



CALIFORNIA
TUMOR TISSUE REGISTRY

SOFT TISSUE PATHOLOGY

Minutes – Subscription A

April 2011



SUGGESTED READING (General Topics from Recent Literature):

Mitotic Activity Within Dermal Melanocytes of Benign Melanocytic Nevi: A Study of 100 Cases With Clinical Follow-Up. Ruhoy SM, Kolker SE, Murry TC. *Am J Dermatopathol* 2011;33:167-172.

Colorectal Glandular-Neuroendocrine Mixed Tumor: Pathologic Spectrum and Clinical Implications. Li Y, Yau A, et al. *Am J Surg Pathol* 2011;35:413-425.

Early Gallbladder Carcinoma: A Clinicopathologic Study of 13 Cases of Intramucosal Carcinoma. Albores-Saavedra J, Chable-Montero F, et al. *Am J Clin Pathol* 2011;135:637-642.

DOG1 Antibody Is a Highly Sensitive and Specific Marker for Gastrointestinal Stromal Tumors in Cytology Cell Blocks. Hwang DG, Qian K, Hornick J. *Am J Clin Pathol* 2011;135:448-453.

Axillary Dissection vs. No Axillary Dissection In Women With Invasive Breast Cancer and Sentinel Node Metastasis: A Randomized Clinical Trial. Giuliano AE, Hunt KK, et al. *JAMA* 2011;305:569-575.

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FILE DIAGNOSES

CTTR Subscription A

April 2011

Case 1:

Angiomyolipoma, kidney
T-71000, M-88603

Case 2:

Gouty tophus, toe
T-Y9800, M-55070

Case 3:

Ossifying fibromyxoid tumor, hand
T-Y8700, M-88110

Case 4:

Low grade fibromyxoid sarcoma, arm
T-Y8000, M-88110

Case 5:

Angiosarcoma, right atrium
T-32000, M-91203

Case 6:

Plexiform schwannoma, thigh
T-Y9100, M-95600

Case 7:

Myxoid liposarcoma, thigh
T-Y9100, M-88523

Case 8:

Mixed liposarcoma with pleomorphic and myxoid/round cell subtypes
T-Y4600, M-88523

Case 9:

Atypical lipomatous neoplasm (“atypical lipoma”), thigh
T-Y9100, M-88500

Case 10:

Leiomyosarcoma, leg
TY9400, M-88903

Alameda (Alameda County Medical Center) - Angiomyolipoma
Fontana (Kaiser Foundation Hospital) - Angiomyolipoma
Glendale - Angiomyolipoma
Hayward (St. Rose Hospital) - Angiomyolipoma
Long Beach (Long Beach Veterans Hospital) - Angiomyolipoma
Oxnard (St. John's Regional Medical Center) - Angiomyolipoma (3)
Santa Barbara (Miramonte Laboratory) - Angiomyolipoma
Woodland Hills (Kaiser Permanente) - Angiomyolipoma
Arkansas (Associated Pathologists Laboratory) - Angiomyolipoma
Colorado (McKee Medical Center) - Angiomyolipoma
Florida (Gastroenterology Associates of Ocala) - Xanthogranulomatous pyelonephritis
Florida (Munroe Regional Medical Center) - Angiomyolipoma
Florida (Naples Pathology Associates) - Angiomyolipoma
Florida, Tallahassee - Angiomyolipoma
Florida (The Pathology Group of NW Florida) - Angiomyolipoma
Georgia, Atlanta - Angiomyolipoma
Georgia (Emory University) - Angiomyolipoma
Illinois, Chicago - Angiomyolipoma
Illinois (Heartland Regional Medical Center) - Angiomyolipoma
Maryland (University of Maryland) - Angiomyolipoma
Massachusetts (BWH-Pathology) - Angiomyolipoma (AML), kidney
Massachusetts, Peabody - Renal cell carcinoma, sarcomatoid
Massachusetts (University of Massachusetts Medical Center) - _ Angiomyolipoma
Minnesota (Fairview Ridges Hospital) - Angiomyolipoma
Missouri (Missouri Delta Medical Center) - Angiomyolipoma
Missouri (St. Luke's Hospital) - Angiomyolipoma
Nebraska (Creighton University Medical Center) - Angiomyolipoma
New Mexico (University of New Mexico) - Angiomyolipoma
New York (Erie County Medical Center) - Angiomyolipoma
New York (Staten Island University Hospital) - Angiomyolipoma
New York (SUNY Downstate Medical Center Residents) - Angiomyolipoma
New York (SUNY Stony Brook University Hospital) - Angiomyolipoma
North Carolina (Wake Forest University School of Medicine Residents) - Angiomyolipoma of the kidney
Ohio, Union Town - Angiomyolipoma
Ohio (University of Toledo Medical Center Residents) - Angiomyolipoma, kidney
Pennsylvania (Conemaugh Valley Memorial Hospital) - Angiomyolipoma
Pennsylvania (Drexel University College of Medicine) - Angiomyolipoma
Pennsylvania (Magee Women's Hospital) - Angiomyolipoma
Puerto Rico (University of Puerto Rico School of Medicine) - Angiomyolipoma
Texas (Carl R. Darnall Army Medical Center) - Angiomyolipoma
Texas, Crystal Beach - Angiomyolipoma
Texas, Lubbock - Epithelioid angiomyolipoma
Utah (Huntsman Cancer Hospital) - Angiomyolipoma
Virginia, Falls Church - Angiomyolipoma
Washington (Seattle VAMC) - Angiomyolipoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Angiomyolipoma
West Virginia (Greenbrier Valley Medical Center) - Angiomyolipoma
Australia (Royal Hobart Hospital) - Angiomyolipoma, kidney
Australia (Royal Prince Alfred Hospital) - Angiomyolipoma
Australia (St. Vincent's Hospital, Sydney) - Angiomyolipoma
Australia (Sullivan Nicolaides Pathology) - Angiomyolipoma, kidney
Canada (Pasqua Hospital) - Angiomyolipoma
Canada (University of Sherbrooke) - Angiomyolipoma
England (John Radcliffe Hospital) - Angiomyolipoma
Ireland (Kerry General Hospital) - Angiomyolipoma

Ireland (UCH Galway) - Angiomyolipoma
Japan (Aichi Medical University) - Angiomyolipoma
Japan (Asashi General Hospital) - Angiomyolipoma
Japan (Lions Mansion Nijyo-Ekima) - Angiomyolipoma, left kidney
Japan, Tokyo (Setagaya-Ku) - Angiomyolipoma
Japan (University of Yamanashi) - Angiomyolipoma
Oman (Sultanate of Azaiba) - Angiomyolipoma
Saudi Arabia (King Khalid University Hospital) - Angiomyolipoma
Singapore (Freelance/Locum Practice) - Angiomyolipoma
The Netherlands, Amstelveen - Angiomyolipoma

Case 1 - Diagnosis:

Angiomyolipoma, kidney
 T-71000, M-88603

Case 1 - References:

Renal epithelioid angiomyolipoma with atypia: a series of 40 cases with emphasis on clinicopathologic prognostic indicators of malignancy. Brimo F; Robinson B; Guo C; Zhou M; Latour M; Epstein JI. *Am J Surg Pathol* 2010; May;34(5): p715-22.
 Renal angiomyolipomas--a study of 18 cases. Kulkarni B; Desai SB; Dave B; Tongaonkar HB; Kulkarni JN; Chinoy RF. *Indian J Pathol Microbiol* 2005; Oct;48(4): p459-63.
 Expression of KIT (CD117) in angiomyolipoma. Makhlof HR; Remotti HE; Ishak KG. *Am J Surg Pathol* 2002; Apr;26(4): p493-7.
 Epithelioid angiomyolipoma with skeletal and pulmonary metastasis on 8 year follow-up. Gaston CL; Slavin J; Henderson M; Choong PF. *Pathology* 2010; 42(6): p591-4.
 Cutaneous angiomyolipomas are HMB45 negative, not associated with tuberous sclerosis, and should be considered as angioleiomyomas with fat. Beer TW. *Am J Dermatopathol* 2005; Oct;27(5): p418-21.
 Atypical angiomyolipoma of kidney in a patient with tuberous sclerosis: a case report with p53 gene mutation analysis. Ma L; Kowalski D; Javed K; Hui P. *Arch Pathol Lab Med* 2005; May;129(5): p676-9.

Case No. 2, Accession No. 29813

April 2011

Alameda (Alameda County Medical Center) - Gout (tophaceous)
Fontana (Kaiser Foundation Hospital) - Gout
Glendale - Gouty tophus
Hayward (St. Rose Hospital) - Gouty tophus
Long Beach (Long Beach Veterans Hospital) - Tophus (uric acid depositis-gout)
Oxnard (St. John's Regional Medical Center) - Gouty tophus
Santa Barbara (Miramonte Laboratory) - Tophus
Woodland Hills (Kaiser Permanente) - Tophaceous gout
Arkansas (Associated Pathologists Laboratory) - Gouty tophus
Colorado (McKee Medical Center) - Gouty tophus
Florida (Gastroenterology Associates of Ocala) - Tophus of gout
Florida (Munroe Regional Medical Center) - Gouty tophus
Florida (Naples Pathology Associates) - Gouty tophus
Florida, Tallahassee - Gouty tophus
Florida (The Pathology Group of NW Florida) - Gouty tophus
Georgia, Atlanta - Gout
Georgia (Emory University) - Gout
Illinois, Chicago - Gout
Illinois (Heartland Regional Medical Center) - Gouty tophus
Maryland (University of Maryland) - Gout
Massachusetts (BWH-Pathology) - Gout
Massachusetts, Peabody - Gouty tophus
Massachusetts (University of Massachusetts Medical Center) - Gout

Minnesota (Fairview Ridges Hospital) - Tophaceous gout
Missouri (Missouri Delta Medical Center) - Gout
Missouri (St. Luke's Hospital) - Tophus (gout)
Nebraska (Creighton University Medical Center) - Gouty tophus
New Mexico (University of New Mexico) - Gout
New York (Erie County Medical Center) - Gouty tophi
New York (Staten Island University Hospital) - Gout
New York (SUNY Downstate Medical Center Residents) - Gout, tophus
New York (SUNY Stony Brook University Hospital) - Tophaceous gout
North Carolina (Wake Forest University School of Medicine Residents) - Gout
Ohio, Union Town - Gouty tophus
Ohio (University of Toledo Medical Center Residents) - Gout, toe
Pennsylvania (Conemaugh Valley Memorial Hospital) - Tophy gout
Pennsylvania (Drexel University College of Medicine) - Gout
Pennsylvania (Magee Women's Hospital) - Tophus (gout)
Puerto Rico (University of Puerto Rico School of Medicine) - Gouty tophi
Texas (Carl R. Darnall Army Medical Center) - Tophaceous gout
Texas, Crystal Beach - Gout (tophus)
Texas, Lubbock - Gout tophus
Utah (Huntsman Cancer Hospital) - Gout tophus
Virginia, Falls Church - Gouty tophus
Washington (Seattle VAMC) - Gouty tophus
Wisconsin (Medical Assessment and Consultation, S.C.) - Gouty tophus
West Virginia (Greenbrier Valley Medical Center) - Tophus
Australia (Royal Hobart Hospital) - Tophaceous gout
Australia (Royal Prince Alfred Hospital) - Gout
Australia (St. Vincent's Hospital, Sydney) - Gout
Australia (Sullivan Nicolaides Pathology) - Chronic tophaceous gout
Canada (Pasqua Hospital) - Gout
Canada (University of Sherbrooke) - Goutous tophus
England (John Radcliffe Hospital) - Gouty tophus
Ireland (Kerry General Hospital) - Gouty tophus
Ireland (UCH Galway) - Gouty tophus
Japan (Aichi Medical University) - Gouty tophi
Japan (Asashi General Hospital) - Gouty tophus
Japan (Lions Mansion Nijyo-Ekima) - Gout (gouty tophus), right great toe
Japan, Tokyo (Setagaya-Ku) - Gouty nodule
Japan (University of Yamanashi) - Gouty tophus
Oman (Sultanate of Azaiba) - Gouty tophi
Saudi Arabia (King Khalid University Hospital) - Tophus in a case of gout
Singapore (Freelance/Locum Practice) - Gouty tophus
The Netherlands, Amstelveen - Gout

Case 2 - Diagnosis:

Gouty tophus, toe

T-Y9800, M-55070

Case 2 - References:

Diagnostic value of fine needle aspiration cytology in gouty tophi: a report of 7 cases. Bhadani PP; Sah SP; Sen R; Singh RK. *Acta Cytol* 2006; Jan-Feb;50(1): p101-4.
 Gouty arthritis. A primer on late-onset gout. Ene-Stroescu D; Gorbien MJ. *Geriatrics* 2005; Jul;60(7): p24-31.
 Crystal arthritis. Gout and pseudogout in the geriatric patient. Cassetta M; Gorevic PD. *Geriatrics* 2004; Sep;59(9): p25-30; quiz 31.
 Use of standard hematoxylin-eosin to stain gouty tophus specimens. Margo CE. *Arch Ophthalmol* 2004; Apr;122(4): p665.
 Advanced imaging of gout. Gentili A. *Semin Musculoskelet Radiol* 2003; Sep;7(3): p165-74.

Alameda (Alameda County Medical Center) - Fibroma of tendon sheath
Fontana (Kaiser Foundation Hospital) - Malignant neoplasm
Glendale - Epithelioid sarcoma vs. epithelioid hemangioendothelioma
Hayward (St. Rose Hospital) - Nodular tenosynovitis
Long Beach (Long Beach Veterans Hospital) - Myopericytoma
Oxnard (St. John's Regional Medical Center) - Fibroxanthoma (1); Hemangiopericytoma/glomangioma (2)
Santa Barbara (Miramonte Laboratory) - Organizing thrombus
Woodland Hills (Kaiser Permanente) - Glomus tumor
Arkansas (Associated Pathologists Laboratory) - Fibroma of tendon sheath
Colorado (McKee Medical Center) - Glomus tumor
Florida (Gastroenterology Associates of Ocala) - Proliferative periburcitis
Florida (Munroe Regional Medical Center) - Fibroma of tendon sheath
Florida (Naples Pathology Associates) - Masson's tumor
Florida, Tallahassee - Epithelioid sarcoma
Florida (The Pathology Group of NW Florida) - Ossifying fibromyxoid tumor of soft tissue
Georgia, Atlanta - Ossifying fibromyxoid tumor
Georgia (Emory University) - Ossifying fibromyxoid tumor of soft parts
Illinois, Chicago - Nodular fasciitis
Illinois (Heartland Regional Medical Center) - Benign fibrous neoplasm, NOS
Maryland (University of Maryland) - Angiomatoid MFH vs. calcifying aponeurotic fibroma (defer to immunostains and FISH)
Massachusetts (BWH-Pathology) - Pecoma of soft tissue
Massachusetts, Peabody - Myositis ossificans
Massachusetts (University of Massachusetts Medical Center) - Angiomyofibroblastoma
Minnesota (Fairview Ridges Hospital) - Ossifying fibromyxoid tumor of soft tissue
Missouri (Missouri Delta Medical Center) - Ossifying fibromyxoid tumor
Missouri (St. Luke's Hospital) - Hemangiopericytoma
Nebraska (Creighton University Medical Center) - Fibroma of tendon sheath
New York (Erie County Medical Center) - Myofibroblastoma favor ossifying fibromyxoid tumor
New York (Staten Island University Hospital) - Epithelioid benign histiocytoma
New York (SUNY Downstate Medical Center Residents) - Ossifying fibromyxoid tumor
New York (SUNY Stony Brook University Hospital) - Localized nodular tenosynovitis (lacking giant cells), hand
North Carolina (Wake Forest University School of Medicine Residents) - Ossifying fibromyxoid tumor
Ohio, Union Town - Fibroma of tendon sheath
Ohio (University of Toledo Medical Center Residents) - Fibroma of tendon sheath, hand
Pennsylvania (Conemaugh Valley Memorial Hospital) - Ossifying fibromyxoid tumor of soft tissue
Pennsylvania (Drexel University College of Medicine) - Ischemic fasciitis
Pennsylvania (Magee Women's Hospital) - Ossifying fibromyxoid tumor
Puerto Rico (University of Puerto Rico School of Medicine) - Ossifying fibromyxoid tumor
Texas (Carl R. Darnall Army Medical Center) - Ossifying fibromyxoid tumor
Texas, Crystal Beach - Solitary fibrous tumor
Texas, Lubbock - Clear cell sarcoma
Utah (Huntsman Cancer Hospital) - Glomus tumor
Virginia, Falls Church - Ossifying fibromyxoid tumor
Washington (Seattle VAMC) - Low grade neoplasm/reactive process, use ICC to ID cells/epithelioid hemangioma
Wisconsin (Medical Assessment and Consultation, S.C.) - Benign fibrosing lesion of soft tissue, has features of solitary fibrous tumor
West Virginia (Greenbrier Valley Medical Center) - Rheumatoid nodule
Australia (Royal Hobart Hospital) - Ossifying fibromyxoid tumor of soft tissues
Australia (St. Vincent's Hospital, Sydney) - Sclerosing epithelioid sarcoma
Australia (Sullivan Nicolaides Pathology) - Solitary fibrous tumor
Canada (Pasqua Hospital) - Ossifying fibromyxoid tumor
Canada (University of Sherbrooke) - Fibroma of the tendon sheath
England (John Radcliffe Hospital) - Solitary fibrous tumor
Ireland (Kerry General Hospital) - Fibro-osseous pseudotumor of joints

Ireland (UCH Galway) - Giant cell tumor of tendon sheath
Japan (Aichi Medical University) - Histiocytic tumor
Japan (Asashi General Hospital) - Epithelioid sarcoma
Japan (Lions Mansion Nijyo-Ekima) - Tenosynovial fibroma, left hand
Japan, Tokyo (Setagaya-Ku) - Pecoma
Oman (Sultanate of Azaiba) - Benign fibrous lesion/neoplasm
Saudi Arabia (King Khalid University Hospital) - Fibro-osseous pseudotumor of the hand
Singapore (Freelance/Locum Practice) - Vascular malformation, organized thrombus
The Netherlands, Amstelveen - Hemorrhage reactive

Case 3 - Diagnosis:

Ossifying fibromyxoid tumor, hand
T-Y8700, M-88110

Case 3 - References:

Ossifying fibromyxoid tumor of soft parts--a clinicopathologic and immunohistochemical study of 104 cases with long-term follow-up and a critical review of the literature. Miettinen M; Finnell V; Fetsch JF. *Am J Surg Pathol* 2008; Jul;32(7): p996-1005.

Ossifying fibromyxoid tumor of soft parts: a clinicopathologic study of 70 cases with emphasis on atypical and malignant variants. Folpe AL; Weiss SW. *Am J Surg Pathol* 2003; Apr;27(4): p421-31.

Cytologic diagnosis of ossifying fibromyxoid tumor of soft tissue: a case report. Mohanty SK; Srinivasan R; Rajwanshi A; Vasishta RK; Vignesh PS. *Diagn Cytopathol* 2004; Jan;30(1): p41-5.

Ossifying fibromyxoid tumor of soft parts with clonal chromosomal aberrations. Kawashima H; Ogose A; Umezumi H; Hotta T; Tohyama T; Tsuchiya M; Endo N. *Cancer Genet Cytogenet* 2007; Jul 15;176(2): p156-60.

Ossifying fibromyxoid tumor may express CD56 and CD99: a case report. Miliaras D; Meditskou S; Ketikidou M. *Int J Surg Pathol* 2007; Oct;15(4): p437-40.

Ossifying fibromyxoid tumor: invariable ultrastructural features and diverse immunophenotypic expression. Hirose T; Shimada S; Tani T; Hasegawa T. *Ultrastruct Pathol* 2007; May-Jun;31(3): p233-9.

Case No. 4, Accession No. 29779

April 2011

Alameda (Alameda County Medical Center) - Fibromyxoid sarcoma
Fontana (Kaiser Foundation Hospital) - Fibromyxoid sarcoma
Glendale - Low-grade fibromyxoid sarcoma
Hayward (St. Rose Hospital) - Intramuscular myxoma
Long Beach (Long Beach Veterans Hospital) - Angiofibroma with myxoid degeneration
Oxnard (St. John's Regional Medical Center) - Peripheral nerve sheath tissue; Low grade fibromyxoid sarcoma (2)
Santa Barbara (Miramonte Laboratory) - Neurofibroma
Woodland Hills (Kaiser Permanente) - Low grade fibromyxoid sarcoma
Arkansas (Associated Pathologists Laboratory) - Benign peripheral nerve sheath tumor, NOS
Colorado (McKee Medical Center) - Angiomyxoma
Florida (Gastroenterology Associates of Ocala) - Myxoma
Florida (Munroe Regional Medical Center) - Myofibromatosis
Florida (Naples Pathology Associates) - Nodular fasciitis
Florida, Tallahassee - Neurothekeoma, need ihc conf
Florida (The Pathology Group of NW Florida) - Juxta articular myxoma
Georgia, Atlanta - Low grade fibromyxoid sarcoma
Georgia (Emory University) - Low grade fibromyxoid sarcoma (Evans tumor)
Illinois, Chicago - Myxoma
Illinois (Heartland Regional Medical Center) - Fibromyxoid neoplasm, NOS
Maryland (University of Maryland) - Low grade fibromyxoid sarcoma
Massachusetts (BWH-Pathology) - Myopericytoma
Massachusetts, Peabody - Low grade fibromyxoid sarcoma
Massachusetts (University of Massachusetts Medical Center) - Low grade fibromyxoid sarcoma

Minnesota (Fairview Ridges Hospital) - Low grade fibromyxoid sarcoma
Missouri (Missouri Delta Medical Center) - Intramuscular myxoma
Missouri (St. Luke's Hospital) - Perineurioma
Nebraska (Creighton University Medical Center) - Low grade fibromyxoid sarcoma (Evan's tumor)
New Mexico (University of New Mexico) - Myxoma
New York (Erie County Medical Center) - Fibromyxoid sarcoma, low grade
New York (Staten Island University Hospital) - Intramuscular myxoma
New York (SUNY Downstate Medical Center Residents) - Low grade fibromyxoid sarcoma
New York (SUNY Stony Brook University Hospital) - Low grade fibromyxoid sarcoma
North Carolina (Wake Forest University School of Medicine Residents) - Low grade fibromyxoid sarcoma
Ohio, Union Town - Intramuscular myxoma
Ohio (University of Toledo Medical Center Residents) - Low grade fibromyxoid sarcoma, arm
Pennsylvania (Conemaugh Valley Memorial Hospital) - Low grade fibromyxoid fibrosarcoma
Pennsylvania (Drexel University College of Medicine) - Fibromatosis
Pennsylvania (Magee Women's Hospital) - Low grade fibromyxoid sarcoma
Puerto Rico (University of Puerto Rico School of Medicine) - Low grade fibromyxoid sarcoma
Texas (Carl R. Darnall Army Medical Center) - Low grade fibromyxoid sarcoma
Texas, Crystal Beach - Fibromatosis
Texas, Lubbock - Neurilemoma
Utah (Huntsman Cancer Hospital) - Low grade fibromyxoid sarcoma
Virginia, Falls Church - Intramuscular myxoma
Washington (Seattle VAMC) - Low grade stromal neoplasm/fibromyxoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Low grade fibromyxoid sarcoma
West Virginia (Greenbrier Valley Medical Center) - Intramuscular myxoma
Australia (Royal Hobart Hospital) - Low grade fibromyxoid sarcoma
Australia (Royal Prince Alfred Hospital) - Cellular myxoma/juxtarticular myxoma
Australia (St. Vincent's Hospital, Sydney) - Myxoid fibrosarcoma
Australia (Sullivan Nicolaides Pathology) - Low grade fibromyxoid sarcoma
Canada (Pasqua Hospital) - Low grade fibromyxoid sarcoma
Canada (University of Sherbrooke) - Extranural perineurinoma
England (John Radcliffe Hospital) - Low grade fibromyxoid sarcoma
Ireland (Kerry General Hospital) - Cellular myxoma
Ireland (UCH Galway) - Low grade fibromyxoid sarcoma
Japan (Aichi Medical University) - Low grade fibromyxoid sarcoma
Japan (Asashi General Hospital) - Fibrosarcoma, fibromyxoid type
Japan (Lions Mansion Nijyo-Ekimae) - Low grade fibromyxoid sarcoma, right arm
Japan, Tokyo (Setagaya-Ku) - Schwannoma
Japan (University of Yamanashi) - Schwannoma
Oman (Sultanate of Azaiba) - Low grade fibromyxoid sarcoma
Saudi Arabia (King Khalid University Hospital) - Intramuscular myxoma
Singapore (Freelance/Locum Practice) - Low grade fibromyxoid sarcoma
The Netherlands, Amstelveen - Low grade fibromyxoid sarcoma

Case 4 - Diagnosis:

Low grade fibromyxoid sarcoma, arm
 T-Y8000, M-88110

(AFIP consultation (2005): "Low grade fibromyxoid sarcoma"

Case 4 - References:

Low-grade fibromyxoid sarcoma: a brief review. Vernon SE; Bejarano PA. *Arch Pathol Lab Med* 2006; Sep;130(9): p1358-60.
 Superficial low-grade fibromyxoid sarcoma (Evans tumor): a clinicopathologic analysis of 19 cases with a unique observation in the pediatric population. Billings SD; Giblen G; Fanburg-Smith JC. *Am J Surg Pathol* 2005; Feb;29(2): p204-10.

Low-grade fibromyxoid sarcoma versus low-grade myxofibrosarcoma in the extremities and trunk. A comparison of clinicopathological and immunohistochemical features. Oda Y; Takahira T, etc. *Histopathology* 2004; Jul;45(1): p29-38.

Low-grade fibromyxoid sarcoma versus fibromatosis: a comparative study of clinicopathological and immunohistochemical features. Meng GZ; Zhang HY; Bu H; Geng JG. *Diagn Cytopathol* 2009; Feb;37(2): p96-102.

Low-grade fibromyxoid sarcoma is difficult to diagnose by fine needle aspiration cytology: a cytomorphological study of eight cases. Domanski HA; Mertens F; Panagopoulos I; Akerman M. *Cytopathology* 2009; Oct;20(5): p304-14.

Case No. 5, Accession No. 29936

April 2011

Alameda (Alameda County Medical Center) - Angiosarcoma
Fontana (Kaiser Foundation Hospital) - Angiosarcoma
Glendale - Angiosarcoma
Hayward (St. Rose Hospital) - Angiosarcoma
Long Beach (Long Beach Veterans Hospital) - Angiosarcoma
Oxnard (St. John's Regional Medical Center) - Angiosarcoma (3)
Santa Barbara (Miramonte Laboratory) - Angiosarcoma
Woodland Hills (Kaiser Permanente) - Angiosarcoma
Arkansas (Associated Pathologists Laboratory) - Angiosarcoma
Colorado (McKee Medical Center) - Solitary fibrous tumor
Florida (Gastroenterology Associates of Ocala) - Rhabdomyosarcoma
Florida (Munroe Regional Medical Center) - Angiosarcoma
Florida (Naples Pathology Associates) - Angiosarcoma
Florida, Tallahassee - Kaposi's sarcoma
Florida (The Pathology Group of NW Florida) - Poorly differentiated angiosarcoma
Georgia, Atlanta - Angiosarcoma
Georgia (Emory University) - Angiosarcoma
Illinois, Chicago - Angiosarcoma
Illinois (Heartland Regional Medical Center) - Angiosarcoma
Maryland (University of Maryland) - Angiosarcoma
Massachusetts (BWH-Pathology) - Angiosarcoma
Massachusetts, Peabody - Angiosarcoma, pericardium
Massachusetts (University of Massachusetts Medical Center) - Angiosarcoma
Minnesota (Fairview Ridges Hospital) - Angiosarcoma
Missouri (Missouri Delta Medical Center) - Angiosarcoma
Missouri (St. Luke's Hospital) - Angiosarcoma
Nebraska (Creighton University Medical Center) - Angiosarcoma
New Mexico (University of New Mexico) - Angiosarcoma
New York (Erie County Medical Center) - Angiosarcoma
New York (Staten Island University Hospital) - Angiosarcoma of heart
New York (SUNY Downstate Medical Center Residents) - Angiosarcoma
New York (SUNY Stony Brook University Hospital) - Lipidized angiosarcoma
North Carolina (Wake Forest University School of Medicine Residents) - Angiosarcoma
Ohio, Union Town - Angiosarcoma
Ohio (University of Toledo Medical Center Residents) - Angiosarcoma, heart
Pennsylvania (Conemaugh Valley Memorial Hospital) - High grade cardiac angiosarcoma
Pennsylvania (Drexel University College of Medicine) - Angiosarcoma
Pennsylvania (Magee Women's Hospital) - Angiosarcoma, high grade
Puerto Rico (University of Puerto Rico School of Medicine) - Angiosarcoma
Texas (Carl R. Darnall Army Medical Center) - Angiosarcoma
Texas, Crystal Beach - Angiosarcoma
Texas, Lubbock - Angiosarcoma
Utah (Huntsman Cancer Hospital) - Angiosarcoma
Virginia, Falls Church - Angiosarcoma of heart
Washington (Seattle VAMC) - High grade vascular neoplasm, angiosarcoma

Wisconsin (Medical Assessment and Consultation, S.C.) - High grade angiosarcoma
West Virginia (Greenbrier Valley Medical Center) - Rhabdomyosarcoma
Australia (Royal Hobart Hospital) - Angiosarcoma, heart
Australia (Royal Prince Alfred Hospital) - Angiosarcoma
Australia (St. Vincent's Hospital, Sydney) - Angiosarcoma
Australia (Sullivan Nicolaides Pathology) - Angiosarcoma
Canada (Pasqua Hospital) - Angiosarcoma
Canada (University of Sherbrooke) - Angiosarcoma
England (John Radcliffe Hospital) - Angiosarcoma
Ireland (Kerry General Hospital) - Angiosarcoma
Ireland (UCH Galway) - Angiosarcoma
Japan (Aichi Medical University) - Angiosarcoma of the right atrium
Japan (Asashi General Hospital) - Angiosarcoma
Japan (Lions Mansion Nijyo-Ekima) - Angiosarcoma, right atrium
Japan, Tokyo (Setagaya-Ku) - Fibrosarcoma
Japan (University of Yamanashi) - Angiosarcoma
Oman (Sultanate of Azaiba) - Angiosarcoma
Saudi Arabia (King Khalid University Hospital) - Angiosarcoma
Singapore (Freelance/Locum Practice) - Angiosarcoma
The Netherlands, Amstelveen - Angiosarcoma

Case 5 - Diagnosis:

Angiosarcoma, right atrium
 T-32000, M-91203

Case 5 - References:

Cardiac angiosarcoma. Amonkar GP; Deshpande JR. *Cardiovasc Pathol* 2006; Jan-Feb;15(1): p57-8.
 Primary cardiac angiosarcoma: case report and review of the literature. Kurian KC; Weisshaar D; Parekh H; Berry GJ; Reitz B. *Cardiovasc Pathol* 2006; Mar-Apr;15(2): p110-2.
 Clinicopathologic study of 24 patients with primary cardiac sarcomas: a 10-year single institution experience. Kim CH; Dancer JY; Coffey D; Zhai QJ; Reardon M; Ayala AG; Ro JY. *Hum Pathol* 2008; Jun;39(6): p933-8.
 Primary cardiac angiosarcoma of left atrium. Ho CK; Wang E; Au WK; Cheng LC. *J Card Surg* 2009; Sep-Oct;24(5): p524-5.
 Angiosarcoma of the right atrium presenting as collapse. van der Lee C; Klootwijk PJ; van Geuns RJ; Maat LP; den Bakker MA. *Int J Cardiol* 2009; Feb 6;132(1): p17-9.
 Angiosarcoma of the right atrium: a diagnostic dilemma. Keenan N; Davies S; Sheppard MN; Maceira A; Serino W; Mohiaddin RH. *Int J Cardiol* 2006; Nov 18;113(3): p425-6.
 Primary cardiac angiosarcoma with right coronary-to-right atrium fistula. Yildiz A; Yakut N; Kurtoglu T; Okcun B; Kupelioglu A. *Cardiovasc J Afr* 2008; Jan-Feb;19(1): p26-7.

Case No. 6, Accession No. 29754

April 2011

Alameda (Alameda County Medical Center) - Plexiform schwannoma
Fontana (Kaiser Foundation Hospital) - Schwannoma
Glendale - Plexiform schwannoma
Hayward (St. Rose Hospital) - Plexiform neurofibroma
Long Beach (Long Beach Veterans Hospital) - Ancient schwannoma
Oxnard (St. John's Regional Medical Center) - Neurofibroma (3)
Santa Barbara (Miramonte Laboratory) - Schwannoma
Woodland Hills (Kaiser Permanente) - Plexiform neurofibroma
Arkansas (Associated Pathologists Laboratory) - Schwannoma
Colorado (McKee Medical Center) - Plexiform neurofibroma
Florida (Gastroenterology Associates of Ocala) - Plexiform neurofibroma
Florida (Munroe Regional Medical Center) - Plexiform neurofibroma

Florida (Naples Pathology Associates) - Plexiform neurofibroma
Florida, Tallahassee - Schwannoma
Florida (The Pathology Group of NW Florida) - Plexiform schwannoma
Georgia, Atlanta - Schwannoma
Georgia (Emory University) - Neurofibroma, diffuse-type and plexiform schwannoma
Illinois, Chicago - Schwannoma
Illinois (Heartland Regional Medical Center) - Schwannoma
Maryland (University of Maryland) - Plexiform neurofibroma
Massachusetts (BWH-Pathology) - Schwannoma
Massachusetts, Peabody - Plexiform neurofibroma
Massachusetts (University of Massachusetts Medical Center) - Schwannoma
Minnesota (Fairview Ridges Hospital) - Plexiform schwannoma
Missouri (Missouri Delta Medical Center) - Schwannoma
Missouri (St. Luke's Hospital) - Schwannoma
Nebraska (Creighton University Medical Center) - Schwannoma
New Mexico (University of New Mexico) - Schwannoma
New York (Erie County Medical Center) - Plexiform schwannoma
New York (Staten Island University Hospital) - Schwannoma
New York (SUNY Downstate Medical Center Residents) - Plexiform schwannoma
New York (SUNY Stony Brook University Hospital) - Schwannoma
North Carolina (Wake Forest University School of Medicine Residents) - Plexiform neurofibroma
Ohio, Union Town - Malignant schwannoma
Ohio (University of Toledo Medical Center Residents) - Plexiform schwannoma, thigh
Pennsylvania (Conemaugh Valley Memorial Hospital) - Plexiform neurofibromatosis
Pennsylvania (Drexel University College of Medicine) - Angioleiomyoma
Pennsylvania (Magee Women's Hospital) - Plexiform schwannoma
Puerto Rico (University of Puerto Rico School of Medicine) - Plexiform schwannoma
Texas (Carl R. Darnall Army Medical Center) - Plexiform schwannoma
Texas, Crystal Beach - Neurofibroma plexiform
Texas, Lubbock - Neurilemoma
Utah (Huntsman Cancer Hospital) - Plexiform neurofibroma
Virginia, Falls Church - Plexiform schwannoma
Washington (Seattle VAMC) - Plexiform schwannoma in neurofibromatosis
Wisconsin (Medical Assessment and Consultation, S.C.) - Schwannoma (neurilemoma)
West Virginia (Greenbrier Valley Medical Center) - Malignant peripheral nerve sheath tumor
Australia (Royal Hobart Hospital) - Plexiform neurofibroma
Australia (Royal Prince Alfred Hospital) - Plexiform schwannoma
Australia (St. Vincent's Hospital, Sydney) - Schwannoma
Australia (Sullivan Nicolaides Pathology) - Plexiform peripheral nerve sheath tumor
Canada (Pasqua Hospital) - Plexiform neurofibroma with cellular areas
Canada (University of Sherbrooke) - Schwannoma
England (John Radcliffe Hospital) - Ancient schwannoma
Ireland (Kerry General Hospital) - Ancient schwannoma
Ireland (UCH Galway) - Schwannoma
Japan (Aichi Medical University) - Schwannoma
Japan (Asahi General Hospital) - Schwannoma
Japan (Lions Mansion Nijyo-Ekimae) - Neurofibroma with plexiform schwannoma-like feature, right thigh
Japan, Tokyo (Setagaya-Ku) - Schwannoma
Japan (University of Yamanashi) - Schwannoma, plexiform type
Oman (Sultanate of Azaiba) - Schwannoma
Saudi Arabia (King Khalid University Hospital) - Plexiform neurofibroma/schwannoma
Singapore (Freelance/Locum Practice) - Plexiform schwannoma
The Netherlands, Amstelveen - Plexiform neurofibroma

Case 6 - Diagnosis:

Plexiform schwannoma, thigh
 T-Y9100, M-95600

Case 6 - References:

Plexiform schwannoma: a clinicopathologic overview with emphasis on the head and neck region. Berg JC; Scheithauer BW; Spinner RJ; Allen CM; Koutlas IG. *Hum Pathol* 2008; May;39(5): p633-40.

Hybrid schwannoma/perineurioma: clinicopathologic analysis of 42 distinctive benign nerve sheath tumors. Hornick JL; Bundock EA; Fletcher CD. *Am J Surg Pathol* 2009; Oct;33(10): p1554-61.

Multinodular/plexiform (multifascicular) schwannomas of major peripheral nerves: an underrecognized part of the spectrum of schwannomas. Hebert-Blouin MN; Amrami KK; Scheithauer BW; Spinner RJ. *J Neurosurg* 2010; Feb;112(2): p372-82.

Neurofibromatosis type 2 with multiple plexiform schwannomas. Lim HS; Jung J; Chung KY. *Int J Dermatol* 2004; May;43(5): p336-40.

Deep-seated plexiform schwannoma: a pathologic study of 16 cases and comparative analysis with the superficial variety. Agaram NP; Prakash S; Antonescu CR. *Am J Surg Pathol* 2005; Aug;29(8): p1042-8.

Case No. 7, Accession No. 29701

April 2011

Alameda (Alameda County Medical Center) - Myxoid liposarcoma

Fontana (Kaiser Foundation Hospital) - Myxoid liposarcoma

Glendale - Myxoid liposarcoma

Hayward (St. Rose Hospital) - Myxoid liposarcoma

Long Beach (Long Beach Veterans Hospital) - Well-differentiated liposarcoma, myxoid type

Oxnard (St. John's Regional Medical Center) - Myxolipoma (1); Myxoid liposarcoma (2)

Santa Barbara (Miramonte Laboratory) - Myxoid liposarcoma

Woodland Hills (Kaiser Permanente) - Myxoid liposarcoma

Arkansas (Associated Pathologists Laboratory) - Myxoid well-differentiated liposarcoma

Colorado (McKee Medical Center) - Well-differentiated liposarcoma

Florida (Gastroenterology Associates of Ocala) - Chondroid lipoma

Florida (Munroe Regional Medical Center) - Well-differentiated liposarcoma

Florida (Naples Pathology Associates) - Myxoid liposarcoma

Florida, Tallahassee - Myxoid liposarcoma

Florida (The Pathology Group of NW Florida) - Myxoid liposarcoma

Georgia, Atlanta - Myxoid liposarcoma

Georgia (Emory University) - Myxoid liposarcoma

Illinois, Chicago - Myxoid liposarcoma

Illinois (Heartland Regional Medical Center) - Myxoid liposarcoma

Maryland (University of Maryland) - Myxoid liposarcoma

Massachusetts (BWH-Pathology) - Well-differentiated myxoid liposarcoma

Massachusetts, Peabody - Granulomatous to filamentous material

Massachusetts (University of Massachusetts Medical Center) - Myxoid liposarcoma

Minnesota (Fairview Ridges Hospital) - Myxoid liposarcoma

Missouri (Missouri Delta Medical Center) - Myxoid liposarcoma

Missouri (St. Luke's Hospital) - Myxoid liposarcoma

Nebraska (Creighton University Medical Center) - Myxoid liposarcoma

New Mexico (University of New Mexico) - Myxoid liposarcoma

New York (Erie County Medical Center) - Myxoid liposarcoma

New York (Staten Island University Hospital) - Chondroid lipoma

New York (SUNY Downstate Medical Center Residents) - Myxoid liposarcoma

New York (SUNY Stony Brook University Hospital) - Myxoid liposarcoma

North Carolina (Wake Forest University School of Medicine Residents) - Myxoid liposarcoma

Ohio, Union Town - Myxoid liposarcoma

Ohio (University of Toledo Medical Center Residents) - Myxoid liposarcoma, thigh

Pennsylvania (Conemaugh Valley Memorial Hospital) - Chondrosarcoma

Pennsylvania (Drexel University College of Medicine) - Myxolipoma

Pennsylvania (Magee Women's Hospital) - Myxoid liposarcoma

Puerto Rico (University of Puerto Rico School of Medicine) - Myxoid lipoma

Texas (Carl R. Darnall Army Medical Center) - Myxoid liposarcoma
Texas, Crystal Beach - Spindle cell lipoma
Texas, Lubbock - Myxoid liposarcoma
Utah (Huntsman Cancer Hospital) - Chondroid lipoma
Virginia, Falls Church - Well-differentiated myxoid liposarcoma
Washington (Seattle VAMC) - Low grade atopic neoplasm; myxoid liposarcoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Myxoid liposarcoma
West Virginia (Greenbrier Valley Medical Center) - Chondroid lipoma
Australia (Royal Hobart Hospital) - Myxoid liposarcoma
Australia (Royal Prince Alfred Hospital) - Myxoid liposarcoma
Australia (St. Vincent's Hospital, Sydney) - Myxoid liposarcoma
Australia (Sullivan Nicolaides Pathology) - Myxoid liposarcoma
Canada (Pasqua Hospital) - Myxoid liposarcoma
Canada (University of Sherbrooke) - Myxoid liposarcoma
England (John Radcliffe Hospital) - Myxoid liposarcoma
Ireland (Kerry General Hospital) - Myxoid liposarcoma
Ireland (UCH Galway) - Myxoid liposarcoma
Japan (Aichi Medical University) - Myxoid/round cell liposarcoma
Japan (Asashi General Hospital) - Myxoid liposarcoma
Japan (Lions Mansion Nijyo-Ekimae) - Myxoid liposarcoma, left thigh
Japan, Tokyo (Setagaya-Ku) - Lipoma
Japan (University of Yamanashi) - Liposarcoma, myxoid type
Oman (Sultanate of Azaiba) - Myxoid liposarcoma
Saudi Arabia (King Khalid University Hospital) - Myxoid liposarcoma
Singapore (Freelance/Locum Practice) - Myxoid liposarcoma
The Netherlands, Amstelveen - Myxoid liposarcoma

Case 7 - Diagnosis:

Myxoid liposarcoma, thigh
 T-Y9100, M-88523

Case 7 - References:

Myxoid and round cell liposarcoma: a spectrum of myxoid adipocytic neoplasia. Orvieto E; Furlanetto A; Laurino L; Dei Tos AP. *Semin Diagn Pathol* 2001; Nov;18(4): p267-73.
 Myxoid liposarcoma. Pantanowitz L; Otis CN. *Diagn Cytopathol* 2007; May;35(5): p283-4.
 Myxoid/round cell and pleomorphic liposarcomas: prognostic factors and survival in a series of patients treated at a single institution. Fiore M; Grosso F; Lo Vullo S, et al. *Cancer* 2007; Jun 15;109(12): p2522-31.
 Clinicopathologic prognostic factors in myxoid liposarcoma: a retrospective study of 49 patients with long-term follow-up. ten Heuvel SE; Hoekstra HJ; van Ginkel RJ; Bastiaannet E; Suurmeijer AJ. *Ann Surg Oncol* 2007; Jan;14(1): p222-9.

Case No. 8, Accession No. 29903

April 2011

Alameda (Alameda County Medical Center) - Pleomorphic liposarcoma
Fontana (Kaiser Foundation Hospital) - Pleomorphic liposarcoma
Glendale - Dedifferentiated liposarcoma
Hayward (St. Rose Hospital) - Liposarcoma, round cell
Long Beach (Long Beach Veterans Hospital) - Dedifferentiated liposarcoma
Oxnard (St. John's Regional Medical Center) - Liposarcoma (3)
Santa Barbara (Miramonte Laboratory) - Rhabdomyosarcoma
Woodland Hills (Kaiser Permanente) - Pleomorphic liposarcoma
Arkansas (Associated Pathologists Laboratory) - Pleomorphic liposarcoma
Colorado (McKee Medical Center) - Dedifferentiated liposarcoma
Florida (Gastroenterology Associates of Ocala) - MFH (storiform/pleomorphic)
Florida (Munroe Regional Medical Center) - Sarcoma

Florida (Naples Pathology Associates) - Round cell liposarcoma
Florida, Tallahassee - Pleomorphic liposarcoma
Florida (The Pathology Group of NW Florida) - Dedifferentiated liposarcoma
Georgia, Atlanta - Pleomorphic sarcoma
Georgia (Emory University) - Pleomorphic liposarcoma
Illinois, Chicago - Dedifferentiated liposarcoma
Illinois (Heartland Regional Medical Center) - Liposarcoma
Maryland (University of Maryland) - Epithelioid hemangioendothelioma
Massachusetts (BWH-Pathology) - Pleomorphic liposarcoma
Massachusetts, Peabody - Inflammatory granulation tissue, thigh
Massachusetts (University of Massachusetts Medical Center) - High grade sarcoma, suggestive of liposarcoma
Minnesota (Fairview Ridges Hospital) - Pleomorphic liposarcoma
Missouri (Missouri Delta Medical Center) - Pleomorphic liposarcoma
Missouri (St. Luke's Hospital) - Spindle cell liposarcoma
Nebraska (Creighton University Medical Center) - Pleomorphic liposarcoma
New Mexico (University of New Mexico) - Round cell liposarcoma
New York (Erie County Medical Center) - High grade sarcoma (favor dedifferentiated liposarcoma)
New York (Staten Island University Hospital) - Pleomorphic liposarcoma
New York (SUNY Downstate Medical Center Residents) - Pleomorphic liposarcoma
New York (SUNY Stony Brook University Hospital) - Pleomorphic liposarcoma
North Carolina (Wake Forest University School of Medicine Residents) - Pleomorphic liposarcoma
Ohio, Union Town - Pleomorphic liposarcoma
Ohio (University of Toledo Medical Center Residents) - Pleomorphic liposarcoma, thigh
Pennsylvania (Conemaugh Valley Memorial Hospital) - Pleomorphic liposarcoma
Pennsylvania (Drexel University College of Medicine) - Pleomorphic liposarcoma
Pennsylvania (Magee Women's Hospital) - Liposarcoma, epithelioid variant
Puerto Rico (University of Puerto Rico School of Medicine) - Liposarcoma
Texas (Carl R. Darnall Army Medical Center) - Dedifferentiated liposarcoma
Texas, Crystal Beach - Liposarcoma, pleomorphic
Texas, Lubbock - Pleomorphic liposarcoma
Utah (Huntsman Cancer Hospital) - Liposarcoma (round cell with focal pleomorphism)
Virginia, Falls Church - Pleomorphic liposarcoma
Washington (Seattle VAMC) - High grade adipose neoplasm; pleomorphic round cell liposarcoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Liposarcoma, favor pleomorphic type
West Virginia (Greenbrier Valley Medical Center) - Pleomorphic liposarcoma
Australia (Royal Hobart Hospital) - Liposarcoma with de-differentiated and pleomorphic areas
Australia (Royal Prince Alfred Hospital) - Dedifferentiated liposarcoma/pleomorphic sarcoma
Australia (St. Vincent's Hospital, Sydney) - Pleomorphic liposarcoma
Australia (Sullivan Nicolaides Pathology) - Pleomorphic liposarcoma
Canada (Pasqua Hospital) - Pleomorphic liposarcoma
Canada (University of Sherbrooke) - Round cell liposarcoma
England (John Radcliffe Hospital) - Pleomorphic liposarcoma
Ireland (Kerry General Hospital) - Pleomorphic liposarcoma
Ireland (UCH Galway) - Pleomorphic liposarcoma
Japan (Aichi Medical University) - Pleomorphic liposarcoma
Japan (Asahi General Hospital) - Myxoid liposarcoma
Japan (Lions Mansion Nijyo-Ekima) - Pleomorphic liposarcoma
Japan, Tokyo (Setagaya-Ku) - Liposarcoma, left thigh
Japan (University of Yamanashi) - Liposarcoma, pleomorphic type
Oman (Sultanate of Azaiba) - Pleomorphic liposarcoma
Saudi Arabia (King Khalid University Hospital) - Pleomorphic liposarcoma
Singapore (Freelance/Locum Practice) - Pleomorphic liposarcoma
The Netherlands, Amstelveen - Dedifferentiated, liposarcoma

Case 8 - Diagnosis:

Mixed liposarcoma with pleomorphic and myxoid/round cell subtypes
 T-Y4600, M-88523

Director's note: Rare areas also showed WD liposarcoma, justifying a diagnosis of “dedifferentiated liposarcoma”.
(drc)

Case 8 - References:

Retroperitoneal mixed-type liposarcoma showing features of four different subtypes. Hosaka A; Masaki Y; Yamasaki K; Aoki F; Sugizaki K; Ito E. *Am Surg* 2008; Dec;74(12): p1202-5.

Gene expression in mixed type liposarcoma. CM - Comment In: Ref Source:Pathology. 2006; Apr; 38(2):101-2/PMID:16581648. Kim JI; Choi KU; Lee IS; Moon TY; Lee CH; Kim HW; Kim JY; Park DY; Sol MY. *Pathology* 2006; Apr;38(2): p114-9.

Liposarcomas with mixed well-differentiated and pleomorphic features: a clinicopathologic study of 12 cases. Boland JM; Weiss SW; Oliveira AM; Erickson-Johnson ML; Folpe AL. *Am J Surg Pathol* 2010; Jun;34(6): p837-43.

Fine needle aspiration cytology of a dedifferentiated liposarcoma: report of a case with histologic and immunohistochemical follow-up. Ylagan LR; Bhalla S. *Acta Cytol* 2001; Jul-Aug;45(4): p641-4.

Case No. 9, Accession No. 31066

April 2011

Alameda (Alameda County Medical Center) - Well-differentiated liposarcoma

Fontana (Kaiser Foundation Hospital) - Atypical lipomatous tumor

Glendale - Atypical lipomatous tumor/well-differentiated liposarcoma, sclerosing variant

Hayward (St. Rose Hospital) - Atypical lipoma

Long Beach (Long Beach Veterans Hospital) - Well-differentiated liposarcoma

Oxnard (St. John's Regional Medical Center) - Atypical lipoma (3)

Santa Barbara (Miramonte Laboratory) - Atypical lipoma

Woodland Hills (Kaiser Permanente) - Well-differentiated liposarcoma

Arkansas (Associated Pathologists Laboratory) - Atypical lipomatous tumor

Colorado (McKee Medical Center) - Atypical lipomatous tumor

Florida (Gastroenterology Associates of Ocala) - Liposarcoma (“lipoma-like”)

Florida (Munroe Regional Medical Center) - Atypical lipoma

Florida (Naples Pathology Associates) - Atypical lipomatous tumor

Florida, Tallahassee - Lipoma

Florida (The Pathology Group of NW Florida) - Lipoma

Georgia, Atlanta - Well-differentiated liposarcoma

Georgia (Emory University) - Pleomorphic lipoma (FISH for MDM2, rule out ALT/WDL)

Illinois, Chicago - Well-differentiated liposarcoma

Illinois (Heartland Regional Medical Center) - Atypical lipomatous tumor

Maryland (University of Maryland) - Atypical lipomatous tumor/well-differentiated liposarcoma

Massachusetts (BWH-Pathology) - Atypical lipomatous tumor/well-differentiated liposarcoma

Massachusetts, Peabody - Lipoma

Massachusetts (University of Massachusetts Medical Center) - Atypical lipomatous tumor (well-differentiated liposarcoma)

Minnesota (Fairview Ridges Hospital) - Well-differentiated liposarcoma

Missouri (Missouri Delta Medical Center) - Pleomorphic lipoma

Missouri (St. Luke's Hospital) - Atypical lipomatous tumor

Nebraska (Creighton University Medical Center) - Atypical lipomatous tumor

New Mexico (University of New Mexico) - Atypical lipomatous tumor

New York (Erie County Medical Center) - Atypical lipomatous tumor

New York (Staten Island University Hospital) - Pleomorphic lipoma

New York (SUNY Downstate Medical Center Residents) - Atypical lipomatous tumor/well-differentiate liposarcoma

New York (SUNY Stony Brook University Hospital) - Atypical lipomatous tumor/well-differentiated liposarcoma

North Carolina (Wake Forest University School of Medicine Residents) - Well-differentiated liposarcoma

Ohio, Union Town - Well-differentiated liposarcoma/atypical lipoma

Ohio (University of Toledo Medical Center Residents) - Atypical lipomatous tumor, thigh

Pennsylvania (Conemaugh Valley Memorial Hospital) - Well-differentiated liposarcoma

Pennsylvania (Drexel University College of Medicine) - Well-differentiated liposarcoma

Pennsylvania (Magee Women's Hospital) - Atypical lipomatous tumor
Puerto Rico (University of Puerto Rico School of Medicine) - Pleomorphic lipoma
Texas (Carl R. Darnall Army Medical Center) - Atypical lipomatous tumor/well-differentiated liposarcoma
Texas, Crystal Beach - Lipoma
Texas, Lubbock - Well-differentiated liposarcoma
Utah (Huntsman Cancer Hospital) - Well-differentiated liposarcoma/atypical lipomatous tumor
Virginia, Falls Church - Atypical lipomatous tumor
Washington (Seattle VAMC) - Low grade fibrocytic neoplasm in fat/well-differentiated liposarcoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Low grade (lipoma-like) liposarcoma
West Virginia (Greenbrier Valley Medical Center) - Atypical lipoma
Australia (Royal Hobart Hospital) - Spindle cell/pleomorphic lipoma (assuming the lesion is subcutaneous in location)
Australia (Royal Prince Alfred Hospital) - Atypical lipomatous tumor/well-differentiated liposarcoma
Australia (St. Vincent's Hospital, Sydney) - Well-differentiated liposarcoma
Australia (Sullivan Nicolaides Pathology) - Atypical lipomatous tumor/well-differentiated liposarcoma
Canada (Pasqua Hospital) - Well-differentiated liposarcoma
Canada (University of Sherbrooke) - Well-differentiated liposarcoma
England (John Radcliffe Hospital) - Atypical lipomatous tumor
Ireland (Kerry General Hospital) - Well-differentiated sclerosing liposarcoma
Ireland (UCH Galway) - Well-differentiated liposarcoma/atypical lipomatous tumor
Japan (Aichi Medical University) - Well-differentiated liposarcoma
Japan (Asahi General Hospital) - Well-differentiated liposarcoma
Japan (Lions Mansion Nijyo-Ekimae) - Atypical lipomatous tumor/well-differentiated liposarcoma, left thigh
Japan, Tokyo (Setagaya-Ku) - Atypical lipomatous tumor
Japan (University of Yamanashi) - Well-differentiated liposarcoma
Oman (Sultanate of Azaiba) - Atypical lipomatous tumor
Saudi Arabia (King Khalid University Hospital) - Well-differentiated liposarcoma
Singapore (Freelance/Locum Practice) - Atypical lipomatous tumor
The Netherlands, Amstelveen - Well-differentiated liposarcoma

Case 9 - Diagnosis:

Atypical lipomatous neoplasm ("atypical lipoma"), thigh
T-Y9100, M-88500

Director's note: Tumor was 4.5 cm, superficial, well-circumscribed and located in the extremity hence the above classification. Some institutions, however, would call it "WD lipoma-like LS". (drc)

Case 9 - References:

Value of cytological imprints in the diagnosis of atypical lipomatous tumor. Fernandez-Flores A; Juanes F. *Diagn Cytopathol* 2005; Jan;32(1): p51-2.
 Atypical lipomatous tumor/well-differentiated liposarcoma of the extremity and trunk wall: importance of histological subtype with treatment recommendations. Kooby DA; Antonescu CR; Brennan MF; Singer S. *Ann Surg Oncol* 2004; Jan;11(1): p78-84.
 Deep-seated ordinary and atypical lipomas: histopathology, cytogenetics, clinical features, and outcome in 215 tumours of the extremity and trunk wall. Billing V; Mertens F; Domanski HA; Rydholm A. *J Bone Joint Surg Br* 2008; Jul;90(7): p929-33.
 Molecular testing for lipomatous tumors: critical analysis and test recommendations based on the analysis of 405 extremity-based tumors. Zhang H; Erickson-Johnson M; Wang X; Oliveira JL; Nascimento AG; Sim FH; Wenger DE; Zamolyi RQ; Pannain VL; Oliveira AM. *Am J Surg Pathol* 2010; Sep;34(9): p1304-11.
 Lipoma and atypical lipomatous tumor within the same neoplasia: Evidence for a continuous transition. Kuhn C; Mentzel T; Lehnhardt M; Homann HH; Sciort R; Debiec-Rychter M. *Pathologe* 2010; Mar;31(2): p129-34.

Case No. 10, Accession No. 30673

April 2011

Alameda (Alameda County Medical Center) - Leiomyosarcoma
Fontana (Kaiser Foundation Hospital) - Leiomyosarcoma

Glendale - Leiomyosarcoma
Hayward (St. Rose Hospital) - Leiomyosarcoma
Long Beach (Long Beach Veterans Hospital) - Leiomyosarcoma
Oxnard (St. John's Regional Medical Center) - Sarcoma (MFH), synovial (3)
Santa Barbara (Miramonte Laboratory) - Leiomyosarcoma
Woodland Hills (Kaiser Permanente) - High grade leiomyosarcoma
Arkansas (Associated Pathologists Laboratory) - Leiomyosarcoma of deep soft tissue
Colorado (McKee Medical Center) - Leiomyosarcoma
Florida (Gastroenterology Associates of Ocala) - Alveolar soft part sarcoma
Florida (Munroe Regional Medical Center) - Leiomyosarcoma
Florida (Naples Pathology Associates) - Leiomyosarcoma, high grade
Florida, Tallahassee - Pleomorphic rhabdomyosarcoma
Florida (The Pathology Group of NW Florida) - Pleomorphic rhabdosarcoma
Georgia, Atlanta - Leiomyosarcoma
Georgia (Emory University) - Leiomyosarcoma, high grade
Illinois, Chicago - Rhabdomyosarcoma
Illinois (Heartland Regional Medical Center) - Leiomyosarcoma
Maryland (University of Maryland) - Leiomyosarcoma
Massachusetts (BWH-Pathology) - Epithelioid leiomyosarcoma
Massachusetts, Peabody - Sarcoma, popliteal fossa
Massachusetts (University of Massachusetts Medical Center) - Leiomyosarcoma
Minnesota (Fairview Ridges Hospital) - High grade leiomyosarcoma
Missouri (Missouri Delta Medical Center) - High grade sarcoma (NOS)
Missouri (St. Luke's Hospital) - Leiomyosarcoma, high grade
Nebraska (Creighton University Medical Center) - Leiomyosarcoma
New Mexico (University of New Mexico) - Leiomyosarcoma
New York (Erie County Medical Center) - Leiomyosarcoma
New York (Staten Island University Hospital) - Leiomyosarcoma
New York (SUNY Downstate Medical Center Residents) - Leiomyosarcoma
New York (SUNY Stony Brook University Hospital) - Leiomyosarcoma vs. rhabdomyosarcoma
North Carolina (Wake Forest University School of Medicine Residents) - Pleomorphic rhabdomyosarcoma
Ohio, Union Town - Leiomyosarcoma
Ohio (University of Toledo Medical Center Residents) - Leiomyosarcoma, leg
Pennsylvania (Conemaugh Valley Memorial Hospital) - Leiomyosarcoma
Pennsylvania (Drexel University College of Medicine) - Leiomyosarcoma
Pennsylvania (Magee Women's Hospital) - Leiomyosarcoma
Puerto Rico (University of Puerto Rico School of Medicine) - Rhabdomyosarcoma
Texas (Carl R. Darnall Army Medical Center) - Leiomyosarcoma
Texas, Crystal Beach - Leiomyosarcoma
Texas, Lubbock - Leiomyosarcoma
Utah (Huntsman Cancer Hospital) - Leiomyosarcoma
Virginia, Falls Church - Leiomyosarcoma
Washington (Seattle VAMC) - High grade sarcoma, muscle, prob leiomyosarcoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Leiomyosarcoma
West Virginia (Greenbrier Valley Medical Center) - Pleomorphic rhabdomyosarcoma
Australia (Royal Hobart Hospital) - Leiomyosarcoma
Australia (Royal Prince Alfred Hospital) - Leiomyosarcoma
Australia (St. Vincent's Hospital, Sydney) - Leiomyosarcoma
Australia (Sullivan Nicolaides Pathology) - Leiomyosarcoma
Canada (Pasqua Hospital) - Leiomyosarcoma
Canada (University of Sherbrooke) - Leiomyosarcoma
England (John Radcliffe Hospital) - Leiomyosarcoma
Ireland (Kerry General Hospital) - Leiomyosarcoma
Ireland (UCH Galway) - High grade leiomyosarcoma
Japan (Aichi Medical University) - Leiomyosarcoma
Japan (Asashi General Hospital) - Leiomyosarcoma
Japan (Lions Mansion Nijyo-Ekimae) - Leiomyosarcoma, left leg

Japan, Tokyo (Setagaya-Ku) - Rhabdomyosarcoma
Japan (University of Yamanashi) - Leiomyosarcoma
Oman (Sultanate of Azaiba) - Leiomyosarcoma
Saudi Arabia (King Khalid University Hospital) - Leiomyosarcoma
Singapore (Freelance/Locum Practice) - Leiomyosarcoma
The Netherlands, Amstelveen - Leiomyosarcoma

Case 10 - Diagnosis:

Leiomyosarcoma, leg
T-Y9400, M-88903

Case 10 - References:

Expression profiling in soft tissue sarcomas with emphasis on synovial sarcoma, gastrointestinal stromal tumor, and leiomyosarcoma. West RB. *Adv Anat Pathol* 2010; Sep;17(5): p366-73.
Pleomorphic and dedifferentiated leiomyosarcoma: clinicopathologic and immunohistochemical study of 41 cases. Nicolas MM; Tamboli P; Gomez JA; Czerniak BA. *Hum Pathol* 2010; May;41(5): p663-71.
Osteoclast-like cells in soft tissue leiomyosarcomas. Gibbons CL; Sun SG; Vlychou M; Kliskey K; Lau YS; Sabokbar A; Athanasou NA. *Virchows Arch* 2010; Mar;456(3): p317-23.
Superficial leiomyosarcoma: a clinicopathologic review and update. Fauth CT; Bruecks AK; Temple W; Arlette JP; Di Francesco LM. *J Cutan Pathol* 2010; Feb;37(2): p269-76.