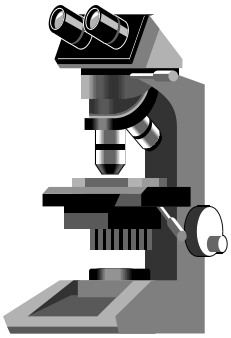
CALIFORNIA
TUMOR TISSUE REGISTRY

SOFT TISSUE PATHOLOGY

Minutes – Subscription B

January 2001



SUGGESTED READING (General Topics from Recent Literature):

The New Biology. Histopathology. Quirke P and Mapstone N. *Lancet* 1999; Jul 354 Suppl 1:S126-131.

A Clinicopathologic Study of Minimally Invasive Follicular Carcinoma of the Thyroid Gland with a Review of the English Literature. Thompson, LDR, Wieneke JA, Paal E, et al. *Cancer* 2001; 91:505-524.

Molecular Pathology of Soft Tissue and Bone Tumors. A Review. Slominski A, Wortsman J, Carslon A, et al. *Arch Pathol Lab Med* 1999; 123(12):1246-1259.

Keratin 20: Immunohistochemical Marker for Gastrointestinal, Urothelial and Merkel Cell Carcinomas. Miettinen M. *Modern Pathol Med* 1995; 8(4):384-388.

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FILE DIAGNOSES

CTTR Subscription B January 2001

Case 1:

Nodular fasciitis, right flank

T-Y1310, M-76130

Case 2:

Infantile digital fibromatosis, right ring finger

T-Y9700, M-88520

Case 3:

Myxolipoma, foot

T-Y9700, M-88520

Case 4:

Myxoid liposarcoma with focal round cell differentiation, thigh

Director's note: Not every slide showed the round cell component (drc)

T-Y9100, M-88523

Case 5:

Myxoid peripheral nerve sheath tumor, abdomen

T-Y4100, M-95600

Case 6:

Leiomyoma with cystic degeneration, possibly "parasitic", broad ligament/sigmoid colon

T-6700, M-88900

Case 7:

Biphasic synovial sarcoma, thigh

T-Y9100, M-90433

Case 8:

Alveolar soft part sarcoma, thigh

T-Y9100, M-95813

Case 9:

Epithelioid leiomyosarcoma, small bowel

T-64000, M-88903

Director's note: Subsequent immunos show the tumor to be negative for CD34, S100 protein and neuroendocrine markers (synatophysin, chromogranin). It was diffusely and strongly positive for desmin.

Case 10:

Inflammatory malignant fibrous histiocytoma, retroperitoneum

T-Y4600, M-88300

Case No. 1, Accession No. 28706 **January 2001**

Mountain View (El Camino Pathology Group) - Cutaneous fibrous histiocytoma with myxoid change (recurring potential?)
Orange (UCI Medical Center Residents) - Fibromatosis
Glendale (Glendale Pathology Associates) - Fasciitis
Alabama (Cunningham Pathology) - Myxoid fibrosarcoma
Arkansas (Little Rock) - Fibromatosis (desmoid tumor)
Colorado (Unipath) - Liposarcoma
Florida (Monroe Regional Medical Center) - Desmoid
Florida (Winter Haven Hospital) - Fibromatosis
Illinois (Berwyn) - Fibromatosis
Illinois (Chicago) - Giant cell fibroblastoma
Illinois (Marion Memorial Hospital) - Infiltrating benign fibrous lesion ? fibromatosis
Indiana (Ft. Wayne) - Dermatofibrosarcoma protuberans, right flank
Kansas (Kansas University Medical Center) - Collagenous fibroma (12)
Louisiana (Metairie) - Atypical fibromyxomoid neoplasm, possible low grade fibromyxoid sarcoma
Maryland (National Naval Medical Center) - Spindle cell lipoma (5); Low grade fibromyxoid sarcoma (3); Nodular fasciitis (2)
Maryland (University of Maryland) - Fibrous histiocytoma
Massachusetts (Providence Pathology Associates) - Solitary myofibromatosis
Michigan (St. Josephs Mercy Hospital) - Low grade fibromyxoid sarcoma
Michigan (Grand Rapids) - Nodular fasciitis (3)
Mississippi (Kings Daughters Hospital) - Neurofibroma
Missouri (Joplin) - Desmoid tumor
Nebraska (Good Samaritan Hospital) - Myxoma
Nevada (Western Pathology Consultants) - Nodular fasciitis
Ohio (University Hospital of Cleveland) - Nodular fasciitis
Ohio (Columbus) - Fibroma/fibroblastoma
Pennsylvania (Conemaugh Memorial Hospital Residents) - Fibromatosis
Pennsylvania (Allegheny General Hospital) - Fibromatosis
Texas (ProPath Associates) - Nodular fasciitis (2)
Texas (Lubbock) - Nodular fasciitis
Texas (Polly Ryan Memorial Hospital) - Nodular fasciitis
Texas (Houston) - Myxoid dermatofibrosarcoma protuberans
Washington, DC - Dermatofibroma
Canada (CUSE, Site Fleurimont) - Abdominal fibromatosis
Canada (Foothills Hospital) - Nodular fasciitis
China (SRRSH, Hangzhou) - (1) Fibromatosis; (2) Nodular fasciitis
Japan (Kurashiki,Kawasaki Medical School Hospital) - Nodular fasciitis (4)
Japan (Minami-Ku, Sapporo) - Dermatofibrosarcoma protuberans (myxoid variant)
Japan (Hamamatsu University School of Medicine) - Spindle cell lipoma
Saudi Arabia (King Khalid University Hospital) - Low grade fibromyxosarcoma
Singapore (Singapore General Hospital) - Fibromatosis (1); Elastofibroma/desmoid fibromatosis (1)
Spain (POVISA) - Fibromatosis

CASE 1 - DIAGNOSIS:

Nodular fasciitis, right flank

T-Y1310, M-76130

CASE 1 - REFERENCES:

Wirman JA. Nodular Fasciitis, A Lesion of Myofibroblasts—An Ultrastructural Study. *Cancer* 1976; 38(6):2378-2389.

Bernstein K and Lattes R. Nodular (Pseudosarcomatous) Fasciitis, A Nonrecurrent Lesion. Clinicopathologic Study of 134 Cases. *Cancer* 1982; 49(8):1668-1678.

O'Connell JX, Young RH, Nielsen GP, et al. Nodular Fasciitis of the Vulva. A Study of Six Cases and Literature Review. *Int J Gynecol Pathol* (United States) 1997; 16(2):117-123.

Montgomery EA and Meis JM. Nodular Fasciitis. Its Morphologic Spectrum and Immunohistochemical Profile. *Am J Surg Pathol* 1991; 15(10):942-948.

Case No. 2, Accession No. 27901 January 2001

Mountain View (El Camino Pathology Group) - Infantile digital fibromatosis
Orange (UCI Medical Center Residents) - Infantile digital fibromatosis
Glendale (Glendale Pathology Associates) - Infantile digital fibroma
Alabama (Cunningham Pathology) - Infantile digital fibromatosis
Arkansas (Little Rock) - Infantile digital fibromatosis
Colorado (Unipath) - Malignant fibrous histiocytoma
Florida (Monroe Regional Medical Center) - Infantile fibromatosis
Florida (Winter Haven Hospital) - Infantile digital fibromatosis
Illinois (Berwyn) - Infantile digital fibromatosis
Illinois (Chicago) - Infantile digital fibromatosis
Illinois (Marion Memorial Hospital) - Infantile digital fibromatosis
Indiana (Ft. Wayne) - Infantile digital fibromatosis, right ring finger
Kansas (Kansas University Medical Center) - Infantile digital fibromatosis (12)
Louisiana (Metairie) - Infantile digital fibromatosis
Maryland (National Naval Medical Center) - Infantile digital fibromatosis (10)
Maryland (University of Maryland) - Infantile digital fibromatosis
Massachusetts (Providence Pathology Associates) - Digital fibroma
Michigan (St. Josephs Mercy Hospital) - Infantile digital fibromatosis
Michigan (Grand Rapids) - Kaposi's sarcoma (1); Infantile digital fibromatosis (1); Digital fibromatosis (1)
Mississippi (Kings Daughters Hospital) - Fibroepithelial polyp
Missouri (Joplin) - Juvenile aponeurotic fibroma
Nebraska (Good Samaritan Hospital) - Fibroma
Nevada (Western Pathology Consultants) - Infantile digital fibromatosis
Ohio (University Hospital of Cleveland) - Infantile digital fibromatosis
Ohio (Columbus) - Digital fibromatosis
Pennsylvania (Conemaugh Memorial Hospital Residents) - Infantile digital fibromatosis
Pennsylvania (Allegheny General Hospital) - Infantile digital fibromatosis without inclusions
Texas (ProPath Associates) - Benign fibromatosis (1); Infantile digital fibromatosis (1)
Texas (Lubbock) - Syringoma
Texas (Polly Ryan Memorial Hospital) - Infantile digital fibromatosis
Texas (Houston) - Infantile digital fibromatosis
Washington, DC - Infantile digital fibromatosis
Canada (CUSE, Site Fleurimont) - Infantile digital fibromatosis
Canada (Foothills Hospital) - Infantile digital fibromatosis
China (SRRSH, Hangzhou) - Infantile digital fibromatosis
Japan (Kurashiki, Kawasaki Medical School Hospital) - Infantile fibromatosis of the digit (4)
Japan (Minami-Ku, Sapporo) - Infantile digital fibromatosis
Japan (Hamamatsu University School of Medicine) - Infantile digital fibromatosis
Saudi Arabia (King Khalid University Hospital) - Infantile digital fibromatosis
Singapore (Singapore General Hospital) - Infantile digital fibromatosis (2)
Spain (POVISA) - Fibromatosis

CASE 2 - DIAGNOSIS:

Infantile digital fibromatosis, right ring finger

T-Y9700, M-88520

CASE 2 - REFERENCES:

Purdy LJ and Colby TV. Infantile Digital Fibromatosis Occurring Outside the Digit. *Am J Surg Pathol* 1984; 8(10): 787-790.

Hayashi T, Tsuda N, Chowdhury PR, et al. Infantile Digital Fibromatosis. A Study of the Development and Regression of Cytoplasmic Inclusion Bodies. *Mod Pathol* 1995; 8(5):548-552.

Mukai M, Torikata C, Iri H, et al. Immunohistochemical Identification of Aggregated Actin Filaments in Formalin-Fixed, Paraffin-Embedded Sections. 1. A Study of Infantile Digital Fibromatosis by a New Pretreatment. *Am J Surg Pathol* 1992; 16(2):110-115.

Coffin CM and Dehner LP. Fibroblastic-Myofibroblastic Tumors in Children and Adolescents. A Clinicopathologic Study of 108 Examples in 103 Patients. *Pediatr Pathol* 1991; 11(4):569-588.

Case No. 3, Accession No. 26955 January 2001

Mountain View (El Camino Pathology Group) - Lipoblastoma
Orange (UCI Medical Center Residents) - Lipofibromatosis
Glendale (Glendale Pathology Associates) - Lipoblastoma
Alabama (Cunningham Pathology) - Lipoblastoma
Arkansas (Little Rock) - Benign lipoblastoma
Colorado (Unipath) - Liposarcoma
Florida (Monroe Regional Medical Center) - Spindle cell lipoma
Florida (Winter Haven Hospital) - Spindle cell lipoma
Illinois (Berwyn) - Spindle cell lipoma
Illinois (Chicago) - Lipoblastoma
Illinois (Marion Memorial Hospital) - Myxoid lipoma
Indiana (Ft. Wayne) - Atypical lipoma, foot (myxoid lipoma)
Kansas (Kansas University Medical Center) - Fibrous hamartoma of infancy (12)
Louisiana (Metairie) - Myxolipoma vs. lipoblastoma
Maryland (National Naval Medical Center) - Lipoblastoma (10)
Maryland (University of Maryland) - Lipoblastomatosis
Massachusetts (Providence Pathology Associates) - Lipoma with myxoid change, foot
Michigan (St. Josephs Mercy Hospital) -Lipoblastoma
Michigan (Grand Rapids) - Lipoblastoma (1); Fibrous hamartoma of infancy (1); Lipoma (1)
Mississippi (Kings Daughters Hospital) - Lipoblastomatosis
Missouri (Joplin) - Myxoma
Nebraska (Good Samaritan Hospital) - Lipoblastoma
Nevada (Western Pathology Consultants) - Lipoblastoma
Ohio (University Hospital of Cleveland) - Benign lipoblastoma
Ohio (Columbus) - Lipoblastoma
Pennsylvania (Conemaugh Memorial Hospital Residents) - Lipoblastoma
Pennsylvania (Allegheny General Hospital) - Lipofibromatosis
Texas (ProPath Associates) - Lipoma (1); Spindle cell lipoma (1)
Texas (Lubbock) - Myxoid lipoma
Texas (Polly Ryan Memorial Hospital) - Myxolipoma
Texas (Houston) - Lipoblastoma
Washington, DC - Myxolipoma
Canada (CUSE, Site Fleurimont) - Myxoid liposarcoma
Canada (Foothills Hospital) - Lipoblastoma
China (SRRSH, Hangzhou) - Infantile fibrous hamartoma
Japan (Kurashik, Kawasaki Medical School Hospital) - Lipoblastoma (4)

Japan (Minami-Ku, Sapporo) - Lipoblastoma
Japan (Hamamatsu University School of Medicine) - Lipoblastoma
Saudi Arabia (King Khalid University Hospital) - Lipoblastoma
Singapore (Singapore General Hospital) - Lipoblastoma (2)
Spain (POVISA) - Myxoid lipoma vs lipoblastoma

CASE 3 - DIAGNOSIS:
Myxolipoma, foot
T-Y9700, M-88520

CASE 3 - REFERENCES:

Zamecnik M. Vascular Myxolipoma (Angiomyxolipoma) of Subcutaneous Tissue. *Histopathol* 1999; 34(2):180-181.

Mai KT, Yazdi HM and Collins JP. Vascular Myxolipoma ("Angiomyxolipoma") of the Spermatic Cord. *Am J Surg Pathol* 1996; 20(9):1145-1148.

Allen PW, Strungs I and MacCormac LB. Atypical Subcutaneous Fatty Tumors. A Review of 37 Referred Cases. *Pathol* 1998; 30(2):123-135.

Allen PW. Myxoid Tumors of Soft Tissues. *Pathol Annu* 1980; 15 (Pt 1):133-192.

Case No. 4, Accession No. 28702 January 2001

Mountain View (El Camino Pathology Group) - Liposarcoma with myxoid and round cell features
Orange (UCI Medical Center Residents) - Myxoid liposarcoma with focal round cell features
Glendale (Glendale Pathology Associates) - Myxoid liposarcoma
Alabama (Cunningham Pathology) - Round cell liposarcoma
Arkansas (Little Rock) - Myxoid/round cell liposarcoma
Colorado (Unipath) - Liposarcoma
Florida (Monroe Regional Medical Center) - Myxoid liposarcoma
Florida (Winter Haven Hospital) - Myxoid liposarcoma
Illinois (Berwyn) - Liposarcoma, myxoid and round cell type
Illinois (Chicago) - Liposarcoma, dedifferentiated
Illinois (Marion Memorial Hospital) - Myxoid liposarcoma, poorly differentiated (malignant mesenchymoma)
Indiana (Ft. Wayne) - Myxoid liposarcoma, thigh
Kansas (Kansas University Medical Center) - Myxoid round cell liposarcoma (12)
Louisiana (Metairie) - Myxoid liposarcoma in transition to round cell liposarcoma, mixed type liposarcoma (myxoid—round cell type)
Maryland (National Naval Medical Center) - Liposarcoma, mixed (10)
Maryland (University of Maryland) - Myxoid liposarcoma with focal round cell differentiation
Massachusetts (Providence Pathology Associates) - Malignant peripheral nerve sheath tumor, leg
Michigan (St. Josephs Mercy Hospital) - Dedifferentiated liposarcoma
Michigan (Grand Rapids) - Myxoid liposarcoma with prominent round cell component (1); Myxoid MFH (1); Myxoid liposarcoma (1)
Mississippi (Kings Daughters Hospital) - Myxoid liposarcoma
Missouri (Joplin) - Mesenchymoma
Nebraska (Good Samaritan Hospital) - Soft tissue chondrosarcoma
Nevada (Western Pathology Consultants) - Round cell liposarcoma
Ohio (University Hospital of Cleveland) - Dedifferentiated liposarcoma
Ohio (Columbus) - Liposarcoma
Pennsylvania (Conemaugh Memorial Hospital Residents) - Round cell liposarcoma
Pennsylvania (Allegheny General Hospital) - Myxoid liposarcoma with focal area of round cell type
Texas (ProPath Associates) - Mesenchymal chondrosarcoma (2)
Texas (Lubbock) - Liposarcoma
Texas (Polly Ryan Memorial Hospital) - Liposarcoma (mixed round cell and myxoid)
Texas (Houston) - Liposarcoma, myxoid and round cell

Washington, DC - Myxoid chondrosarcoma
Canada (CUSE, Site Fleurimont) - Round cell liposarcoma
Canada (Foothills Hospital) - Myxoid liposarcoma
China (SRRSH, Hangzhou) - Myxoid liposarcoma
Japan , (Kurashiki, Kawasaki Medical School Hospital) - Liposarcoma, myxoid/round cell (4)
Japan (Minami-Ku, Sapporo) - Myxoid liposarcoma
Japan (Hamamatsu University School of Medicine) - Myxoid liposarcoma
Saudi Arabia (King Khalid University Hospital) - Myxoid liposarcoma
Singapore (Singapore General Hospital) - Myxoid liposarcoma with round cell liposarcoma (1); Round cell liposarcoma (1)
Spain (POVISA) - Liposarcoma

CASE 4 - DIAGNOSIS:

Myxoid liposarcoma with focal round cell differentiation, thigh

Director's note: Not every slide showed the round cell component (drc)
T-Y9100, M-88523

CASE 4 - REFERENCES:

Kilpatrick SE, Doyon J, Choong PF, et al. The Clinicopathologic Spectrum of Myxoid and Round Cell Liposarcoma. A Study of 55 Cases. *Cancer* 1996; 77(8):1450-1458.

Rabbitts TH, Forster A, Larson R and Nathan P. Fusion of the Dominant Negative Transcription Regulator CHOP with a Novel Gene FUS by Translocation t (12; 16) in Malignant Liposarcoma. *Nat Genet* 1993; 4(2):175-180.

McCormick D, Mentzel T, Beham A and Fletcher C. Dedifferentiated Liposarcoma. Clinicopathologic Analysis of 32 Cases Suggesting a Better Prognostic Subgroup Among Pleomorphic Sarcomas. *Am J Surg Pathol* 1994; 18(12):1213-1223.

Ramsdell MG, Chew FS and Keel SB. Myxoid Liposarcoma of the Thigh. *AJR Am J Roentgenol* 1998; 170(5):1242.

Case No. 5, Accession No. 28917 January 2001

Mountain View (El Camino Pathology Group) - Low grade fibromyxoid sarcoma
Orange (UCI Medical Center Residents) - Nerve sheath tumor (MPNST vs. atypical neurofibroma)
Glendale (Glendale Pathology Associates) - Low-grade fibromyxoid sarcoma
Alabama (Cunningham Pathology) - Myxoid MFH
Arkansas (Little Rock) - Low grade fibromyxoid sarcoma
Colorado (Unipath) - Neurofibroma
Florida (Monroe Regional Medical Center) - Plexiform neurofibroma
Florida (Winter Haven Hospital) - Malignant nerve sheath tumor
Illinois (Berwyn) - Myxoma
Illinois (Chicago) - Myxoid nerve sheath tumor
Illinois (Marion Memorial Hospital) - Myxoid malignant fibrous histiocytoma vs. malignant peripheral nerve sheath tumor
Indiana (Ft. Wayne) - Low grade fibromyxosarcoma, abdomen
Kansas (Kansas University Medical Center) - Neurothekeoma (12)
Louisiana (Metairie) - Nerve sheath myxoma
Maryland (National Naval Medical Center) - Myxoid liposarcoma (5); Low grade fibromyxoid sarcoma (2); Myxoid peripheral nerve sheath tumor (3)
Maryland (University of Maryland) - Neurofibroma
Massachusetts (Providence Pathology Associates) - Myxofibrosarcoma, abdomen
Michigan (St. Josephs Mercy Hospital) - Malignant peripheral nerve sheath tumor
Michigan (Grand Rapids) - Neurofibroma (3)
Mississippi (Kings Daughters Hospital) - Neurilemmoma
Missouri (Joplin) - Liposarcoma, myxoid type
Nebraska (Good Samaritan Hospital) - Fibromatosis
Nevada (Western Pathology Consultants) - Neurofibroma
Ohio (University Hospital of Cleveland) - Low grade fibromyxoid sarcoma (?NSE)
Ohio (Columbus) - Neurogenic tumor ?GANT
Pennsylvania (Conemaugh Memorial Hospital Residents) - MPNST

Pennsylvania (Allegheny General Hospital) - Fibromyxoid sarcoma
Texas (ProPath Associates) - Malignant peripheral nerve sheath tumor (1); Myxoid change in malignant peripheral nerve sheath tumor (1)
Texas (Lubbock) - Neurofibroma
Texas (Polly Ryan Memorial Hospital) - Myxoid neurofibroma
Texas (Houston) - Malignant peripheral nerve sheath tumor
Washington, DC - Neurofibroma
Canada (CUSE, Site Fleurimont) - Dedifferentiated liposarcoma
Canada (Foothills Hospital) - Fibromatosis, myxoid
China (SRRSH, Hangzhou) - Neurofibroma
Japan (Kurashiki, Kawasaki Medical School Hospital) - Desmoid tumor (4)
Japan (Minami-Ku, Sapporo) - ?
Japan (Hamamatsu University School of Medicine) - Desmoid tumor
Saudi Arabia (King Khalid University Hospital) - Abdominal fibromatosis
Singapore (Singapore General Hospital) - Myxofibrosarcoma (1); Fibromatosis, desmoid type (1)
Spain (POVISA) - Perineural cell tumor

CASE 5 - DIAGNOSIS:

Myxoid peripheral nerve sheath tumor, abdomen
T-Y4100, M-95600

CASE 5 - REFERENCES:

Wakely PE. Myxomatous Soft Tissue Tumors. Correlation of Cytopathology and Histopathology. *Ann Diagn Pathol* 1999; 3(4):227-242.

Kataria R, Bhatnagar V, Gupta SD, et al. Mesenteric Neurofibroma in von Recklinghausen's Disease. *J Pediatr Surg* 1997; 32(1):128-129.

Weiss SW and Nickoloff BJ. CD-34 is Expressed by a Distinctive Cell Population in Peripheral Nerve, Nerve Sheath Tumors, and Related Lesions. *Am J Surg Pathol* 1993; 17(10):1039-1045.

Rao UN, Surti U, Hoffner L, et al. Cytogenetic and Histologic Correlation of Peripheral Nerve Sheath Tumors of Soft Tissue. *Cancer Genet Cytogenet* 1996; 88(1):17-25.

Case No. 6, Accession No. 28738 January 2001

Mountain View (El Camino Pathology Group) - Parasitic leiomyoma
Orange (UCI Medical Center Residents) - Leiomyomatosis peritonealis disseminate
Glendale (Glendale Pathology Associates) - Leiomyoma
Alabama (Cunningham Pathology) - Leiomyoma
Arkansas (Little Rock) - Epithelioid leiomyoma
Colorado (Unipath) - Cellular leiomyoma
Florida (Monroe Regional Medical Center) - Leiomyomatosis peritonealis
Florida (Winter Haven Hospital) - Symplastic leiomyoma
Illinois (Berwyn) - Rhabdoid tumor
Illinois (Chicago) - Angiomyoma
Illinois (Marion Memorial Hospital) - Leiomyoma
Indiana (Ft. Wayne) - Leiomyoma (with epithelioid features) parasitic myoma, pelvis
Kansas (Kansas University Medical Center) - Leiomyomatosis peritonealis disseminated (12)
Louisiana (Metairie) - Epithelioid leiomyoma
Maryland (National Naval Medical Center) - Leiomyoma (10)
Maryland (University of Maryland) - Leiomyoma of round ligament (8) Post traumatic spindle cell neoplasm (2)
Massachusetts (Providence Pathology Associates) - Leiomyoma, pelvis
Michigan (St. Josephs Mercy Hospital) - Gastrointestinal stromal tumor
Michigan (Grand Rapids) - Myxoid leiomyoma (1); Leiomyoma (2)
Mississippi (Kings Daughters Hospital) - Leiomyoma

Missouri (Joplin) - Leiomyoma
Nebraska (Good Samaritan Hospital) - Leiomyoma
Nevada (Western Pathology Consultants) - Leiomyoma with prominent cystic degeneration
Ohio (University Hospital of Cleveland) - Leiomyoma vs angiomyoma
Ohio (Columbus) - Leiomyoma
Pennsylvania (Conemaugh Memorial Hospital Residents) - Rhabdoid tumor
Pennsylvania (Allegheny General Hospital) - Low grade fibromyxoid sarcoma
Texas (ProPath Associates) - Angiomyxoma (1); Aggressive angiomyxoma (1)
Texas (Lubbock) - Angiolipoma
Texas (Polly Ryan Memorial Hospital) - Leiomyoma
Texas (Houston) - Sclerosing stromal tumor
Washington, DC - Leiomyoma, atypical
Canada (CUSE, Site Fleurimont) - Leiomyoma
Canada (Foothills Hospital) - Epithelioid leiomyoma
China (SRRSH, Hangzhou) - Gastrointestinal stromal tumor
Japan (Kurashiki, Kawasaki Medical School Hospital) - Leiomyoma (4)
Japan (Minami-Ku, Sapporo) - Benign metastasizing leiomyoma
Japan (Hamamatsu University School of Medicine) - Epithelioid leiomyoma
Saudi Arabia (King Khalid University Hospital) - Epithelioid leiomyoma of broad ligament
Singapore (Singapore General Hospital) - Epithelioid leiomyoma (1); Gastrointestinal stromal tumor (1)
Spain (POVISA) - Intravascular smooth muscle tumor

CASE 6 - DIAGNOSIS:

Leiomyoma with cystic degeneration, possibly "parasitic", broad ligament/sigmoid colon
T-67700, M-88900

CASE 6 - REFERENCES:

Yarwood RL and Arroyo E. Cystic Degeneration of a Uterine Leiomyoma Masquerading as a Postmenopausal Ovarian Cyst. A Case Report. *J Reprod Med* 1999; 44(7):649-652.

David SS and Sameal JJ. Pedunculated Extraluminal Leiomyoma of the Sigmoid Colon. *J Gastroenterol Hepatol* 1996; 11(3):299-300.

Weston PM, Travis R, and Thompson HH. Giant Cystic Leiomyoma of the Sigmoid Colon. *Comput Med Imaging Graph* 1991; 15(1):41-42.

Case No. 7, Accession No. 29007 January 2001

Mountain View (El Camino Pathology Group) - Synovial sarcoma with angiomatoid/degenerative change
Orange (UCI Medical Center Residents) - Synovial sarcoma, biphasic
Glendale (Glendale Pathology Associates) - Biphasic synovial sarcoma
Alabama (Cunningham Pathology) - High grade spindled angiosarcoma
Arkansas (Little Rock) - Synovial sarcoma
Colorado (Unipath) - Fibrosarcoma
Florida (Monroe Regional Medical Center) - Synovial sarcoma
Florida (Winter Haven Hospital) - Bacillary angiomatosis
Illinois (Berwyn) - Spindle-cell hemangioendothelioma
Illinois (Chicago) - Synovial sarcoma
Illinois (Marion Memorial Hospital) - Synovial sarcoma
Indiana (Ft. Wayne) - Synovial sarcoma, left thigh (no cytokeratin, confirm with FISH study for translocation)
Kansas (Kansas University Medical Center) - Synovial sarcoma, biphasic (12)
Louisiana (Metairie) - Synovial sarcoma
Maryland (National Naval Medical Center) - Biphasic synovial sarcoma (10)
Maryland (University of Maryland) - Synovial sarcoma
Massachusetts (Providence Pathology Associates) - Angiosarcoma, thigh

Michigan (St. Josephs Mercy Hospital) - Synovial sarcoma
Michigan (Grand Rapids) - Synovial sarcoma (3)
Mississippi (Kings Daughters Hospital) - Synovial sarcoma
Missouri (Joplin) - Hamartoma
Nebraska (Good Samaritan Hospital) - Synovial sarcoma
Nevada (Western Pathology Consultants) - Biphasic synovial sarcoma
Ohio (University Hospital of Cleveland) - Synovial sarcoma
Ohio (Columbus) - Synovial sarcoma
Pennsylvania (Allegheny General Hospital) - Synovial sarcoma
Pennsylvania (Conemaugh Memorial Hospital Residents) - Synovial sarcoma, biphasic
Texas (ProPath Associates) - Synovial sarcoma (2)
Texas (Lubbock) - Synovial sarcoma
Texas (Polly Ryan Memorial Hospital) - Proliferative fasciitis
Texas (Houston) - Biphasic synovial sarcoma
Washington, DC - Hemangiopericytoma
Canada (CUSE, Site Fleurimont) - Synovial sarcoma
Canada (Foothills Hospital) - Synovial sarcoma, biphasic
China (SRRSH, Hangzhou) - Synovial sarcoma
Japan (Kurashiki, Kawasaki Medical School Hospital) - Synovial sarcoma (3); Malignant peripheral nerve sheath tumor (1)
Japan (Minami-Ku, Sapporo) - Synovial sarcoma
Japan (Hamamatsu University School of Medicine) - Synovial sarcoma
Saudi Arabia (King Khalid University Hospital) - Biphasic synovial sarcoma (5); Malignant peripheral nerve sheath tumor (1)
Singapore (Singapore General Hospital) - Synovial sarcoma (1); Pleomorphic hyalinizing angiectatic tumor (1)
Spain (POVISA) - Spindle cell hemangioendothelioma

CASE 7 - DIAGNOSIS:
Biphasic synovial sarcoma, thigh
T-Y9100, M-90433

CASE 7 - REFERENCES:

Oda Y, Hashamoto H, Takeshita S and Tsuneyoshi M. The Prognostic Value of Immunohistochemical Staining for Proliferating Cell Nuclear Antigen (PCNA) in Synovial Sarcoma. *Cancer* 1993; 72(2):478-485.

Lopes JM, Bjerkehagen B, Holm R, et al. Immunohistochemical Profile of Synovial Sarcoma with Emphasis on the Epithelial-Type Differentiation. A Study of 49 Primary Tumours, Recurrences and Metastases. *Pathol Res Pract* 1994; 190(2):168-177.

Miettinen M. Keratin Subsets in Spindle Cell Sarcomas. Keratins Are Widespread But Synovial Sarcoma Contains A Distinctive Keratin Polypeptide Pattern and Desmoplakins. *Am J Pathol* 1991; 138(2):505-513.

Clark J, Rocques PJ, Crew AJ, et al. Identification of Novel Genes, SYT, and SSX, Involved in the t (x;18) (p11.2;q-11.2) Translocation Found in Human Synovial Sarcoma. *Nat Genet* 1994; 79(4):502-508.

Shipley J, Crew J, Birsall S, et al. Interphase Florescence In-Situ Hybridization and Reverse Transcription Polymerase Chain Reaction as a Diagnostic Aid for Synovial Sarcoma. *Am J Pathol* 1996; 148(2):559-567.

Case No. 8, Accession No. 28695 January 2001

Mountain View (El Camino Pathology Group) - Alveolar soft part sarcoma
Orange (UCI Medical Center Residents) - Alveolar soft part sarcoma
Glendale (Glendale Pathology Associates) - Alveolar soft part sarcoma
Alabama (Cunningham Pathology) - Clear cell sarcoma
Arkansas (Little Rock) - Alveolar soft part sarcoma
Colorado (Unipath) - Granular cell tumor
Florida (Monroe Regional Medical Center) - Alveolar soft part sarcoma
Florida (Winter Haven Hospital) - Alveolar soft part sarcoma
Illinois (Berwyn) - Alveolar soft part sarcoma
Illinois (Chicago) - Alveolar soft part sarcoma
Illinois (Marion Memorial Hospital) - Alveolar soft part sarcoma

Indiana (Ft. Wayne) - Alveolar soft part sarcoma, right thigh (do EM for confirmation)
Kansas (Kansas University Medical Center) - Alveolar soft part sarcoma (12)
Louisiana (Metairie) - Alveolar soft part sarcoma
Maryland (National Naval Medical Center) - Alveolar soft part sarcoma (10)
Maryland (University of Maryland) - Alveolar soft part sarcoma
Massachusetts (Providence Pathology Associates) - Alveolar soft part sarcoma, thigh
Michigan (St. Josephs Mercy Hospital) - Alveolar soft part sarcoma
Michigan (Grand Rapids) - Alveolar soft part sarcoma (3)
Mississippi (Kings Daughters Hospital) - Alveolar soft part sarcoma
Missouri (Joplin) - Alveolar soft part sarcoma
Nebraska (Good Samaritan Hospital) - Alveolar soft part sarcoma
Nevada (Western Pathology Consultants) - Alveolar soft part sarcoma
Ohio (University Hospital of Cleveland) - Alveolar soft part sarcoma
Ohio (Columbus) - Alveolar soft part sarcoma
Pennsylvania (Conemaugh Memorial Hospital Residents) - Alveolar soft part sarcoma
Pennsylvania (Allegheny General Hospital) - Alveolar soft part sarcoma
Texas (ProPath Associates) - Alveolar soft part tumor (2)
Texas (Lubbock) - Alveolar soft part sarcoma
Texas (Polly Ryan Memorial Hospital) - Alveolar soft part sarcoma
Texas (Houston) - Alveolar soft part sarcoma
Washington, DC - Alveolar soft part sarcoma
Canada (CUSE, Site Fleurimont) - Soft part alveolar sarcoma
Canada (Foothills Hospital) - Alveolar soft part sarcoma
China (SRRSH, Hangzhou) - Alveolar soft part sarcoma
Japan (Kurashiki, Kawasaki Medical School Hospital) - Alveolar soft part sarcoma (4)
Japan (Minami-Ku, Sapporo) - Alveolar soft part sarcoma
Japan (Hamamatsu University School of Medicine) - Alveolar soft part sarcoma
Saudi Arabia (King Khalid University Hospital) - Alveolar soft part sarcoma
Singapore (Singapore General Hospital) - Alveolar soft part sarcoma (2)
Spain (POVISA) - Alveolar soft part sarcoma

CASE 8 - DIAGNOSIS:

Alveolar soft part sarcoma, thigh
T-Y9100, M-95813

CASE 8 - REFERENCES:

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McDonald EC, Haughton W. and Lute K. Touch Imprints. Their Use in the Frozen-Section Diagnosis of Alveolar Soft-Part Sarcoma. *Arch Pathol Lab Med* 1981; 105(5):263-265.

Nakano H, Tateishi A, Imamra T, et al. RT-PCR Suggests Human Skeletal Muscle Origin of Alveolar Soft-Part Sarcoma. *Oncol* 2000; 58(4):319-323.

Foschini MP and Eusebi V. Alveolar Soft-Part Sarcoma. A New Type of Rhabdomyosarcoma? *Semin Diagn Pathol* 1994; 11(1):58-68.

Rosai J, Dias P, Parham DM, et al. MyoD1 Protein Expression in Alveolar Soft Part Sarcoma as Confirmatory Evidence of Its Skeletal Muscle Nature. *Am J Surg Pathol* 1991; 15(10):974-981.

Case No. 9, Accession No. 28443 January 2001

Mountain View (El Camino Pathology Group) - GI stromal tumor vs. metastatic endometrial stromal sarcoma
Orange (UCI Medical Center Residents) - Malignant gastrointestinal stromal tumor (6); Hemangiopericytoma (2)
Glendale (Glendale Pathology Associates) - Malignant GIST
Alabama (Cunningham Pathology) - Malignant gastrointestinal stromal tumor
Arkansas (Little Rock) - Epithelioid leiomyosarcoma

Colorado (Unipath) - GIST
Florida (Monroe Regional Medical Center) - Gastrointestinal stromal tumor
Florida (Winter Haven Hospital) - Malignant gastrointestinal stromal tumor
Illinois (Berwyn) - Dedifferentiated chondrosarcoma
Illinois (Chicago) - Malignant Schwannoma
Illinois (Marion Memorial Hospital) - Malignant GI stromal tumor, low grade
Indiana (Ft. Wayne) - Intra-abdominal fibromatosis/well-differentiated fibrosarcoma, mesentery—small bowel
Kansas (Kansas University Medical Center) - Malignant GIST and smooth muscle differentiation (12)
Louisiana (Metairie) - Malignant stromal tumor (GIST malignant)
Maryland (National Naval Medical Center) - Gastrointestinal stromal tumor, malignant (10)
Maryland (University of Maryland) - Sarcoma, favor leiomyosarcoma
Massachusetts (Providence Pathology Associates) - Gastrointestinal stromal tumor
Michigan (St. Josephs Mercy Hospital) - Gastrointestinal stromal tumor (1); Mesenchymal chondrosarcoma (1)
Michigan (Grand Rapids) - Malignant GIST (3)
Mississippi (Kings Daughters Hospital) - Gastrointestinal stromal tumor
Missouri (Joplin) - Leiomyosarcoma
Nebraska (Good Samaritan Hospital) - Leiomyosarcoma (GIST)
Nevada (Western Pathology Consultants) - GIST
Ohio (University Hospital of Cleveland) - Malignant gastrointestinal stromal tumor
Ohio (Columbus) - Sarcoma with chondroid differentiation
Pennsylvania (Conemaugh Memorial Hospital Residents) - Malignant GIST
Pennsylvania (Allegheny General Hospital) - Malignant GIST
Texas (ProPath Associates) - Malignant mesenchymoma (2)
Texas (Lubbock) - Low grade stromal sarcoma
Texas (Polly Ryan Memorial Hospital) - Gastrointestinal stromal tumor
Texas (Houston) - GIST
Washington, DC - Leiomyosarcoma, low grade
Canada (CUSE, Site Fleurimont) - GIST
Canada (Foothills Hospital) - Myofibroblastoma
China (SRRSH, Hangzhou) - Mesenchymal chondrosarcoma
Japan (Kurashiki, Kawasaki Medical School Hospital) - GIST (2); Mesenchymal chondrosarcoma (1); Sarcoma, NOS (1)
Japan (Minami-Ku, Sapporo) - Malignant mesothelioma
Japan (Hamamatsu University School of Medicine) - GIST, low grade malignant
Saudi Arabia (King Khalid University Hospital) - Malignant GIST
Singapore (Singapore General Hospital) - Malignant stromal tumor (1); Gastrointestinal stromal tumor (1)
Spain (POVISA) - GIST vs. hyalinizing spindle-cell tumor with giant rosettes

CASE 9 - DIAGNOSIS:

Epithelioid leiomyosarcoma, small bowel

T-64000, M-88903

CASE 9 - REFERENCES:

Ludwig DJ and Traverso LW. Gut stromal tumors and their clinical behavior. *Am J Surg* 1997; 173(5):390-4.

Lane KL, Shannon RJ and Weiss SW. Hylinizing Spindle Cell Tumor with Giant Roselles. A Distinctive Tumor Closely Resembling Low-Grade Fibromyoxid Sarcoma. *Am J Surg Pathol* 1997; 21(12):1481-1488.

Conlon KC, Casper ES, Brennan MF. Primary Gastrointestinal Sarcomas: Analysis of Prognostic Variables. *Ann Surg Oncol* 1995, 2(1):26-31.

Case No. 10, Accession No. 28891 January 2001

Mountain View (El Camino Pathology Group) - Inflammatory MFH
Orange (UCI Medical Center Residents) - Malignant fibrous histiocytoma (6); Hodgkin's lymphoma (2)
Glendale (Glendale Pathology Associates) - Hodgkin's disease

Alabama (Cunningham Pathology) - MFH
Arkansas (Little Rock) - Inflammatory malignant fibrous histiocytoma
Colorado (Unipath) - Malignant fibrous histiocytoma
Florida (Monroe Regional Medical Center) - Fibrous histiocytoma
Florida (Winter Haven Hospital) - Hodgkin's disease
Illinois (Berwyn) - Granular cell tumor
Illinois (Chicago) - MFH
Illinois (Marion Memorial Hospital) - Inflammatory malignant fibrous histiocytoma
Indiana (Ft. Wayne) - Malignant fibrous histiocytoma, retroperitoneum
Kansas (Kansas University Medical Center) - Inflammatory MFH (5); Pleomorphic liposarcoma (5); Inflammatory pseudo ? (1)
Louisiana (Metairie) - Inflammatory malignant fibrous histiocytoma
Maryland (National Naval Medical Center) - Inflammatory MFH (6); Inflammatory myofibroblastic tumor (3) Dedifferentiated liposarcoma (1)
Maryland (University of Maryland) - Hodgkin's lymphoma
Massachusetts (Providence Pathology Associates) - Malignant fibrous histiocytoma
Michigan (St. Josephs Mercy Hospital) - Inflammatory MFH
Michigan (Grand Rapids) - MFH (1); Inflammatory MFH (2)
Mississippi (Kings Daughters Hospital) - Malignant fibrous histiocytoma
Missouri (Joplin) - Liposarcoma
Nebraska (Good Samaritan Hospital) - Malignant fibrous histiocytoma
Nevada (Western Pathology Consultants) - Inflammatory myofibroblastic tumor
Ohio (University Hospital of Cleveland) - Malignant fibrous histiocytoma (retroperitoneal xanthogranuloma -- would repeat CD68
Ohio (Columbus) - Inflammatory MFH
Pennsylvania (Conemaugh Memorial Hospital Residents) - Mesothelioma/MFH
Pennsylvania (Allegheny General Hospital) - Proliferative myositis
Texas (ProPath Associates) - Malignant histiocytoma (1); Inflammatory malignant histiocytoma (xanthosarcoma) (1)
Texas (Lubbock) - Malignant fibrous histiocytoma
Texas (Polly Ryan Memorial Hospital) - Inflammatory malignant fibrous histiocytoma
Texas (Houston) - Malignant fibrous histiocytoma
Washington, DC - Inflammatory MFH vs. atypical fibroxanthoma
Canada (CUSE, Site Fleurimont) - MFH inflammatory type
Canada (Foothills Hospital) - Proliferative myositis
China (SRRSH, Hangzhou) - Proliferative myositis
Japan (Kurashiki, Kawasaki Medical School Hospital) - Sarcoma with MFH-phenotype (4)
Japan (Minami-Ku, Sapporo) - Malignant peripheral nerve sheath tumor
Japan (Hamamatsu University School of Medicine) - Pleomorphic liposarcoma
Saudi Arabia (King Khalid University Hospital) - High grade sarcoma probably malignant fibrous histiocytoma (4); Hodgkin's lymphoma (2)
Singapore (Singapore General Hospital) - Inflammatory malignant fibrous histiocytoma (1) MFH with residual Hodgkin's disease (1)
Spain (POVISA) - Proliferative myositis vs. proliferative fasciitis vs. pseudosarcoma

CASE 10 - DIAGNOSIS:

Inflammatory malignant fibrous histiocytoma, retroperitoneum

T-Y4600, M-88303

CASE 10 - REFERENCES:

Algaba F, Trias I and Castro C. Inflammatory Malignant Fibrous Histiocytoma of the Spermatic Cord with Eosinophilia. *Histopathol* 1989; 14(3):319-321.

Yamakawa Y, Fugimura M, Yasoshima K and Saito S. Inflammatory Malignant Fibrous Histiocytoma of the Ovary Producing Interleukin – 6. A Case Report. *Gynecol Oncol* 199; 75(3):484-489.

Fletcher CDM. Pleomorphic Malignant Fibrous Histiocytoma. Fact or Fiction? *Am J Surg Pathol* 1992; 16(3):213-228.

Hollowood K and Fletcher CD. Malignant Fibrous Histiocytoma. Morphologic Pattern or Pathologic Entity? *Semin Diag Pathol* 1995; 12(3):210-220.