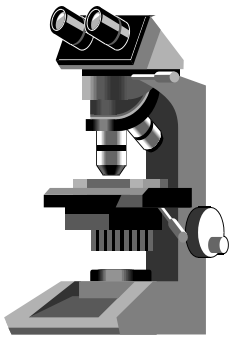
CALIFORNIA
TUMOR TISSUE REGISTRY



SOFT TISSUE TUMORS

Minutes – Subscription B

March 2000

SUGGESTED READING (General Topics from Recent Literature):

Prospective Cohort Study of Neoadjuvant Treatment in Conservative Surgery of Soft Tissue Sarcomas. *Annals of Surg Oncol* 1997; 4(7):586-590.

Primary Giant Cell tumor of Soft Tissues. A Study of 22 Cases. Oliveira AM, et al. *Am J of Surg Pathol* 2000; 24(2):248-256.

Epithelial Sheath Neuroma. A New Entity. Requena L, et al. *Am J Surg Pathol* 2000; 24(2):190-196.

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
Case of the Month: www.llu.edu/llu/cttr/cotm

Mountain View (El Camino Assoc.) - Juxta-articular myxoma
Orange (UCI Medical Center Residents) - Myxoid chondrosarcoma
San Diego (Naval Medical Center) - Juxta-articular myxoma
Arizona (Phoenix Memorial Hospital) - Extraskeletal myxoid chondrosarcoma
Colorado (Unipath) - Liposarcoma
Texas (Fair Oaks Ranch) - Myxoma
Texas (Lubbock) - Myxoid tumor
Texas (Fort Worth) - Myxoid liposarcoma
Louisiana (River Ridge) - Myxoid liposarcoma
Kansas (Stormont Vail Hospital) - Extraskeletal myxoid chondrosarcoma
Florida (Monroe Regional Medical Center) - Myxoid chondrosarcoma
Florida (Winter Haven) - Juxta-articular myxoma
Florida, Miami (Hospital Pathologist) - Myxoid chondrosarcoma
Michigan (St. Mary's Hospital) - Malignant fibrous histiocytoma, myxoid variant (2)
Indiana (Fort Wayne) - Extraskeletal synovial myxoid chondrosarcoma, knee
Wisconsin (Middleton) - Proliferative peribursitis
Kentucky (Univ of Louisville Residents) - Chondrosarcoma
Maryland (University of Maryland) - Myxoid synovial chondromatosis
Maryland (National Naval Medical Center) - Juxta-articular myxoma (12)
Pennsylvania (Conemaugh Memorial Medical Center Residents) - Myxoid chondrosarcoma
New York (Impath) - Juxta-articular myxoma
New York (Beth Israel Medical Center Residents) - Myxoma
Massachusetts (Longmeadow) - Juxta-articular myxoma, knee
Massachusetts (Good Samaritan Medical Center) - Reactive-proliferative and inflammatory synovitis
Canada, Calgary (Foothills Hospital) - Myxoid chondrosarcoma (vs. extraskeletal chondroma)
Japan, Kurashiki (Kawasaki Medical School Hospital) - Myxoid sarcoma, NOS (1): Malignant PNST (1): Myxoid chondrosarcoma (1)
Japan (Shimada City) - Myxoid liposarcoma
China (Hubei Cancer Hospital and Institute) - Aggressive angiomyxoma, right knee
Saudi Arabia (King Khalid University Hospital) - Myxoid sarcoma, most likely myxoid extraskeletal chondrosarcoma

DIAGNOSIS:

Juxta-Articular Myxoma, Knee
T-Y9210, M-88400

REFERENCES:
Meis JM, et al. Juxta-articular Myxoma. A Clinical and Pathological Study of 65 Cases. *Hum Pathol* 1992; 23(6):639-646.
King DG, et al. Magnetic Resonance Imaging of Juxta-Articular Myxoma. *Skeletal Radiol* (Germany) 1995; 24(2):145-147.
Daluiski A, et al. A Case of Juxta-Articular Myxoma of the Knee. *Skeletal Radiol* 1995; 24(5):389-391.

Mountain View (El Camino Assoc.) - Schwannoma
Orange (UCI Medical Center Residents) - Plexiform Schwannoma
San Diego (Naval Medical Center) - Neurilemmoma
Arizona (Phoenix Memorial Hospital) - Plexiform Schwannoma
Colorado (Unipath) - Neurilemoma
Texas (Fair Oaks Ranch) - Schwannoma, plexiform
Texas (Lubbock) - Plexiform neurofibroma
Texas (Fort Worth) - Neurofibromatosis
Louisiana (River Ridge) - Plexiform neurilemmoma
Kansas (Stormont Vail Hospital) - Neurilemmoma
Florida (Monroe Regional Medical Center) - Plexiform Schwannoma
Florida (Winter Haven) - Plexiform neurofibroma
Florida, Miami (Hospital Pathologist) - Neurilemmoma
Michigan (St. Mary's Hospital) - Schwannoma (2)
Indiana (Fort Wayne) - Plexiform neurofibroma, soft tissue, left forearm
Wisconsin (Middleton) - Schwannoma
Kentucky (Univ of Louisville Residents) - Plexiform neurofibroma
Maryland (University of Maryland) - Plexiform Schwannoma
Maryland (National Naval Medical Center) - Plexiform neurofibroma (10); Plexiform neurilemmoma (2)
Pennsylvania (Conemaugh Memorial Medical Center Residents) - Peripheral nerve sheath tumor
New York (Impath) - Nerve sheath tumor—plexiform Schwannoma
New York (Beth Israel Medical Center Residents) - Benign Schwannoma
Massachusetts (Longmeadow) - Plexiform Schwannoma
Massachusetts (Good Samaritan Medical Center) - Plexiform neurofibroma with focal increased cellularity
Canada, Calgary (Foothills Hospital) - Plexiform schwannoma
Japan, Kurashiki (Kawasaki Medical School Hospital) - Benign Schwannoma (2); Palisaded myofibroblastoma (1)
Japan (Shimada City) - Plexiform Schwannoma
China (Hubei Cancer Hospital and Institute) - Schwannoma, left forearm
Saudi Arabia (King Khalid University Hospital) - Schwannoma (5); Low grade leiomyosarcoma (1)

DIAGNOSIS:

Plexiform Schwannoma, Forearm
T-Y8700, M-95600

REFERENCES:

Harkin JC, et al. Tumors of the Peripheral Nervous System Supplement in Atlas of Tumor Pathology 1969; *Armed Forces Institute of Pathology*, Second Series, Fascicle 3, Washington, D.C.

Hirose T, et al. Giant Plexiform Schwannoma. A Report of Two Cases with Soft Tissue and Visceral Involvement. *Mod Pathol* 1997; 10(11):1075-1081.

Reith JD, et al. Multiple Cutaneous Plexiform Schwannomas. Report of a Case and Review of the Literature with Particular Reference to the Association with Types 1 and 2 Neurofibromatosis and Schwannomatosis. *Arch Pathol Lab Med* 1996; 120(4):399-401.

Sheikh S, et al. Multiple Plexiform Schwannomas in a Patient with Neurofibromatosis. *J Thorac Cardiovasc Surg* 1998; 115(1):240-242.

Ishida T, et al. Phenotypic Diversity of Neurofibromatosis 2. Association with Plexiform Schwannoma. *Histopathol* 1998; 32(3):264-270.

Val-Bernal JF, et al. Cutaneous Plexiform Schwannoma Associated with Neurofibromatosis Type 2. *Cancer* 1995; 76(7):1181-1186.

Mountain View (El Camino Assoc.) - Malignant peripheral nerve sheath tumor
Orange (UCI Medical Center Residents) - Malignant peripheral nerve sheath tumor (6); Synovial sarcoma (2)
San Diego (Naval Medical Center) - Malignant peripheral nerve sheath tumor
Arizona (Phoenix Memorial Hospital) - Malignant peripheral nerve sheath tumor
Colorado (Unipath) - Sarcoma
Texas (Fair Oaks Ranch) - Spindle cell neoplasm, NOS
Texas (Lubbock) - Synoviosarcoma
Texas (Fort Worth) - Fibrosarcoma
Louisiana (River Ridge) - Fibrosarcoma
Kansas (Stormont Vail Hospital) - Monophasic synovial sarcoma
Florida (Monroe Regional Medical Center) - Malignant peripheral nerve sheath tumor
Florida (Winter Haven) - Synovial sarcoma
Florida, Miami (Hospital Pathologist) - Malignant peripheral nerve sheath tumor
Michigan (St. Mary's Hospital) - Fibrosarcoma (1); Malignant peripheral nerve sheath tumor (1)
Indiana (Fort Wayne) - Spindle cell neoplasm, favor spindled monophasic synovial sarcoma
Wisconsin (Middleton) - Malignant peripheral nerve sheath tumor
Kentucky (Univ of Louisville Residents) - Malignant peripheral nerve sheath tumor (Malignant Schwannoma)
Maryland (University of Maryland) - Malignant peripheral nerve sheath tumor
Maryland (National Naval Medical Center) - Monophasic synovial sarcoma (12); Malignant peripheral nerve sheath tumor (2)
Pennsylvania (Conemaugh Memorial Medical Center Residents) - Monophasic synovial sarcoma
New York (Impath) - Fibrosarcoma
New York (Beth Israel Medical Center Residents) - Malignant peripheral nerve sheath tumor
Massachusetts (Longmeadow) - Fibrosarcoma
Massachusetts (Good Samaritan Medical Center) - Hemangiopericytoma
Canada, Calgary (Foothills Hospital) - Fibrosarcoma
Japan, Kurashiki (Kawasaki Medical School Hospital) - Malignant peripheral nerve sheath tumor (2); Synovial sarcoma (1)
Japan (Shimada City) - Malignant peripheral nerve sheath tumor
China (Hubei Cancer Hospital and Institute) - Malignant fibrous histiocytoma, supraclavicular area
Saudi Arabia (King Khalid University Hospital) - Spindle cell sarcoma, most likely malignant peripheral nerve sheath tumor

DIAGNOSIS:

Spindle Cell Sarcoma, Favor Malignant Peripheral Nerve Sheath Tumor, Supraclavicular Region
T-Y1230, M-95603

REFERENCES:
Leader M, et al. An Analysis of the Sensitivity and Specificity of the Cytokeratin Marker CAM 5.2 for Epithelial Tumours. Results of a Study of 203 Sarcomas, 50 Carcinomas and 28 Malignant Melanomas. *Histopathol* 1986; 10(12):1315-1324.
Hirose T, et al. Perineurial Malignant Peripheral Nerve Sheath Tumor (MPNST). A Clinicopathologic, Immunohistochemical, and Ultrastructural Study of Seven Cases. *Am J Surg Pathol* 1998; 22(11):1368-1378.
Jimenez-Heffernan JA, et al. Cytologic Features of Malignant Peripheral Nerve Sheath Tumor. *Acta Cytol* 1999; 43(2):175-183.
Mertens F, et al. Cytogenetic Findings in Malignant Peripheral Nerve Sheath Tumors. *Int J Cancer* 1995; 61(6):793-798.

Mountain View (El Camino Assoc.) - GI stromal tumor
Orange (UCI Medical Center Residents) - Gastrointestinal stromal tumor
San Diego (Naval Medical Center) - Epithelioid gastrointestinal stromal tumor
Arizona (Phoenix Memorial Hospital) - Gastrointestinal stromal tumor (GIST)
Colorado (Unipath) - Vascular neoplasm
Texas (Fair Oaks Ranch) - Gastrointestinal stromal tumor
Texas (Lubbock) - Epithelioid hemangiopericytoma
Texas (Fort Worth) - Epithelioid leiomyosarcoma
Louisiana (River Ridge) - Gastrointestinal stromal tumor
Kansas (Stormont Vail Hospital) - Epithelioid leiomyosarcoma
Florida (Monroe Regional Medical Center) - GIST tumor
Florida (Winter Haven) - GI stromal tumor, malignant potential uncertain
Florida, Miami (Hospital Pathologist) - Epithelioid hemangioendothelioma
Michigan (St. Mary's Hospital) - Epithelioid leiomyosarcoma (1); Gastrointestinal stromal tumor (1)
Indiana (Fort Wayne) - Gastrointestinal stromal tumor, stomach
Wisconsin (Middleton) - Epithelioid stromal tumor (GIST)
Kentucky (Univ of Louisville Residents) - Gastrointestinal stromal tumor of uncertain malignant potential
Maryland (University of Maryland) - Epithelioid GIST, borderline
Maryland (National Naval Medical Center) - Gastrointestinal stromal tumor (GIST) of uncertain malignant potential (16)
Pennsylvania (Conemaugh Memorial Medical Center Residents) - Gastrointestinal stromal tumor, malignant potential
New York (Impath) - Gastrointestinal stromal tumor
New York (Beth Israel Medical Center Residents) - Gastrointestinal stromal tumor
Massachusetts (Longmeadow) -Gastrointestinal stromal tumor, stomach
Massachusetts (Good Samaritan Medical Center) - Gastrointestinal stromal tumor, epithelioid type
Canada, Calgary (Foothills Hospital) - Gastrointestinal stromal tumor
Japan, Kurashiki (Kawasaki Medical School Hospital) - Gastrointestinal stromal tumor (3)
Japan (Shimada City) - Gastric epithelioid stromal tumor, low-grade
China (Hubei Cancer Hospital and Institute) - Hemangiosarcoma, stomach
Saudi Arabia (King Khalid University Hospital) - Gastrointestinal stromal tumor, of borderline malignancy

DIAGNOSIS:

Borderline Gastric Stromal Tumor, Epithelioid Type
T-63000, M-82401

CONSULTATION: Klaus Lewin, M.D., UCLA Center for Health Sciences. "Borderline gastric stromal tumor, epithelioid type."

REFERENCES:

van de Rijn M, et al. CD34 Expression by Gastrointestinal Tract Stromal Tumors. *Hum Pathol* 1994; 25(8):766-771.
Hurlimann J, et al. Gastrointestinal Stromal Tumours. An Immunohistochemical Study of 165 Cases. *Histopathol* 1991; 19(4):311-320.
Suster S. Gastrointestinal Stromal Tumors. *Semin Diagn Pathol* 1996; 13(4):297-313.
Miettinen M, et al. Gastrointestinal Stromal Tumors—Value of CD34 Antigen in Their Identification and Separation from True Leiomyomas and Schwannomas. *Am J Surg Pathol* 1995; 19(2):207-216.
Lee JS, et al. Epithelioid Gastric Stromal Tumors (Leiomyoblastomas). A Study of Fifty-Five Cases. *Surg* 1995; 118(4):653-661.
Sarlomo-Rikala, et al. CD117. A Sensitive Marker for Gastrointestinal Stromal Tumors that is More Specific Than CD34. *Mod Pathol* 1998; 11(8):728-734.

Mountain View (El Camino Assoc.) - Hibernoma
Orange (UCI Medical Center Residents) - Hibernoma (6); Atypical lipoma (atypical lipomatous tumor) (2)
San Diego (Naval Medical Center) - Hibernoma
Arizona (Phoenix Memorial Hospital) - Atypical lipomatous tumor
Colorado (Unipath) - Lipoma
Texas (Fair Oaks Ranch) - Lipoma
Texas (Lubbock) - Liposarcoma
Texas (Fort Worth) - Lipoma
Louisiana (River Ridge) - Atypical lipoma
Kansas (Stormont Vail Hospital) - Hibernoma
Florida (Monroe Regional Medical Center) - Hibernoma
Florida (Winter Haven) - Hibernoma
Florida, Miami (Hospital Pathologist) - Lipoma with macrophages
Michigan (St. Mary's Hospital) - Hibernoma (2)
Indiana (Fort Wayne) - Atypical lipoma with hibernoma features
Wisconsin (Middleton) - Lipoma
Kentucky (Univ of Louisville Residents) - Well-differentiated liposarcoma
Maryland (University of Maryland) - Hibernoma
Maryland (National Naval Medical Center) - Lipoma with hibernomatous change (8); Hibernoma (8)
Pennsylvania (Conemaugh Memorial Medical Center Residents) - Fibrolipoma
New York (Impath) - Lipoma_____? Brown fat? lipoblastoma
New York (Beth Israel Medical Center Residents) - Hibernoma
Massachusetts (Longmeadow) - Hibernoma, arm
Massachusetts (Good Samaritan Medical Center) - Atypical lipoma
Canada, Calgary (Foothills Hospital) - Hibernoma
Japan, Kurashiki (Kawasaki Medical School Hospital) - Atypical lipomatous tumor (2); Lipoma with fat necrosis (1)
Japan (Shimada City) - Well-differentiated liposarcoma
China (Hubei Cancer Hospital and Institute) - Superficial atypical lipoma, left arm
Saudi Arabia (King Khalid University Hospital) - Hibernoma

DIAGNOSIS:

Lipoma with Hibernomatous Features, Left Arm
T-Y8000, M-88500

REFERENCES:
Suster S, et al. Immunoreactivity for the Human Hematopoietic Progenitor Cell Antigen (CD34) in Lipomatous Tumors. Am J *Surg Pathol* 1997; 21(2):195-200.
Mertens, F, et al. Hibernomas are Characterized by Rearrangements of Chromosome Bands 11q13-21. *Int J Cancer* 1994; 58(4):503-505.
Chen DY, et al. Hibernoma. Case Report and Literature Review. *Dermatol Surg* 1998; 24(3):393-395.
Weiss, SW, et al. Lipomatous Tumors. *Monogr Pathol* 1996; 38:207-239.
Gisselsson D, et al. Hibernomas are Characterized by Homozygous Deletions in the Multiple Endocrine Neoplasia Type I Region. Metaphase Fluorescence In Situ Hybridization Reveals Complex Rearrangements Not Detected By Conventional Cytogenetics. *Am J Pathol* 1999; 155(1):61-66.

Mountain View (El Camino Assoc.) - Round cell liposarcoma vs. sarcoma, NOS
Orange (UCI Medical Center Residents) - Epithelioid hemangioendothelioma
San Diego (Naval Medical Center) - Metastatic synovial sarcoma (5); Dermatofibrosarcoma protuberance (5)
Arizona (Phoenix Memorial Hospital) - Malignant fibrous histiocytoma
Colorado (Unipath) - Sarcoma
Texas (Fair Oaks Ranch) - Synovial sarcoma
Texas (Lubbock) - Hemangiopericytoma
Texas (Fort Worth) - Metastatic synovial sarcoma
Louisiana (River Ridge) - Dermatofibrosarcoma protuberance
Kansas (Stormont Vail Hospital) - Angiosarcoma
Florida (Monroe Regional Medical Center) - Liposarcoma, high grade
Florida (Winter Haven) - Epithelioid hemangioendothelioma
Florida, Miami (Hospital Pathologist) - Hemangioendothelioma
Michigan (St. Mary's Hospital) - Synovial sarcoma (1); Hemangiopericytoma (1)
Indiana (Fort Wayne) - Hemangiopericytoma, chest wall ? metastatic from thigh
Wisconsin (Middleton) - Malignant hemangiopericytoma
Kentucky (Univ of Louisville Residents) - Round cell liposarcoma vs. hemangiopericytoma, malignant
Maryland (University of Maryland) - Hemangiopericytoma, malignant
Maryland (National Naval Medical Center) - Hemangioendothelioma (12); Angiosarcoma (4)
Pennsylvania (Conemaugh Memorial Medical Center Residents) - Synovial sarcoma
New York (Impath) - Hemangioendothelioma
New York (Beth Israel Medical Center Residents) - Synovial sarcoma
Massachusetts (Longmeadow) - Synovial sarcoma, metastatic
Massachusetts (Good Samaritan Medical Center) - Epithelioid hemangioendothelioma
Canada, Calgary (Foothills Hospital) - Hemangioendothelioma
Japan, Kurashiki (Kawasaki Medical School Hospital) - Malignant solitary fibrous tumor (1); Hemangiopericytoma (1); Malignant mesothelioma (1)
Japan (Shimada City) - Epithelioid hemangioendothelioma
China (Hubei Cancer Hospital and Institute) - Hemangioendothelioma, chest wall
Saudi Arabia (King Khalid University Hospital) - Low grade sarcoma, possibly hemangioendothelioma

DIAGNOSIS:

Sarcoma, Chest Wall, Probably Metastatic from Myxoid/Round Cell Liposarcoma of Hip
(AFIP diagnosis on previous tumor, 5 years earlier)
T-Y2150, M-88503

REFERENCES:

Hieken TJ, et al. Mutant p53 Expression. A Marker of Diminished Survival in Well-Differentiated Soft Tissue Sarcoma. *Clin Cancer Res* 1996; 2(8):1391-1395.
Kuratsu S, et al. DNA Ploidy Pattern and Cell Cycle Stage of Tumor Cells in Soft-Tissue Sarcomas. Clinical Implications. *Oncol* 1995; 52(5):363-370.
Knight JC, et al. Translocation t(12; 16)(q13; p11) In Myxoid Liposarcoma and Round Cell Liposarcoma. Molecular and Cytogenetic Analysis. *Cancer Res* 1995; 55(1):24-27.
Kilpatrick SE, et al. The Clinicopathologic Spectrum of Myxoid and Round Cell Liposarcoma. A Study of 95 Cases. *Cancer* 1996; 77(8):1450-1458.
Smith TA, et al. Myxoid/Round Cell Liposarcoma of the Extremities. A Clinicopathologic Study of 29 Cases with Particular Attention to Extent of Round Cell Liposarcoma. *Am J Surg Pathol* 1996; 20(2):171-180.

Mountain View (El Camino Assoc.) - Pleomorphic liposarcoma
Orange (UCI Medical Center Residents) - Pleomorphic liposarcoma
San Diego (Naval Medical Center) - Pleomorphic liposarcoma
Arizona (Phoenix Memorial Hospital) - Pleomorphic liposarcoma
Colorado (Unipath) - Rhabdomyosarcoma
Texas (Fair Oaks Ranch) - Malignant fibrous histiocytoma
Texas (Lubbock) - Liposarcoma
Texas (Fort Worth) - Pleomorphic rhabdomyosarcoma
Louisiana (River Ridge) - Liposarcoma (pleomorphic type)
Kansas (Stormont Vail Hospital) - Liposarcoma
Florida (Monroe Regional Medical Center) - Liposarcoma, pleomorphic type
Florida (Winter Haven) - Pleomorphic liposarcoma
Florida, Miami (Hospital Pathologist) - Pleomorphic liposarcoma
Michigan (St. Mary's Hospital) - Giant cell malignant fibrous histiocytoma
Indiana (Fort Wayne) - Pleomorphic sarcoma (MFH), upper leg, right
Wisconsin (Middleton) - Pleomorphic liposarcoma
Kentucky (Univ of Louisville Residents) - Pleomorphic liposarcoma
Maryland (University of Maryland) - Pleomorphic liposarcoma
Maryland (National Naval Medical Center) - Pleomorphic liposarcoma (12)
Pennsylvania (Conemaugh Memorial Medical Center Residents) - Pleomorphic liposarcoma/pleomorphic malignant fibrous histiocytoma
New York (Impath) - Pleomorphic rhabdomyosarcoma
New York (Beth Israel Medical Center Residents) - Pleomorphic liposarcoma
Massachusetts (Longmeadow) - Dedifferentiated liposarcoma, leg
Massachusetts (Good Samaritan Medical Center) - Periosteal osteosarcoma
Canada, Calgary (Foothills Hospital) - Pleomorphic liposarcoma
Japan, Kurashiki (Kawasaki Medical School Hospital) - Pleomorphic liposarcoma (2); Pleomorphic sarcoma, NOS (1)
Japan (Shimada City) - Pleomorphic liposarcoma
China (Hubei Cancer Hospital and Institute) - Pleomorphic liposarcoma, right leg
Saudi Arabia (King Khalid University Hospital) - Pleomorphic liposarcoma

DIAGNOSIS:

Pleomorphic Liposarcoma, Leg
T-1X000, M-88503

REFERENCES:

Fletcher CD, et al. Correlation Between Clinicopathological Features and Karyotype in Lipomatous Tumors. A Report of 178 Cases from Chromosomes and Morphology (CHAMP) Collaborative Study Group. *Am J Pathol* 1996; 148(2):623-630.

Kilpatrick SE. Histopathologic Prognostication in Soft Tissue Sarcomas. Grading Versus Subtyping or Both? A Comprehensive Review of the Literature with Proposed Practical Guidelines. *Ann Diagn Pathol* 1999; 3(1):48-61.

McCormick D, et al. Dedifferentiated Liposarcoma. Clinicopathologic Analysis of 32 Cases Suggesting a Better Prognostic Subgroup Among Pleomorphic Sarcomas. *Am J Surg Pathol* 1994; 18(12):1213-1223.

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

Mertens F, et al. Cytogenetic Analysis of 46 Pleomorphic Soft Tissue Sarcomas and Correlation with Morphologic and Clinical Features. A Report of the CHAMP Study Group. Chromosomes and Morphology. *Genes Chromosomes Cancer* 1998; 22(1):16-25.

Mountain View (El Camino Assoc.) - Sclerosing liposarcoma, low grade
Orange (UCI Medical Center Residents) - Myxoid liposarcoma, low grade
San Diego (Naval Medical Center) - Myxoid malignant fibrous histiocytoma (myxoid fibrosarcoma)
Arizona (Phoenix Memorial Hospital) - Myxoid liposarcoma
Colorado (Unipath) - Spindle cell neoplasm
Texas (Fair Oaks Ranch) - Atypical neurofibroma
Texas (Lubbock) - Liposarcoma
Texas (Fort Worth) - Liposarcoma
Louisiana (River Ridge) - Myxoma
Kansas (Stormont Vail Hospital) - Myxoid liposarcoma
Florida (Monroe Regional Medical Center) - Liposarcoma, well-differentiated
Florida (Winter Haven) - Myxoid liposarcoma
Florida, Miami (Hospital Pathologist) - Myxoid liposarcoma
Michigan (St. Mary's Hospital) - Nerve sheath myxoma (1); Myxoma (1)
Indiana (Fort Wayne) - Myxoid liposarcoma, left spermatic cord
Wisconsin (Middleton) - Atypical lipoma
Kentucky (Univ of Louisville Residents) - Angiomyxoma
Maryland (University of Maryland) - Well-differentiated liposarcoma
Maryland (National Naval Medical Center) - Liposarcoma
Pennsylvania (Conemaugh Memorial Medical Center Residents) - Myxosarcoma, low grade/atypical lipoma
New York (Impath) - Sclerosing liposarcoma
New York (Beth Israel Medical Center Residents) - Hemangioendothelioma
Massachusetts (Longmeadow) - Well-differentiated liposarcoma, paratesticular
Massachusetts (Good Samaritan Medical Center) - Myxoid liposarcoma
Canada, Calgary (Foothills Hospital) - (Aggressive) angiomyxoma
Japan, Kurashiki (Kawasaki Medical School Hospital) - Well-differentiated liposarcoma (3)
Japan (Shimada City) - Fibroma
China (Hubei Cancer Hospital and Institute) - Myxoid liposarcoma, spermatic cord
Saudi Arabia (King Khalid University Hospital) - Sclerosing type of well-differentiated liposarcoma

DIAGNOSIS:

Low Grade Myxoid Sarcoma ("Myxofibrosarcoma"), Spermatic Cord
T-79300, M-88300

REFERENCES:

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

Merck C, et al. Myxofibrosarcoma. A Malignant Soft Tissue Tumor of Fibroblastic-Histiocytic Origin. A Clinicopathologic and Prognostic Study of 110 Cases Using Multivariate Analysis. *Acta Pathol Microbiol Immunol Scand Suppl* 1983; 282:1-40.

Soosay GN. Paratesticular Sarcomas Revisited. A Review of Cases in the British Testicular Tumour. Panel and Registry. *Br J Urol* 1996; 77(1):143-146.

Catton CN, et al. Adult Paratesticular Sarcomas. A Review of 21 Cases. *J Urol* 1991; 146(2):342-345.

Mountain View (El Camino Assoc.) - Synovial sarcoma
Orange (UCI Medical Center Residents) - Sarcoma, favor hemangiopericytoma
San Diego (Naval Medical Center) - Synovial sarcoma (cystic)
Arizona (Phoenix Memorial Hospital) - Rhabdomyosarcoma, spindle cell type
Colorado (Unipath) - Rhabdomyosarcoma
Texas (Fair Oaks Ranch) - PNET
Texas (Lubbock) - Kaposi's sarcoma
Texas (Fort Worth) - Angiosarcoma
Louisiana (River Ridge) - Hemangioendothelioma
Kansas (Stormont Vail Hospital) - Angiosarcoma
Florida (Monroe Regional Medical Center) - Angiomatoid malignant fibrous histiocytoma
Florida (Winter Haven) - Extraskeletal Ewing's sarcoma
Florida, Miami (Hospital Pathologist) - Angiomatoid MFH
Michigan (St. Mary's Hospital) - Kaposi's sarcoma (2)
Indiana (Fort Wayne) - Small round cell sarcoma, favor embryonal rhabdomyosarcoma
Wisconsin (Middleton) - Synovial sarcoma
Kentucky (Univ of Louisville Residents) - Angiomatoid fibrous histiocytoma
Maryland (University of Maryland) - Synovial sarcoma vs. hemangioendothelioma
Maryland (National Naval Medical Center) - Clear cell sarcoma (13); Extraskeletal Ewing sarcoma (4)
Pennsylvania (Conemaugh Memorial Medical Center Residents) - Angiosarcoma/lymphangiosarcoma
New York (Impath) - PNET—Ewing's sarcoma
New York (Beth Israel Medical Center Residents) - Myxoma
Massachusetts (Longmeadow) - Synovial cell sarcoma, thigh
Massachusetts (Good Samaritan Medical Center) - Malignant blue cell tumor
Canada, Calgary (Foothills Hospital) - Embryonal rhabdomyosarcoma
Japan, Kurashiki (Kawasaki Medical School Hospital) - Synovial sarcoma (2); Fibrosarcoma (1)
Japan (Shimada City) - Hemangiopericytoma
China (Hubei Cancer Hospital and Institute) - Hemangiosarcoma, thigh
Saudi Arabia (King Khalid University Hospital) - Angiomatoid fibrous histiocytoma

DIAGNOSIS:

Consistent with Monophasic Synovial Sarcoma, Thigh

Director's Note: Immunostains for Keratin (cocktail), S-100, Ewing's marker (CD99), desmin, CD31 and CD34 were negative. There was focal positivity for epithelial membrane antigen (EMA). (drc)

T-Y9100, M-90403

REFERENCES:

Kawai A, et al. SYT-SSX Fusion as a Determinant of Morphology and Prognosis in Synovial Sarcoma. *N Eng J Med* 1998; 338(3):153-160.

Fisher C. Synovial Sarcoma. *Ann Diagn Pathol* 1998; 2(6):401-421.

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

van de Rijn M, et al. Poorly Differentiated Synovial Sarcoma. An Analysis of Clinical, Pathologic, and Molecular Genetic Features. *Am J Surg Pathol* 1999; 23(1):106-112.

Lopes JM, et al. Proliferative Activity of Synovial Sarcoma. An Immunohistochemical Evaluation of Ki-67 Labeling Indices of 52 primary and Recurrent Tumors. *Ultrastruct Pathol* 1995; 19(2):101-106.

Viguer JM, et al. Cytologic Features of Synovial Sarcoma with Emphasis on the Monophasic Fibrous Variant. A Morphologic and Immunocytochemical Analysis of bcl-2 Protein Expression. *Cancer* 1998; 84(1):50-56.

Mountain View (El Camino Assoc.) - Embryonal rhabdomyosarcoma
Orange (UCI Medical Center Residents) - Rhabdomyosarcoma
San Diego (Naval Medical Center) - Embryonal rhabdomyosarcoma
Arizona (Phoenix Memorial Hospital) - Rhabdomyosarcoma, pleomorphic
Colorado (Unipath) - Signet ring cell carcinoma
Texas (Fair Oaks Ranch) - Rhabdomyosarcoma, alveolar
Texas (Lubbock) - Rhabdomyosarcoma
Texas (Fort Worth) - Embryonal rhabdomyosarcoma
Louisiana (River Ridge) - Rhabdomyosarcoma
Kansas (Stormont Vail Hospital) - Rhabdomyosarcoma
Florida (Monroe Regional Medical Center) - Rhabdomyosarcoma
Florida (Winter Haven) - Rhabdomyosarcoma
Florida, Miami (Hospital Pathologist) - Juvenile xanthogranuloma
Michigan (St. Mary's Hospital) - Rhabdomyosarcoma (1); Alveolar rhabdomyosarcoma (1)
Indiana (Fort Wayne) - Alveolar rhabdomyosarcoma
Wisconsin (Middleton) - Rhabdomyosarcoma, alveolar type
Kentucky (Univ of Louisville Residents) - Rhabdomyosarcoma
Maryland (University of Maryland) - Rhabdomyosarcoma, embryonal
Maryland (National Naval Medical Center) - Rhabdomyosarcoma (10); Embryonal rhabdomyosarcoma (7)
Pennsylvania (Conemaugh Memorial Medical Center Residents) - Embryonal rhabdomyosarcoma
New York (Impath) - Alveolar rhabdomyosarcoma
New York (Beth Israel Medical Center Residents) - Rhabdomyosarcoma
Massachusetts (Longmeadow) - Rhabdomyosarcoma, external ear
Massachusetts (Good Samaritan Medical Center) - Malignant melanoma, nodular
Canada, Calgary (Foothills Hospital) - Alveolar rhabdomyosarcoma
Japan, Kurashiki (Kawasaki Medical School Hospital) - Rhabdomyosarcoma (2); Fibrosarcoma (1)
Japan (Shimada City) - Embryonal rhabdomyosarcoma
China (Hubei Cancer Hospital and Institute) - Rhabdomyosarcoma, left external ear
Saudi Arabia (King Khalid University Hospital) - Alveolar rhabdomyosarcoma

DIAGNOSIS:

Rhabdomyosarcoma, External Ear
T-XY100, M-89103

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