shaw Hospital) - Undifferentiated high grade pleomorphic sarcoma (1); Pleomorphic liposarcoma (1)
China United Christian Hospital Residents) - High grade sarcoma, malignant fibrous histiocytoma (1)

India, Karnataka - Pleomorphic sarcoma
Japan (Asahi General Hospital) - Malignant fibrous histiocytoma, pleomorphic type
Japan (Gunma University Hospital) - Malignant fibrous histiocytoma
Japan (Hamamatsu (University School of Medicines) - Pleomorphic malignant fibrous histiocytoma
Qatar (Hamad Medical Corporation) - High grade pleomorphic leiomyosarcoma
Saudi Arabia (King Fahad National Guard Hospital) - Pleomorphic liposarcoma
Singapore (KK Women's and Children's Hospital) - Pleomorphic hyalinizing angiectatic tumor, DDx pleomorphic sarcoma (look very carefully for mitoses)
Spain (Hospital Provisa) - Pleomorphic malignant fibrous histiocytoma/undifferentiated high grade pleomorphic sarcoma
United Kingdom (Oxford Study Group) - Pleomorphic liposarcoma, left anterior thigh

Case 9 - Diagnosis:

Pleomorphic malignant fibrous histiocytoma/pleomorphic sarcoma, thigh
T-Y9100, M-88303

Case 9 - References:

Meister P. Malignant Fibrous Histiocytoma Pleomorphic Sarcoma NOS or Pleomorphic Fibrosarcoma). *Pathologe* (Germany), 2005; 26(2):127-133.
Massi D, Beltrami G, Capanna R, et al. Histopathological Re-Classification of Extremity Pleomorphic Soft Tissue Sarcoma has Clinical Relevance. *Eur J Surg Oncol* 2004; 30(10):1131-1136.
Kindblom LG, Widehn S, Meis-Kindblom JM, et al. The Role of Electron Microscopy in the Diagnosis of Pleomorphic Sarcomas of Soft Tissue. *Semin Diagn Pathol* 2003; 20(1):72-81.

Case No. 10 - Accession No. 30394 January, 2007

El Camino (El Camino Pathology) - Primary sarcoma of lung
Escondido - Inflammatory myofibroblastic tumor
Glendale - Fibrosarcoma
Palo Alto - Inflammatory malignant fibrous histiocytoma vs. chondrosarcoma
Sacramento (U.C. Davis Residents) - Malignant peripheral nerve sheath tumor
San Diego (UCSD) - Spindle cell sarcoma
San Francisco (San Francisco General Hospital) - Solitary fibrous tumor
San Francisco (UCSF) - High grade sarcoma
Arkansas (University of Arkansas) - Fibrosarcoma, mediastinum
Florida (Munroe Regional Medical Center) - Fibromatosis
Florida (Winter Haven Hospital) - Low grade fibromyxoid sarcoma
Georgia, Decatur - Inflammatory myofibroblastic tumor
Illinois (Heartland Regional Medical Center) - Malignant peripheral nerve sheath tumor
Kansas (Coffeyville Regional Medical Center) - Solitary fibrous tumor
Kansas (Peterson Laboratory Services) - Fibrosarcoma
Kansas (Physicians Reference Laboratory - Malignant peripheral nerve sheath tumor
Kentucky (University of Louisville) - Malignant peripheral nerve sheath tumor
Louisiana (Louisiana State University Health Science Center) - Malignant peripheral nerve sheath tumor, epithelioid
Maryland (The John's Hopkins Hospital) - Inflammatory pseudotumor
Maryland (University of Maryland Medical Center) - Hyalinizing spindle cell tumor with giant cell rosettes (low-grade fibromyxoid sarcoma)
Massachusetts (UMASS Pathology Residents) - Inflammatory myofibroblastic tumor
Montana (Forensic Science Division) - Malignant fibrous histiocytoma
New York (Nassau University Medical Center) - Follicular dendritic cell sarcoma
New York (NY Stony Brook University Medical Center Residents) - Malignant peripheral nerve sheath tumor
New York (SUNY Downstate Medical Center) - Malignant peripheral nerve sheath tumor
North Carolina (WFU Pathology Residents) - Malignant peripheral nerve sheath tumor
North Carolina (Womack Army Medical Center) - Malignant fibrous histiocytoma
Ohio (Summit Pathology Association) - Peripheral nerve sheath tumor
Ohio (University of Toledo Residents/University Medical Center) - Chondromyxoid fibroma
Pennsylvania (Conemaugh Memorial Medical Center) - Malignant peripheral nerve sheath tumor
Pennsylvania (Wilkes-Barre General Hospital) - Primary pulmonary hyalinizing granuloma
Puerto Rico (University of Puerto Rico) - Giant cell malignant fibrous histiocytoma
South Dakota (University of South Dakota) - Sarcomatoid mesothelioma
Texas (Baylor College of Medicine) - Metastatic sclerosing epithelioid fibrosarcoma
Texas, Lubbock - Malignant fibrous histiocytoma

Utah (University of Utah Pathology Residents) - Hylinizing spindle cell tumor
West Virginia (Wetzel County Hospital) - Langerhans' cell histiocytosis
Australia (Sullivan Nicolaides Pathology) - Low grade sarcoma
Canada (Pasqua Hospital) - Malignant peripheral nerve sheath tumor
Canada (University Hospital of Sherbrooke) - Pseudotumor myofibroblastic inflammatory
China (Sir Run Run Shaw Hospital) - Malignant peripheral nerve sheath tumor (1); Low grade fibrosarcoma (1)
China (United Christian Hospital Residents) - Malignant peripheral nerve sheath tumor
India, Karnataka - Malignant peripheral nerve sheath tumor/biphasic mesothelioma
Japan (Asahi General Hospital) - Malignant peripheral nerve sheath tumor
Japan (Gunma University Hospital) - Malignant peripheral nerve sheath tumor
Japan (Hamamatsu University School of Medicine) - Sclerosing epithelioid fibrosarcoma
Qatar (Hamad Medical Corporation) - Malignant peripheral nerve sheath tumor
Saudi Arabia (King Fahad National Guary Hospital) - Ancient schwannoma
Singapore (KK Women's and Children's Hospital) - Malignant peripheral nerve sheath tumor
Spain (Hospital Provisa) - Malignant peripheral nerve sheath tumor
United Kingdom (Oxford Study Group) - Malignant peripheral nerve sheath tumor, mediastinum

Case 10 - Diagnosis:

Malignant peripheral nerve sheath tumor, mediastinum
T-Y2300, M-95600

Outside Consultation: Andre Oliveira, M.D., Mayo Clinic Rochester: "High grade spindle cell sarcoma, most consistent with MPNST".

Case 10 - References:

Matsunou H, Shumoda T, Takimoto S, et al. Histopathologic and Immunohistochemical Study of Malignant Tumors of Peripheral Nerve Sheath (Malignant Schwannoma). *Cancer* 1985; 56:2269-2274.

Wick MR, Swanson RE, Scheithauer BW, et al. Malignant Peripheral Nerve Sheath Tumor. An Immunohistochemical Study of 62 Cases. *Am J Clin Pathol* 1987; 87:425-432.

Johnson MD, Glick AD and Davis BW. Immunohistochemical Evaluation of Leu 7, Myelin Basic Protein S-100 Protein, Glial Fibrillary Acidic Protein, and LN3 Immunoreactivity in Nerve Sheath Tumor and Sarcomas. *Arch Pathol Lab* 1988; 112:155-160.

Hirose T, Scheithauer BW and Sano T. Perineural Malignant Peripheral Nerve Sheath Tumor (MPNST). A Clinicopathological Immunohistochemical and Ultrastructural Study of Seven Cases. *Am J Surg Pathol* 1998; 22:1368-1378.