



CALIFORNIA
TUMOR TISSUE REGISTRY

SOFT TISSUE PATHOLOGY

Minutes – Subscription A

October, 2008



SUGGESTED READING (General Topics from Recent Literature):

- Dendritic Cell Neoplasms. An Overview. Kairouz S, Hashash J, Kabbara W, et al. *Am J Hematol* 2007; 82(10):924-928.
- Elastofibroma. A Subscapular Mass. Majeski J. *Am J Surg* 2008; 196(1):93-94.
- Wagner-Meissner Neurilemmoma of the Right Cheek. Wu AJ, Jarzembowski J, Morag Y, et al. *Ann Diagn Pathol* 2008; 12(3):204-207.
- Application of Immunohistochemistry of Soft Tissue Neoplasm. Heim-Hall J and Yohe SL. *Arch Pathol Lab Med* 2008; 132(3):476-489.
- Follicular Dendritic Cell Sarcoma. A Rare Tumor Presenting as an Abdominal Mass. Low SE, Menasce LP and Manson CM. *Int J Surg Pathol* 2007; 15(3):315-317.
- Genetics for the Diagnosis and Treatment of Mesenchymal Tumors. Lasota J and Fanburg-Smith JC. *Semin Musculoskelet Radiol* 2007; 11(3):215-230.
- Soft Tissue Tumors of the Prostate. A Review. Wagner DG, Yao JL, di Sant'Agnese PA, et al. *Anal Quant Cytol Histol* 2007; 29(6): 341-350
- Hibernoma. A Benign Lipomatous Tumor Mimicking Liposarcoma. Yalniz E, Alicioglu B, and Oz Puyan F. *J Buon* 2008; 13(1):127-129.

California Tumor Tissue Registry
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FILE DIAGNOSES

CTTR Subscription A

October 2008

Case 1:

Elastofibroma, left neck and scapula
T-11280, M-88200

Case 2:

Myxoid liposarcoma, right chest
T-Y2100, M-88513

Case 3:

Intra-osseous hemangioma of bone, skull
T-X2302, M-91200

Case 4:

Mesenteric angioma/lymphangioma, intra-abdominal
T-64000, M-91700

Case 5:

Epithelioid hemangioendothelioma, chest wall
T-Y2100, M-91301

Case 6:

Kaposi sarcoma, knee
T-Y9200, M-91403

Case 7:

Angiosarcoma, breast
T-04000, M-91203

Case 8:

Embryonal rhabdomyosarcoma, testicle
T-78000, M-89103

Case 9:

Undifferentiated pleomorphic sarcoma(MFH phenotype), lower extremity
T-Y1800, M-88023

Case 10:

Undifferentiated pleomorphic sarcoma (MFH phenotype), thigh
T-Y9100, M-88023

Fontana (Kaiser Foundation Hospital) - Elastofibroma
Glendale - Elastofibroma
Hayward-Fremont (St. Rose Hospital) - Elastofibroma, rule out nuchal fibroma
Long Beach (Long Beach Veterans Hospital) - Elastofibroma
Oakland - Nuchal fibroma
Oakland (Alameda County Medical Center) - Elastofibroma
Oxnard (St. John's Regional Medical Center) - Elastofibroma
Pleasant Hill - Elastofibroma
San Diego (Naval Medical Center) - Elastofibroma
San Diego (Scripps Clinic) - Elastofibroma
Santa Barbara - Elastofibroma
Sonoma (Sonoma Valley Hospital) - Elastofibroma
Woodland Hills - Elastofibroma
Colorado, Fort Collins - Elastofibroma
Colorado (University of Colorado) - Elastofibroma
Florida (Naples Pathology Associates) - Elastofibroma
Florida (PGSA) - Elastofibroma
Florida (Tallahassee Pathology Associates) - Elastofibroma
Georgia, Decatur - Elastofibroma
Illinois, Burr Ridge - Elastofibroma
Illinois, Chicago - Elastofibroma
Illinois (Heartland Regional Medical Center) - Elastofibroma
Illinois (Loyola University Medical Center) - Elastofibroma, left neck and scapular (2)
Illinois, Oak Brook - Elastofibroma
Illinois (Office of the Medical Examiner Cook County) - Elastofibroma
Kansas (Cytocheck Laboratory) - Fibroma of tendon sheath (1); Fibromatosis (1)
Louisiana (LSU-HSC) - Elastofibroma
Louisiana (Pathology Group of Louisiana) - Elastofibroma
Massachusetts (Massachusetts General Hospital) - Elastofibroma
Massachusetts (Tufts New England Medical Center) - Elastofibroma
Massachusetts (University of Massachusetts Medical Center) - Elastofibroma
Michigan (Oakwood Hospital) - Elastofibroma
Missouri (Missouri Delta Medical Center) - Benign fibroma
Minnesota (University of Minnesota) - Elastofibroma
New Mexico (New Mexico Veterans Hospital) - Elastofibroma
New York (Albany Medical Center) - Elastofibroma (2)
New York, Milwood - Fibroma
New York (Roosevelt Hospital) - Elastofibroma (2)
New York (St. Lukes Roosevelt Hospital) - Elastofibroma
New York (Stony Brook University) - Elastofibroma
New York (SUNY Downstate Medical Center) - Elastofibroma
New York (Westchester Medical Center) - Elastofibroma
North Carolina (North Carolina Baptist) - Elastofibroma
Oklahoma (St. Francis Hospital) - Elastofibroma dorsi
Pennsylvania (Conemaugh Memorial Medical Center) - Elastofibroma
Pennsylvania (Drexel Pathology Residents) - Elastofibroma
Pennsylvania (Lehigh Valley Hospital) - Elastofibroma
Pennsylvania (Magee Women's Hospital) - Elastofibroma
Puerto Rico (Puerto Rico University) - Elastofibroma
Texas, Houston - Elastofibroma
Texas, Lubbock - Elastofibroma
Texas (Scott & White Hospital) - Elastofibroma
Texas, Shavanno Park - Elastofibroma
Washington (Seattle VA Medical Center) - Fibromatosis

West Virginia (Greenbrier Valley Medical Center) - Nuchal fibroma
Wisconsin, Madison - Desmoplastic fibroblastoma (collagenous fibroma)
Australia (Royal Hobart Hospital) - Elastofibroma
Brazil (Federal University of Sao Paulo) - Nuchal-type fibroma
Canada (Pasqua Hospital) - Elastofibroma
Canada (University of Sherbrooke) - Elastofibroma
Ireland (Beaumont Hospital Residents) - Elastofibroma
Ireland (Kerry General Hospital) - Elastofibroma
Japan (Asashi General Hospital) - Elastofibroma
Japan (Kyoto University Hospital) - Elastofibroma dorsi
The Netherlands, Amstelveen - Elastofibroma
United Kingdom (John Radcliffe Hospital) - Elastofibroma

Case 1 - Diagnosis:

Elastofibroma, left neck and scapula
 T-11280, M-88200

Case 1 - References:

Gun BD, Bahadir B, Behzatoglu K, et al. Elastofibroma. A Clinicopathologic and Immunohistochemical Study of Seven Cases and Literature Review. *APMIS* 2007; 115(2):115-119.
 Erkilic S, Kocer NE and Sivrikoz C. Subscapular Elastofibroma Intermingled with Adipose Tissue. Variant Type of Elastofibroma or Lipoma? *Ann Diagn Pathol* 2005; 9(6):327-329.
 Hobbs CM, Burch DM and Sobin LH. Elastosis and Elastofibromatous Change in the Gastrointestinal Tract. A Clinicopathologic Study of 13 Cases and a Review of the Literature. *Am J Clin Pathol* 2004; 122(2):232-237.
 Hayes AJ, Alexander N, Clark MA, et al. Elastofibroma. A Rare Soft Tissue Tumour with a Pathognomonic Anatomical Location and Clinical Symptom. *Eur J Surg Oncol* 2004; 30(4):450-453.
 Domanski HA, Carlen B, Sloth M, et al. Elastofibroma Dorsi Has Distinct Cytomorphologic Features, Making Diagnostic Surgical Biopsy Unnecessary. Cytomorphologic Study with Clinical, Radiologic, and Electron Microscopic Correlations. *Diagn Cytopathol* 2003; 29(6):327-333.

Case No. 2, Accession No. 30129

October 2008 A

Arcadia (ABC Lab) - Atypical fibromyxoma
Fontana (Kaiser Foundation Hospital) - Myxoid liposarcoma
Glendale - Myxoid liposarcoma
Hayward-Fremont (St. Rose Hospital) - Myxoid liposarcoma
Long Beach (Long Beach Veterans Hospital) - Liposarcoma, low grade
Oakland - Myxoid liposarcoma
Oakland (Alameda County Medical Center) - Myxoid liposarcoma
Oxnard (St. John's Regional Medical Center) - Myxoid liposarcoma
Pleasant Hill - Myxofibrosarcoma
San Diego (Naval Medical Center) - Myxoid liposarcoma
San Diego (Scripps Clinic) - Myxoid liposarcoma
Santa Barbara - Myxoid liposarcoma
Sonoma (Sonoma Valley Hospital) - Myxoid neurofibroma
Woodland Hills - Myxoid liposarcoma
Colorado, Fort Collins - Myxoid liposarcoma
Colorado (University of Colorado) - Spindle cell/pleomorphic lipoma
Florida (Naples Pathology Associates) - Myxoid liposarcoma
Florida (PGSA) - Myxoid liposarcoma
Florida (Tallahassee Pathology Associates) - Myxoid liposarcoma
Georgia, Decatur - Myxoid liposarcoma
Illinois, Burr Ridge - Well differentiated liposarcoma
Illinois, Chicago - Myxoid liposarcoma
Illinois (Heartland Regional Medical Center) - Myxoid liposarcoma

Illinois (Loyola University Medical Center) - Myxoid liposarcoma, right chest (2)
Illinois, Oak Brook - Myxoid liposarcoma
Illinois (Office of the Medical Examiner Cook County) - Myxoid liposarcoma
Kansas (Cytocheck Laboratory) - Myxoid neurofibroma (2)
Louisiana (LSU-HSC) - Unclassified angiomyxolipomatous lesion
Louisiana (Pathology Group of Louisiana) - Myxoid liposarcoma
Massachusetts (Massachusetts General Hospital) - Myxoid liposarcoma
Massachusetts (Tufts New England Medical Center) - Myxoid liposarcoma
Massachusetts (University of Massachusetts Medical Center) - Myxoid liposarcoma
Michigan (Oakwood Hospital) - Myxoid liposarcoma
Minnesota (University of Minnesota) - Myxoid liposarcoma
New Mexico (New Mexico Veterans Hospital) - Myxoid liposarcoma
New York (Albany Medical Center) - Myxoid liposarcoma (2)
New York, Milwood - Myxoid liposarcoma
New York (Roosevelt Hospital) - Myxoid liposarcoma (2)
New York (St. Lukes Roosevelt Hospital) - Myxoid liposarcoma
New York (Stony Brook University) - Myxoid liposarcoma
New York (SUNY Downstate Medical Center) - Myxoid liposarcoma
New York (Westchester Medical Center) - Myxoliposarcoma
North Carolina (North Carolina Baptist) - Myxoid liposarcoma
Oklahoma (St. Francis Hospital) - Myxoid liposarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Myxoid liposarcoma
Pennsylvania (Drexel Pathology Residents) - Myxoid liposarcoma
Pennsylvania (Lehigh Valley Hospital) - Spindle cell lipoma
Pennsylvania (Magee Women's Hospital) - Myxoid liposarcoma
Puerto Rico (Puerto Rico University) - Spindle cell lipoma/myxoid liposarcoma
Texas, Crystal Beach - Myxoma
Texas, Houston - Myxofibrosarcoma
Texas, Lubbock - Myxoid liposarcoma
Texas (Scott & White Hospital) - Myxoid liposarcoma
Texas, Shavanno Park - Myxoid liposarcoma
Washington (Seattle VA Medical Center) - Myxoid liposarcoma
West Virginia (Greenbrier Valley Medical Center) - Superficial angiomyxoma
Wisconsin, Madison - Myxoid liposarcoma
Australia (Royal Hobart Hospital) - Myxoid liposarcoma
Brazil (Federal University of Sao Paulo) - Spindle cell lipoma
Canada (Pasqua Hospital) - Myxoid liposarcoma
Canada (University of Sherbrooke) - Myxolipoma
Ireland (Beaumont Hospital Residents) - Myxoid liposarcoma
Japan (Asahi General Hospital) - Myxoid liposarcoma
Japan (Kyoto University Hospital) - Myxoid liposarcoma
The Netherlands, Amstelveen - Myxoma
United Kingdom (John Radcliffe Hospital) - Myxoid liposarcoma

Case 2 - Diagnosis:

Myxoid liposarcoma, right chest
 T-Y2100, M-88513

Case 2 - References:

Collini P, Lozza L, Mariani L, Casli PG, et al. Myxoid/Round Cell and Pleomorphic Liposarcomas. Prognostic Factors and Survival in a Series of Patients Treated at a Single Institution. *Cancer* 2007; 109(12):2522-2531.
 Pantanowitz L and Otis CN. Myxoid Liposarcoma. *Diagn Cytopathol* 2007; 35(5):283-284.
 Jones RL, Fisher C, Al-Muderis O, and Judson IR. Differential Sensitivity of Liposarcoma Subtypes to Chemotherapy. *Eur J Cancer* 2005; 41(18):2853-2860.
 Klijanienko J, Caillaud JM and Lagace R. Fine-Needle Aspiration in Liposarcoma. Cytohistologic Correlative Study Including Well-Differentiated, Myxoid, and Pleomorphic Variants. *Diagn Cytopathol* 2004; 30(5):307-312.

Ohguri T, Hisaoka M, Kawauchi S, et al. Cytogenetic Analysis of Myxoid Liposarcoma and Myxofibrosarcoma by Array-Based Comparative Genomic Hybridization. *J Clin Pathol* 2006; 59(9):978-983.

Case No. 3, Accession No. 30763

October 2008 A

Arcadia (ABC Lab) - Intra-osseous hemangioma
Fontana (Kaiser Foundation Hospital) - Hemangioma
Glendale - Hemangioma
Hayward-Fremont (St. Rose Hospital) - Hemangioma and associated granulocytic hyperplasia
Long Beach (Long Beach Veterans Hospital) - Hemangioma
Oakland - Hemangioma
Oakland (Alameda County Medical Center) - Intra-osseous cavernous hemangioma
Oxnard (St. John's Regional Medical Center) - Hemangioma
Pleasant Hill - Osteo (plate-like osteoma cutis)
San Diego (Naval Medical Center) - Hemangioma of bone
San Diego (Scripps Clinic) - Intra-osseous hemangioma
Santa Barbara - Hemangioma
Sonoma (Sonoma Valley Hospital) - Hemangioma (vascular malformation)
Woodland Hills - Hemangioma
Colorado, Fort Collins - Osteoma
Colorado (University of Colorado) - Hemangioma
Florida (Naples Pathology Associates) - Hemangioma of bone
Florida (PGSA) - Aneurysmal bone cyst
Florida (Tallahassee Pathology Associates) - Hemangioma
Georgia, Decatur - Hemangioma
Illinois, Burr Ridge - Angiosarcoma
Illinois, Chicago - Angiosarcoma
Illinois (Heartland Regional Medical Center) - Hemangioma
Illinois (Loyola University Medical Center) - Fibrous dysplasia, skull (1); Cavernous hemangioma (1)
Illinois, Oak Brook - Osteochondroma
Illinois (Office of the Medical Examiner Cook County) - Angiosarcoma
Kansas (Cytocheck Laboratory) - Intra-osseous hemangioma (1); Paget's disease (1)
Louisiana (LSU-HSC) - Cavernous hemangioma
Louisiana (Pathology Group of Louisiana) - Hemangioma
Massachusetts (Massachusetts General Hospital) - Cavernous hemangioma
Massachusetts (Tufts New England Medical Center) - Intra-osseous hemangioma
Massachusetts (University of Massachusetts Medical Center) - Hemangioma of bone
Michigan (Oakwood Hospital) - Hemangioma
Missouri (Missouri Delta Medical Center) - Hemangioma
Minnesota (University of Minnesota) - Hemangioma
New Mexico (New Mexico Veterans Hospital) - Well-differentiated angiosarcoma
New York (Albany Medical Center) - Cavernous hemangioma (1); Hemangioma of the bone
New York, Milwood - Hemangioma
New York (Roosevelt Hospital) - Angiomatosis (1); Capillary hemangioma (1)
New York (St. Lukes Roosevelt Hospital) - Capillary hemangioma
New York (Stony Brook University) - Angiosarcoma
New York (SUNY Downstate Medical Center) - Intra-osseous hemangioma
New York (Westchester Medical Center) - Hemangioma
North Carolina (North Carolina Baptist) - Osteoma
Oklahoma (St. Francis Hospital) - Hemangioma
Pennsylvania (Conemaugh Memorial Medical Center) - Hemangioma
Pennsylvania (Drexel Pathology Residents) - Cavenous hemangioma
Pennsylvania (Lehigh Valley Hospital) - Hemangioma
Pennsylvania (Magee Women's Hospital) - Hemangioma of bone
Puerto Rico (Puerto Rico University) - Intra-osseous cavernous hemangioma

Texas, Crystal Beach - Capillary hemangioma
Texas, Houston - Hemangioma
Texas, Lubbock - Osteoblastoma
Texas (Scott & White Hospital) - Hemangioma
Texas, Shavanno Park - Hemangioma
Washington (Seattle VA Medical Center) - Hemangioma
West Virginia (Greenbrier Valley Medical Center) - Paget's disease of the bone
Wisconsin, Madison - Cavernous hemangioma
Australia (Royal Hobart Hospital) - Cavernous hemangioma of bone
Brazil (Federal University of Sao Paulo) - Bone hemangioma
Canada (Pasqua Hospital) - Hemangioma
Canada (University of Sherbrooke) - Hemangioma
Ireland (Beaumont Hospital Residents) - Hemangioma of bone
Japan (Asahi General Hospital) - Hemangioma
Japan (Kyoto University Hospital) - Hemangioma
The Netherlands, Amstelveen - Intra-osseous hemangioma of the skull
United Kingdom (John Radcliffe Hospital) - Hemangioma of bone

Case 3 - Diagnosis:

Intra-osseous hemangioma of bone, skull
 T-X2302, M-91200

Case 3 - References:

Paradowski B, Zub W, Sasiadek M, et al. Intraosseous Hemangioma in Parietal Bone. *Neurol* 2007; 68(1):44.
 Greene Ak, Rogers GF and Mulliken JB. Intraosseous "Hemangiomas" Are Malformations and Not Tumors. *Plast Reconstr Surg* 2007; 119(6):1949-1950.
 Evans HL, Raymond AK and Ayala AG. Vascular Tumors of Bone. A Study of 17 Cases Other Than Ordinary Hemangioma with an Evaluation of the Relationship of Hemangioendothelioma of Bone to Epithelioid Hemangioma, Epithelioid Hemangioendothelioma, and High-Grade Angiosarcoma. *Hum Pathol* 2003; 34(7):680-689.
 Kocer U, Ozdemir R, Tiftikcioglu YO, et al. Soft Tissue Hemangioma Formation Within a Previously Excised Intraosseous Hemangioma Site. *J Craniofac Surg* 2004; 15(1):82-83.
 Vargel I, cil BE, Kiratli P, et al. Hereditary Intraosseous Vascular Malformation of the Craniofacial Region. Imagina Findings. *Br J Radiol* 2004; 77(915): 197-203.

Case No. 4, Accession No. 30798

October 2008 A

Fontana (Kaiser Foundation Hospital) - Lymphangioma
Glendale - Lymphangioma
Hayward-Fremont (St. Rose Hospital) - Vascular lipoma vs. lipomatous hemangiopericytoma
Long Beach (Long Beach Veterans Hospital) - Benign cyst consistent with mesothelial cyst
Oakland - Atypical lipomatous tumor vs. fibromatosis
Oakland (Alameda County Medical Center) - Lymphangiomatosis
Oxnard (St. John's Regional Medical Center) - Lymphangioma
Pleasant Hill - Angiomyolipoma
San Diego (Naval Medical Center) - Intra-abdominal lymphangioma
San Diego (Scripps Clinic) - Mesenteric lymphangioma
Santa Barbara - Hemangioma
Sonoma (Sonoma Valley Hospital) - Lymphangioma
Woodland Hills - Lymphangioma
Colorado, Fort Collins - Cystic lymphangioma
Colorado (University of Colorado) - Lymphangioma
Florida (Naples Pathology Associates) - Lymphangioma
Florida (PGSA) - Angiolipoma
Florida (Tallahassee Pathology Associates) - Angioma

[Georgia, Decatur](#) - Lymphangioma
[Illinois, Burr Ridge](#) - Angiolipoma
[Illinois, Chicago](#) - Mesenteric fibromatosis
[Illinois \(Heartland Regional Medical Center\)](#) - Cavernous hemangioma
[Illinois \(Loyola University Medical Center\)](#) - Extrarenal angiolipoma, mesentery (1); Angiomatosis (1)
[Illinois, Oak Brook](#) - Lymphangioma
[Illinois \(Office of the Medical Examiner Cook County\)](#) - Mesenteric fibromatosis
[Kansas \(Cytocheck Laboratory\)](#) - Mesenteric fibromatosis (1); Angiolipoma (1)
[Louisiana \(LSU-HSC\)](#) - Angiolipoma
[Louisiana \(Pathology Group of Louisiana\)](#) - Cavernous lymphangioma
[Massachusetts \(Massachusetts General Hospital\)](#) - Cavernous hemangioma with fat
[Massachusetts \(Tufts New England Medical Center\)](#) - Cystic lymphangioma
[Massachusetts \(University of Massachusetts Medical Center\)](#) - Lymphangioma
[Michigan \(Oakwood Hospital\)](#) - Lymphangioma
[Missouri \(Missouri Delta Medical Center\)](#) - Benign cystic mesothelioma
[Minnesota \(University of Minnesota\)](#) - Lymphangioma
[New Mexico \(New Mexico Veterans Hospital\)](#) - Hemangioma
[New York \(Albany Medical Center\)](#) - Mesenteric hemangioma (1); Hemangiolymphangioma (1)
[New York, Milwood](#) - Lymphangioma
[New York \(Roosevelt Hospital\)](#) - Cavernous lymphangioma (2)
[New York \(St. Lukes Roosevelt Hospital\)](#) - Lymphangioma
[New York \(Stony Brook University\)](#) - Lymphangioma
[New York \(SUNY Downstate Medical Center\)](#) - Intra-abdominal cystic lymphangioma
[New York \(Westchester Medical Center\)](#) - Arteriovenous hemangioma
[North Carolina \(North Carolina Baptist\)](#) - Cavernous hemangioma
[Oklahoma \(St. Francis Hospital\)](#) - Lymphangioma
[Pennsylvania \(Conemaugh Memorial Medical Center\)](#) - Lymphangiomatosis/hemangiomatosis
[Pennsylvania \(Drexel Pathology Residents\)](#) - Lymphangioma
[Pennsylvania \(Lehigh Valley Hospital\)](#) - Lymphangioma
[Pennsylvania \(Magee Women's Hospital\)](#) - Cystic lymphangioma
[Puerto Rico \(Puerto Rico University\)](#) - Lymphangiolipoma/angiomatosis
[Texas, Crystal Beach](#) - Hemangioma cavernous
[Texas, Houston](#) - Lymphangioma
[Texas, Lubbock](#) - Cystic mesothelioma
[Texas \(Scott & White Hospital\)](#) - Lymphangioma
[Texas, Shavanno Park](#) - Lymphangioma
[Washington \(Seattle VA Medical Center\)](#) - Lymphangioma
[West Virginia \(Greenbrier Valley Medical Center\)](#) - Venous hemangioma
[Wisconsin, Madison](#) - Mesenteric hemangioma
[Australia \(Royal Hobart Hospital\)](#) - Cavernous lymphangioma
[Brazil \(Federal University of Sao Paulo\)](#) - Lymphangioma, mesenteric
[Canada \(Pasqua Hospital\)](#) - Lymphangioma
[Canada \(University of Sherbrooke\)](#) - Lymphangioma
[Ireland \(Beaumont Hospital Residents\)](#) - Mesenteric cavernous lymphangioma
[Ireland \(Kerry General Hospital\)](#) - Intra-abdominal lymphangioma
[Japan \(Asahi General Hospital\)](#) - Hemangioma
[Japan \(Kyoto University Hospital\)](#) - Hemangioma, cavernous
[The Netherlands, Amstelveen](#) - Hemangioma of mesentery
[United Kingdom \(John Radcliffe Hospital\)](#) - Lymphangioma

Case 4 - Diagnosis:

Mesenteric angioma/lymphangioma
 T-64000, M-91700

Case 4 - References:

Okamoto D, Ishigami K, Yoshimitsu K, et al. Hemorrhagic Mesenteric Cystic Lymphangioma Presenting with Acute Lower Abdominal Pain. The Diagnostic Clues on MR Imagina. *Emerg Radiol* 2008.

- McHugh K and Spitz L. Capillary Haemangioma of the Greater Omentum. *Pediatr Radiol* 2002; 32(2):148-149. *Epub* 2001.
- Ruiz Ar Jr and Ginsberg AL. Giant Mesenteric Hemangioma with Small Intestinal Involvement. An Unusual Cause of Recurrent Gastrointestinal Bleed and Review of Gastrointestinal Hemangiomas. *Dig Dis Sci* 1999; 44(12):2545-2551.
- Meshcheriakov VI and Karpova MV. Hemangioma on a Pedicle on the Mesentery of the Transverse Colon Found During an Appendectomy. *Vestn Khir Im II Grek* 1998; 157(4):110.
- Kinoshita T and Naganuma H. Venous Hemangioma of the Mesocolon. *AJR Am J Roentgenol* 1997; 169(2):600-601.

Case No. 5, Accession No. 30772

October 2008 A

Arcadia (ABC Lab) - Hemangioendothelioma
Fontana (Kaiser Foundation Hospital) - Solitary fibrous tumor
Glendale - Epithelioid hemangioendothelioma
Hayward-Fremont (St. Rose Hospital) - Hemangiopericytoma/SFT
Long Beach (Long Beach Veterans Hospital) - Angiosarcoma, low grade
Oakland - Epithelioid hemangioendothelioma vs. angiosarcoma acquired angioma or pyrogenic granuloma
Oakland (Alameda County Medical Center) - Epithelioid hemangioendothelioma
Oxnard (St. John's Regional Medical Center) - Hemangioendothelioma vs. Kaposi's
Pleasant Hill - Nodular fasciitis
San Diego (Naval Medical Center) - Composite hemangioendothelioma (8); Solitary fibrous tumor (4)
San Diego (Scripps Clinic) - Angiosarcoma
Santa Barbara - Cellular angiolipoma
Sonoma (Sonoma Valley Hospital) - Hemangioendothelioma (epithelioid)
Woodland Hills - Hemangioendothelioma
Colorado, Fort Collins - Solitary fibrous tumor
Colorado (University of Colorado) - Hemangiopericytoma
Florida (Naples Pathology Associates) - Hemangioendothelioma
Florida (PGSA) - Angiosarcoma
Florida (Tallahassee Pathology Associates) - Epithelioid hemangioendothelioma
Georgia, Decatur - Spindle cell hemangioma
Illinois, Burr Ridge - Hemangioendothelioma
Illinois, Chicago - Hemangiopericytoma/solitary fibrous tumor
Illinois (Heartland Regional Medical Center) - Benign fibrovascular tumor, NOS
Illinois (Loyola University Medical Center) - Solitary fibrous tumor, right lower chest wall (2)
Illinois, Oak Brook - Fibrous histiocytoma
Illinois (Office of the Medical Examiner Cook County) - Hemangiopericytoma/solitary fibrous tumor
Kansas (Cytocheck Laboratory) - Atypical vascular proliferation (1); Hemangiopericytoma (1)
Louisiana (LSU-HSC) - Solitary fibrous tumor
Louisiana (Pathology Group of Louisiana) - Epithelioid hemangioendothelioma
Massachusetts (Massachusetts General Hospital) - Spindle cell angioma
Massachusetts (Tufts New England Medical Center) - Hemangioendothelioma
Massachusetts (University of Massachusetts Medical Center) - Epithelioid hemangioendothelioma
Michigan (Oakwood Hospital) - Inflammatory myofibroblastic tumor
Missouri (Missouri Delta Medical Center) - Inflammatory myofibroblastoma (pseudotumor)
Minnesota (University of Minnesota) - Solitary fibrous tumor
New Mexico (New Mexico Veterans Hospital) - Solitary fibrous tumor
New York (Albany Medical Center) - Spindle cell hemangioendothelioma (1); Cellular angiofibroma (1)
New York, Milwood - Hemangioendothelioma
New York (Roosevelt Hospital) - Epithelioid hemangioendothelioma (2)
New York (St. Lukes Roosevelt Hospital) - Epithelioid hemangioendothelioma
New York (Stony Brook University) - Intramuscular hemangioma
New York (SUNY Downstate Medical Center) - Spindle cell hemangioma vs. epithelioid hemangioma
New York (Westchester Medical Center) - Solitary fibrous tumor
North Carolina (North Carolina Baptist) - Epithelioid hemangioma

Oklahoma (St. Francis Hospital) - Spindle cell hemangioma consistent with Kaposi's-like
Pennsylvania (Conemaugh Memorial Medical Center) - Hemangioendothelioma/low-grade angiosarcoma
Pennsylvania (Drexel Pathology Residents) - Kaposi sarcoma
Pennsylvania (Lehigh Valley Hospital) - Epithelioid hemangioendothelioma
Pennsylvania (Magee Women's Hospital) - Spindle cell hemangioendothelioma
Puerto Rico (Puerto Rico University) - Hemangioma/inflammatory pseudotumor
Texas, Crystal Beach - Epithelioid hemangioma
Texas, Houston - Hemangioendothelioma
Texas (Scott & White Hospital) - Hemangioendothelioma
Texas, Shavanno Park - Angiofibroma
Washington (Seattle VA Medical Center) - Hemangioendothelioma
West Virginia (Greenbrier Valley Medical Center) - Epithelioid angiosarcoma
Wisconsin, Madison - Angiosarcoma, low-grade
Australia (Royal Hobart Hospital) - Solitary fibrous tumor
Brazil (Federal University of Sao Paulo) - Hemangioendothelioma
Canada (Pasqua Hospital) - Solitary fibrous tumor
Canada (University of Sherbrooke) - Hemangioendothelioma
Ireland (Beaumont Hospital Residents) - Sclerosing capillary hemangioma
Ireland (Kerry General Hospital) - Epithelioid hemangioendothelioma
Japan (Asashi General Hospital) - Spindle cell hemangioma
Japan (Kyoto University Hospital) - Epithelioid hemangioendothelioma
The Netherlands, Amstelveen - Epithelioid hemangioendothelioma
United Kingdom (John Radcliffe Hospital) - Hemangioendothelioma

Case 5 - Diagnosis:

Epithelioid hemangioendothelioma, chest wall
 T-Y2100, M-91301

Case 5 - References:

Saqi A, Nisbet L, Gagneja P, et al. Primary Pleural Epithelioid Hemangioendothelioma with Rhabdoid Phenotype Report and Review of the Literature. *Diagn Cytopathol* 2007; 35(4):203-208.
 Chirieac LR, Rice DC and Raymond AK. Epithelioid Hemangioendothelioma in a Patient with Unusual Involvement of the Rib and Intercostal Lymph Nodes. *J Thorac Cardiovasc Surg* 2006; 132(6):1488-1489.
 Tsarauha H, Kyriazoglou AI, Ribeiro FR, et al. Chromosome Analysis and Molecular Cytogenetic Investigations of an Epithelioid Hemangioendothelioma. *Cancer Genet Cytogenet* 2006; 169(2):164-168.
 Billings SD, Folpe AL and Weiss SW. Epithelioid Sarcoma-Like Hemangioendothelioma. *Am J Surg Pathol* 2003; 27(1):48-57.
 Nuthakki S, Fessell D, Lal N, et al. Epithelioid Hemangioendothelioma Mimicking a Nerve Sheath Tumor Clinically and on MR Imaging. *Skeletal Radiol* 2007; 36:S58-62.

Case No. 6, Accession No. 30771

October 2008 A

Arcadia (ABC Lab) - Vascular tenosynovitis
Fontana (Kaiser Foundation Hospital) - Angiosarcoma
Glendale - Kaposiform hemangioendothelioma
Hayward-Fremont (St. Rose Hospital) - Inflammatory myofibroblastic tumor
Long Beach (Long Beach Veterans Hospital) - Kaposi sarcoma
Oakland - Benign vascular tumor
Oakland (Alameda County Medical Center) - Kaposiform hemangioendothelioma
Oxnard (St. John's Regional Medical Center) - Bacillary angiomatosis
Pleasant Hill - Kaposiform hemangioendothelioma
San Diego (Naval Medical Center) - Kaposi's sarcoma
San Diego (Scripps Clinic) - Endemic Kaposi's sarcoma
Santa Barbara - Kaposi's sarcoma
Sonoma (Sonoma Valley Hospital) - Kaposi's sarcoma
Woodland Hills - Kaposiform hemangioendothelioma

Colorado, Fort Collins - Angiosarcoma, Kaposi's
Colorado (University of Colorado) - Kaposiform hemangioendothelioma
Florida (Naples Pathology Associates) - Kaposi's sarcoma
Florida (PGSA) - Kaposi's sarcoma
Florida (Tallahassee Pathology Associates) - Kaposi's sarcoma
Georgia, Decatur - Kaposi's sarcoma
Illinois, Burr Ridge - Angiosarcoma
Illinois, Chicago - Hemangioendothelioma, Kaposiform
Illinois (Heartland Regional Medical Center) - Kaposi's sarcoma vs. Kaposiform hemangioendothelioma
Illinois (Loyola University Medical Center) - Angiosarcoma, right knee (1); Pyogenic granuloma (1)
Illinois, Oak Brook - Kaposiform hemangioendothelioma
Illinois (Office of the Medical Examiner Cook County) - Hemangioendothelioma, Kaposiform
Kansas (Cytocheck Laboratory) - Angiosarcoma, Kaposi's (1); Bacillary angiomatosis
Louisiana (LSU-HSC) - Kaposi's sarcoma, endemic
Louisiana (Pathology Group of Louisiana) - Kaposiform hemangioendothelioma
Massachusetts (Massachusetts General Hospital) - Plasmacytoma
Massachusetts (Tufts New England Medical Center) - Kaposi's sarcoma
Massachusetts (University of Massachusetts Medical Center) - Kaposi's sarcoma
Michigan (Oakwood Hospital) - Kaposi's sarcoma
Missouri (Missouri Delta Medical Center) - Kaposi's sarcoma
Minnesota (University of Minnesota) - Kaposi's sarcoma
New Mexico (New Mexico Veterans Hospital) - Kaposi's sarcoma
New York (Albany Medical Center) - Kaposiform hemangioendothelioma (1); Kaposi's sarcoma (1)
New York, Milwood - Nodular fasciitis
New York (Roosevelt Hospital) - Kaposiform hemangioendothelioma (2)
New York (St. Lukes Roosevelt Hospital) - Kaposiform hemangioendothelioma
New York (Stony Brook University) - Kaposiform hemangioendothelioma
New York (SUNY Downstate Medical Center) - Kaposiform hemangioendothelioma
New York (Westchester Medical Center) - Kaposi's sarcoma
North Carolina (North Carolina Baptist) - Bacillary angiomatosis
Oklahoma (St. Francis Hospital) - Kaposiform hemangioendothelioma
Pennsylvania (Conemaugh Memorial Medical Center) - Kaposiform hemangioendothelioma
Pennsylvania (Drexel Pathology Residents) - Kaposiform hemangioendothelioma
Pennsylvania (Lehigh Valley Hospital) - Kaposiform hemangioendothelioma
Pennsylvania (Magee Women's Hospital) - Kaposiform hemangioendothelioma
Puerto Rico (Puerto Rico University) - Kaposiform hemangioendothelioma
Texas, Crystal Beach - Kaposi's sarcoma
Texas, Houston - Angiosarcoma
Texas, Lubbock - Kaposi's sarcoma
Texas (Scott & White Hospital) - Kaposi's sarcoma
Texas, Shavanno Park - Angiomatoid fibrous histiocytoma
Washington (Seattle VA Medical Center) - Hemangioendothelioma
West Virginia (Greenbrier Valley Medical Center) - Kaposi's sarcoma
Wisconsin, Madison - Epithelioid angiosarcoma
Australia (Royal Hobart Hospital) - Kaposi sarcoma
Brazil (Federal University of Sao Paulo) - Kaposiform hemangioendothelioma
Canada (Pasqua Hospital) - Kaposi's sarcoma
Canada (University of Sherbrooke) - Kaposiform hemangioendothelioma
Ireland (Beaumont Hospital Residents) - Kaposi's sarcoma
Ireland (Kerry General Hospital) - Kaposiform hemangioendothelioma
Japan (Asashi General Hospital) - Angiosarcoma
Japan (Kyoto University Hospital) - Kaposi's sarcoma
The Netherlands, Amstelveen - Kaposiform hemangioendothelioma/angiodermatitis
United Kingdom (John Radcliffe Hospital) - Kaposi's sarcoma

Case 6 - Diagnosis:

Kaposi sarcoma, knee

T-Y9200, M-91403

Consultation: Harry Evans, M.D., Anderson Medical Center, “Kaposi Sarcoma”.

Case 6 - References:

- Dittmer DP and Krown SE. Targeted Therapy for Kaposi’s Sarcoma and Kaposi’s Sarcoma-Associated Herpesvirus. *Curr Opin Oncol* 2007; 19(5):452-457.
- Wada DA, Perkins SL, Tripp S, et al. Human Herpesvirus 8 and Iron Staining are Useful in Differentiating Kaposi Sarcoma from Interstitial Granuloma Annulare. *Am J Clin Pathol* 2007; 127(2):263-270.
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- Guttman-Yassky E, Dubnov J, et al. Classic Kaposi Sarcoma Which KSHV-Seropositive Individuals are at Risk? *Cancer* 2006; 106(2):413-419.
- Ganem D. KSHV Infection and the Pathogenesis of Kaposi’s Sarcoma. *Annu Rev Pathol* 2006; 273-296.

Case No. 7, Accession No. 30384

October 2008 A

Arcadia (ABC Lab) - Aggressive hemangioendothelioma
Fontana (Kaiser Foundation Hospital) - Masson’s tumor
Glendale - Angiosarcoma
Hayward-Fremont (St. Rose Hospital) - Angiosarcoma
Long Beach (Long Beach Veterans Hospital) - Angiosarcoma, epithelioid type, high grade
Oakland - Epithelioid angiosarcoma
Oakland (Alameda County Medical Center) - Angiosarcoma
Oxnard (St. John’s Regional Medical Center) - Angiosarcoma
Pleasant Hill - Angiosarcoma
San Diego (Naval Medical Center) - Angiosarcoma
San Diego (Scripps Clinic) - Angiosarcoma
Santa Barbara - Angiosarcoma
Sonoma (Sonoma Valley Hospital) - Epithelioid angiosarcoma
Woodland Hills - Angiosarcoma
Colorado, Fort Collins - Angiosarcoma
Colorado (University of Colorado) - Angiosarcoma
Florida (Naples Pathology Associates) - Angiosarcoma
Florida (PGSA) - Angiosarcoma
Florida (Tallahassee Pathology Associates) - Angiosarcoma
Georgia, Decatur - Angiosarcoma
Illinois, Burr Ridge - Angiosarcoma
Illinois, Chicago - Angiosarcoma
Illinois (Heartland Regional Medical Center) - Angiosarcoma
Illinois (Loyola University Medical Center) - Angiosarcoma
Illinois, Oak Brook - Hemangiosarcoma, high grade
Illinois (Office of the Medical Examiner Cook County) - Angiosarcoma
Kansas (Cytocheck Laboratory) - Angiosarcoma (2)
Louisiana (LSU-HSC) - Angiosarcoma
Louisiana (Pathology Group of Louisiana) - Angiosarcoma
Massachusetts (Massachusetts General Hospital) - Masson body
Massachusetts (Tufts New England Medical Center) - Angiosarcoma
Massachusetts (University of Massachusetts Medical Center) - Angiosarcoma
Michigan (Oakwood Hospital) - Angiosarcoma
Missouri (Missouri Delta Medical Center) - Angiosarcoma
Minnesota (University of Minnesota) - Angiosarcoma
New Mexico (New Mexico Veterans Hospital) - Angiosarcoma
New York (Albany Medical Center) - Low-grade angiosarcoma (2)
New York, Milwood - Angiosarcoma
New York (Roosevelt Hospital) - Angiosarcoma (2)
New York (St. Lukes Roosevelt Hospital) - Angiosarcoma

New York (Stony Brook University) - Angiosarcoma
New York (SUNY Downstate Medical Center) - Angiosarcoma
New York (Westchester Medical Center) - Epithelioid hemangioendothelioma
North Carolina (North Carolina Baptist) - Angiosarcoma
Oklahoma (St. Francis Hospital) - Angiosarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Angiosarcoma
Pennsylvania (Drexel Pathology Residents) - Angiosarcoma
Pennsylvania (Lehigh Valley Hospital) - Angiosarcoma
Pennsylvania (Magee Women's Hospital) - Angiosarcoma
Puerto Rico (Puerto Rico University) - Angiosarcoma of breast
Texas, Crystal Beach - Epithelioid hemangioendothelioma
Texas, Houston - Angiosarcoma
Texas, Lubbock - Angiosarcoma
Texas (Scott & White Hospital) - Angiosarcoma
Texas, Shavanno Park - Angiosarcoma
Washington (Seattle VA Medical Center) - Angiosarcoma
West Virginia (Greenbrier Valley Medical Center) - Angiosarcoma
Wisconsin, Madison - Angiosarcoma breast
Australia (Royal Hobart Hospital) - Angiosarcoma, breast
Brazil (Federal University of Sao Paulo) - Angiosarcoma
Canada (Pasqua Hospital) - Angiosarcoma
Canada (University of Sherbrooke) - Angiosarcoma (epithelioid type)
Ireland (Beaumont Hospital Residents) - Angiosarcoma
Ireland (Kerry General Hospital) - Angiosarcoma
Japan (Asashi General Hospital) - Angiosarcoma
Japan (Kyoto University Hospital) - Angiosarcoma
The Netherlands, Amstelveen - (Epithelioid) intravascular papillary endothelial hyperplasia
United Kingdom (John Radcliffe Hospital) - Angiosarcoma

Case 7 - Diagnosis:

Angiosarcoma, breast
 T-04000, M-91203

Case 7 - References:

Nascimento AF and Raut CP and Fletcher CD. Primary Angiosarcoma of the Breast. Clinicopathologic Analysis of 49 Cases, Suggesting that Grade is Not Prognostic. *Am J Surg Pathol* 2008; 19.
 Patton KT, Deyrup At and Weiss SW. Atypical Vascular Lesions After Surgery and Radiation of the Breast. A Clinicopathologic Study of 32 Cases Analyzing Histologic Heterogeneity and Association with Angiosarcoma. *Am J Surg Pathol* 2008; 32(6):943-950.
 Tahir M, Hendry P, Baird L, et al. Radiation-Induced Angiosarcoma Following Conservative Surgery for Lobular Breast Cancer. *Breast J* 2008; 14(4):390-391.
 Espat NJ, Lewis JJ, Woodruff JM, et al. Confirmed Angiosarcoma. Prognostic Factors and Outcome in 50 Prospectively Followed Patients. *Sarcoma* 2000; 4(4):173-177.
 West J, Liao SY and Cho D. Angiosarcoma After Breast Conservation. Diagnostic Pitfalls. *Clin Breast Cancer* 2008; 8(1):94-96.

Case No. 8, Accession No. 30835

October 2008 A

Arcadia (ABC Lab) - High grade sarcoma (clear cell type)
Fontana (Kaiser Foundation Hospital) - Rhabdomyosarcoma
Glendale - Embryonal rhabdomyosarcoma
Hayward-Fremont (St. Rose Hospital) - Embryonal rhabdomyosarcoma
Long Beach (Long Beach Veterans Hospital) - Rhabdomyosarcoma
Oakland - Rhabdomyosarcoma
Oakland (Alameda County Medical Center) - Embryonal rhabdomyosarcoma
Oxnard (St. John's Regional Medical Center) - Rhabdomyosarcoma
Pleasant Hill - Embryonal rhabdomyosarcoma

San Diego (Naval Medical Center) - Embryonal rhabdomyosarcoma
San Diego (Scripps Clinic) - Embryonal rhabdomyosarcoma
Santa Barbara - Embryonal rhabdomyosarcoma
Sonoma (Sonoma Valley Hospital) - Embryonal rhabdomyosarcoma
Woodland Hills - Embryonal rhabdomyosarcoma
Colorado, Fort Collins - Rhabdomyosarcoma
Colorado (University of Colorado) - Embryonal rhabdomyosarcoma
Florida (Naples Pathology Associates) - Rhabdomyosarcoma
Florida (PGSA) - Rhabdomyosarcoma
Florida (Tallahassee Pathology Associates) - Rhabdomyosarcoma
Georgia, Decatur - Rhabdomyosarcoma
Illinois, Burr Ridge - Rhabdomyosarcoma
Illinois, Chicago - Embryonal rhabdomyosarcoma
Illinois (Heartland Regional Medical Center) - Embryonal rhabdomyosarcoma
Illinois (Loyola University Medical Center) - Embryonal rhabdomyosarcoma
Illinois, Oak Brook - Embryonal rhabdomyosarcoma
Illinois (Office of the Medical Examiner Cook County) - Embryonal rhabdomyosarcoma
Kansas (Cytocheck Laboratory) - Embryonal rhabdomyosarcoma (1); Rhabdomyosarcoma (1)
Louisiana (LSU-HSC) - Rhabdomyosarcoma
Louisiana (Pathology Group of Louisiana) - Rhabdomyosarcoma
Massachusetts (Massachusetts General Hospital) - Embryonal rhabdomyosarcoma
Massachusetts (Tufts New England Medical Center) - Rhabdomyosarcoma
Massachusetts (University of Massachusetts Medical Center) - Embryonal rhabdomyosarcoma
Michigan (Oakwood Hospital) - Embryonal rhabdomyosarcoma
Missouri (Missouri Delta Medical Center) - Embryonal cancer vs. Ewing's sarcoma
Minnesota (University of Minnesota) - Rhabdomyosarcoma
New Mexico (New Mexico Veterans Hospital) - Rhabdomyosarcoma
New York (Albany Medical Center) - Embryonal rhabdomyosarcoma (2)
New York, Milwood - Embryonal rhabdomyosarcoma
New York (Roosevelt Hospital) - Embryonal rhabdomyosarcoma (2)
New York (St. Lukes Roosevelt Hospital) - Rhabdomyosarcoma
New York (Stony Brook University) - Embryonal rhabdomyosarcoma
New York (SUNY Downstate Medical Center) - Embryonal rhabdomyosarcoma
New York (Westchester Medical Center) - Embryonal rhabdomyosarcoma
North Carolina (North Carolina Baptist) - Embryonal rhabdomyosarcoma
Oklahoma (St. Francis Hospital) - Embryonal rhabdomyosarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Embryonal rhabdomyosarcoma
Pennsylvania (Drexel Pathology Residents) - Spindle cell rhabdomyosarcoma
Pennsylvania (Lehigh Valley Hospital) - Embryonal rhabdomyosarcoma
Pennsylvania (Magee Women's Hospital) - Embryonal rhabdomyosarcoma
Puerto Rico (Puerto Rico University) - Embryonal rhabdomyosarcoma
Texas, Crystal Beach - Rhabdomyosarcoma
Texas, Houston - Leiomyosarcoma
Texas, Lubbock - Embryonal rhabdomyosarcoma
Texas, Shavanno Park - Embryonal rhabdomyosarcoma
Washington (Seattle VA Medical Center) - Rhabdomyosarcoma
West Virginia (Greenbrier Valley Medical Center) - Yolk sac tumor
Wisconsin, Madison - Embryonal rhabdomyosarcoma
Australia (Royal Hobart Hospital) - Embryonal rhabdomyosarcoma
Brazil (Federal University of Sao Paulo) - Rhabdomyosarcoma, spindle cell-type
Canada (Pasqua Hospital) - Rhabdomyosarcoma
Canada (University of Sherbrooke) - Rhabdomyosarcoma, embryonal type
Ireland (Beaumont Hospital Residents) - Embryonal rhabdomyosarcoma
Ireland (Kerry General Hospital) - Paratesticular embryonal rhabdomyosarcoma
Japan (Asashi General Hospital) - Rhabdomyosarcoma, embryonal type
Japan (Kyoto University Hospital) - Rhabdomyosarcoma
The Netherlands, Amstelveen - Embryonal rhabdomyosarcoma

United Kingdom (John Radcliffe Hospital) - Rhabdomyosarcoma

Case 8 - Diagnosis:

Embryonal rhabdomyosarcoma, testicle
T-78000, M-89103

Case 8 - References:

Fabbro MA, Costa L, Cimaglia ML, et al. Testicular and Paratesticular Tumors in Children. *Pediatr Med Chir* 1995; 17(6):509-512.

McClellan DS and Roscher A. Intrascrotal Tumors in the Older Male. *Intra Surg* 1986; 71(1):51-52.

Daneshbod Y, Monabati A, Kumar PV, et al. Paratesticular Spindle Cell Rhabdomyosarcoma Diagnosed by Fine Needle Aspiration Cytology. A Case Report. *Acta Cytol* 2005; 49(3):331-334.

Godbole P, Outram A, Wilcox DT, et al. Myogenin and Desmin Immunohistochemistry in the Assessment of Post-Chemotherapy Genitourinary Embryonal Rhabdomyosarcoma. Prognostic and Management Implications. *J Urol* 2006; 176:1751-1754.

Nigro KG. Cytodifferentiation, But Not Resolution, of Embryonal Rhabdomyosarcoma. *Pediatr Dev Pathol* 2004; 7(4):398-399.

Case No. 9, Accession No. 30383

October 2008 A

Arcadia (ABC Lab) - Malignant fibrous histiocyoma

Fontana (Kaiser Foundation Hospital) - Spindle cell sarcoma

Glendale - Fibrosarcoma

Hayward-Fremont (St. Rose Hospital) - Sarcoma noc, consideration to primary histiocytic sarcoma

Long Beach (Long Beach Veterans Hospital) - Spindle cell sarcoma, high grade (MFH)

Oakland - Fibrosarcoma

Oakland (Alameda County Medical Center) - Pleomorphic sarcoma

Oxnard (St. John's Regional Medical Center) - Malignant fibrous histiocyoma

Pleasant Hill - Synovial sarcoma

San Diego (Naval Medical Center) - Undifferentiated pleomorphic sarcoma (malignant fibrous histiocyoma)

San Diego (Scripps Clinic) - Grade 3 sarcoma (malignant fibrous histiocyoma)

Santa Barbara - Synovial sarcoma

Sonoma (Sonoma Valley Hospital) - Malignant fibrous histiocyoma

Woodland Hills - Malignant fibrous histiocyoma (pleomorphic undifferentiated sarcoma)

Colorado, Fort Collins - Fibrosarcoma

Colorado (University of Colorado) - Fibrosarcoma

Florida (Naples Pathology Associates) - Malignant fibrohistiocyoma

Florida (PGSA) - Malignant fibrous histiocyoma (MFH)

Florida (Tallahassee Pathology Associates) - Malignant fibrous histiocyoma

Georgia, Decatur - Pleomorphic sarcoma

Illinois, Burr Ridge - Malignant giant cell tumor of soft tissue

Illinois, Chicago - Malignant fibrous histiocyoma

Illinois (Heartland Regional Medical Center) - Spindle cell sarcoma, favor fibrosarcoma

Illinois (Loyola University Medical Center) - Malignant fibrous histiocyoma

Illinois, Oak Brook - Malignant fibrous histiocyoma

Illinois (Office of the Medical Examiner Cook County) - Malignant fibrous histiocyoma

Kansas (Cytocheck Laboratory) - Malignant schwannoma (1); MFH (1)

Louisiana (LSU-HSC) - Pleomorphic MFH, undifferentiated high grade pleomorphic sarcoma

Louisiana (Pathology Group of Louisiana) - Atypical fibroxanthoma (MFH)

Massachusetts (Massachusetts General Hospital) - MFH

Massachusetts (Tufts New England Medical Center) - High-grade sarcoma with malignant fibrous histiocyoma, phenotype

Massachusetts (University of Massachusetts Medical Center) - Undifferentiated high grade pleomorphic sarcoma

Michigan (Oakwood Hospital) - Fibrosarcoma

Missouri (Missouri Delta Medical Center) - Synovial sarcoma

Minnesota (University of Minnesota) - Malignant fibrous histiocyoma

New Mexico (New Mexico Veterans Hospital) - High-grade malignant spindle cell neoplasm

New York (Albany Medical Center) - Malignant fibrous histiocyoma, storiform pleomorphic type (2)

New York, Milwood - Pleomorphic sarcoma
New York (Roosevelt Hospital) - Pleomorphic malignant fibrous histiocytoma
New York (St. Lukes Roosevelt Hospital) - Malignant fibrous histiocytoma
New York (Stony Brook University) - Malignant fibrous histiocytoma
New York (SUNY Downstate Medical Center) - Malignant fibrous histiocytoma
New York (Westchester Medical Center) - Monophasic synovial sarcoma
North Carolina (North Carolina Baptist) - Pleomorphic high grade spindle cell neoplasm/MFH
Oklahoma (St. Francis Hospital) - Undifferentiated sarcoma, malignant fibrous histiocytoma, type
Pennsylvania (Conemaugh Memorial Medical Center) - Angiomatoid malignant fibrous histiocytoma
Pennsylvania (Drexel Pathology Residents) - Myxoid malignant fibrous histiocytoma
Pennsylvania (Lehigh Valley Hospital) - High grade sarcoma, probably fibrosarcoma
Pennsylvania (Magee Women's Hospital) - Epithelioid sarcoma
Puerto Rico (Puerto Rico University) - Pleomorphic sarcoma/malignant fibrous histiocytoma
Texas, Crystal Beach - Granular cell tumor, malignant
Texas, Lubbock - Histiocytic sarcoma
Texas (Scott & White Hospital) - High grade spindle cell sarcoma (MFH)
Texas, Shavanno Park - Histiocytic sarcoma
Washington (Seattle VA Medical Center) - Malignant histiocytic neoplasm
West Virginia (Greenbrier Valley Medical Center) - Nodular fasciitis
Wisconsin, Madison - Malignant fibrous histiocytoma
Australia (Royal Hobart Hospital) - High grade pleomorphic spindle cell sarcoma
Brazil (Federal University of Sao Paulo) - Pleomorphic sarcoma (malignant fibrous histiocytoma)
Canada (Pasqua Hospital) - Malignant fibrous histiocytoma
Ireland (Beaumont Hospital Residents) - High grade sarcoma, favor MFH
Ireland (Kerry General Hospital) - Undifferentiated sarcoma
Japan (Asashi General Hospital) - Histiocytic cell sarcoma
Japan (Kyoto University Hospital) - Epithelioid and spindle cell sarcoma (r/o follicular dendritic cell sarcoma)
The Netherlands, Amstelveen - Sarcoma, NOS/Malignant fibrous histiocytoma
United Kingdom (John Radcliffe Hospital) - Pleomorphic sarcoma, NOS

Case 9 - Diagnosis:

Undifferentiated pleomorphic sarcoma (MFH phenotype), lower extremity
 T-Y1800, M-88103

Directors Note: A possible alternate diagnosis would be "pleomorphic fibrosarcoma" which is what "pleomorphic-storiform MFH" was originally called!" (drc)

Case 9 - References:

Fletcher CD, Gustafson P, Rydholm A, et al. Clinicopathologic Re-Evaluation of 100 Malignant Fibrous Histiocytomas. Prognostic Relevance of Subclassification. *J Clin Oncol* 2001; 19(12):3045-3050.
 Mentzel T, Calonje E and Wadden C. Myxofibrosarcoma. Clinicopathologic Analysis of 75 Cases with Emphasis on the Low-Grade Variant. *Am J Surg Pathol* 1996; 20(4):391-405.
 Weiss SW and Enzinger FM. Malignant Fibrous Histiocytoma. An Analysis of 200 Cases. *Cancer* 1978; 41(6):2250-2266.
 Guo H, Xiong Y, Nong L, Zhang S, et al. Reassessment of the Pathological Diagnosis in 33 Cases of Malignant Fibrous Histiocytoma. *Beijing Da Xue Xue Bao* 2008; 40(4):374-379.
 Agaimy A, Gaumann A, Schroeder J, Dietmaier W, et al. Primary and Metastatic High-Grade Pleomorphic Sarcoma/Malignant Fibrous Histiocytoma of the Gastrointestinal Tract. An Approach to the Differential Diagnosis in a Series of Five Cases with Emphasis on Myofibroblastic Differentiation. *Virchows Arch* 2007; 451(5):949-957.

Case No. 10, Accession No. 30350

October 2008 A

Arcadia (ABC Lab) - Malignant fibrous histiocytoma
Fontana (Kaiser Foundation Hospital) - Proliferative myositis
Glendale - Malignant fibrous histiocytoma
Hayward-Fremont (St. Rose Hospital) - Rhabdomyosarcoma
Long Beach (Long Beach Veterans Hospital) - Recurrent sarcoma, favor rhabdomyosarcoma

Oakland - De-differentiated liposarcoma or malignant fibrous histiocytoma
Oakland (Alameda County Medical Center) - Proliferative myositis
Oxnard (St. John's Regional Medical Center) - Pleomorphic liposarcoma
Pleasant Hill - Malignant fibrous histiocytoma
San Diego (Naval Medical Center) - Undifferentiated pleomorphic sarcoma (malignant fibrous histiocytoma)
San Diego (Scripps Clinic) - Pleomorphic sarcoma, favor rhabdomyosarcoma
Santa Barbara - Rhabdomyosarcoma
Sonoma (Sonoma Valley Hospital) - Pleomorphic liposarcoma
Woodland Hills - Recurrent high grade sarcoma (? MFH)
Colorado, Fort Collins - Dedifferentiated liposarcoma
Colorado (University of Colorado) - Pleomorphic sarcoma/MFH
Florida (Naples Pathology Associates) - Malignant fibrohistiocytoma
Florida (PGSA) - Pleomorphic malignant fibrous histiocytoma
Florida (Tallahassee Pathology Associates) - Malignant fibrous histiocytoma
Georgia, Decatur - Malignant fibrous histiocytoma
Illinois, Burr Ridge - Malignant fibrous histiocytoma
Illinois, Chicago - Malignant fibrous histiocytoma
Illinois (Heartland Regional Medical Center) - Malignant fibrous histiocytoma
Illinois (Loyola University Medical Center) - Malignant fibrous histiocytoma
Illinois, Oak Brook - Extraskelatal osteosarcoma
Illinois (Office of the Medical Examiner Cook County) - Malignant fibrous histiocytoma
Kansas (Cytocheck Laboratory) - Malignant schwannoma (? Triton tumor) (1); Rhabdomyosarcoma (1)
Louisiana (LSU-HSC) - MFH, undifferentiated pleomorphic sarcoma with giant cells
Louisiana (Pathology Group of Louisiana) - Inflammatory malignant fibrous histiocytoma
Massachusetts (Massachusetts General Hospital) - Rhabdomyosarcoma
Massachusetts (Tufts New England Medical Center) - Osteosarcoma
Massachusetts (University of Massachusetts Medical Center) - Undifferentiated high grade sarcoma
Michigan (Oakwood Hospital) - Pleomorphic sarcoma, high grade
Missouri (Missouri Delta Medical Center) - Myxofibrosarcoma (MFH)
Minnesota (University of Minnesota) - Hyalinizing malignant fibrous histiocytoma
New Mexico (New Mexico Veterans Hospital) - Pleomorphic sarcoma
New York (Albany Medical Center) - Extraskelatal osteosarcoma (1); Pleomorphic hyalinizing ? tumor (1)
New York, Milwood - Malignant fibrous histiocytoma
New York (Roosevelt Hospital) - Giant cell rich osteosarcoma (1); Osteosarcoma vs. MFH (1)
New York (St. Lukes Roosevelt Hospital) - Osteosarcoma
New York (Stony Brook University) - Malignant fibrous histiocytoma
New York (SUNY Downstate Medical Center) - Pleomorphic rhabdomyosarcoma vs. malignant fibrous histiocytoma
New York (Westchester Medical Center) - Benign desmoplastic fibroblastoma
North Carolina (North Carolina Baptist) - Inflammatory myxohyaline tumor of distal extremity with virocyte and Reed-Sternberg like cells
Oklahoma (St. Francis Hospital) - Malignant fibrous histiocytoma, giant cell type
Pennsylvania (Conemaugh Memorial Medical Center) - Undifferentiated pleomorphic sarcoma with giant cells
Pennsylvania (Drexel Pathology Residents) - Undifferentiated high grade pleomorphic sarcoma
Pennsylvania (Lehigh Valley Hospital) - Osteosarcoma
Pennsylvania (Magee Women's Hospital) - Dedifferentiated liposarcoma
Puerto Rico (Puerto Rico University) - Pleomorphic sarcoma/pleomorphic liposarcoma/pleomorphic rhabdomyosarcoma
Texas, Crystal Beach - Malignant fibrous histiocytoma
Texas, Houston - Atypical fibroxanthoma
Texas, Lubbock - Pleomorphic rhabdomyosarcoma
Texas (Scott & White Hospital) - High grade pleomorphic sarcoma (MFH)
Texas, Shavanno Park - Pleomorphic sarcoma
Washington (Seattle VA Medical Center) - Pleomorphic sarcoma, possibly rhabdomyo-type
West Virginia (Greenbrier Valley Medical Center) - Malignant fibro-histiocytic tumor
Wisconsin, Madison - Malignant fibrous histiocytoma
Australia (Royal Hobart Hospital) - High grade pleomorphic sarcoma with giant cells/giant cell MFH
Brazil (Federal University of Sao Paulo) - Rhabdomyosarcoma, pleomorphic type vs. malignant fibrous histiocytoma

Canada (Pasqua Hospital) - Sarcoma/rhabdomyosarcoma
Canada (University of Sherbrooke) - Inflammatory myofibroblastic tumor
Ireland (Beaumont Hospital Residents) - Pleomorphic rhabdomyosarcoma
Ireland (Kerry General Hospital) - Pleomorphic rhabdomyosarcoma
Japan (Asahi General Hospital) - Malignant fibrous histiocytoma, giant cell type
Japan (Kyoto University Hospital) - Undifferentiated pleomorphic sarcoma
The Netherlands, Amstelveen - Pleomorphic sarcoma, NOS
United Kingdom (John Radcliffe Hospital) - Pleomorphic sarcoma, NOS

Case 10 - Diagnosis:

Undifferentiated pleomorphic sarcoma (MFH phenotype), thigh
T-Y9100, M-88303

Case 10 - References:

See combined references on Case #9.