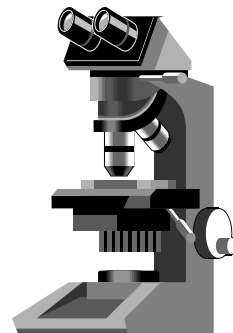


CALIFORNIA
TUMOR TISSUE REGISTRY

SOFT TISSUE PATHOLOGY

Minutes – Subscription A

May 2002



SUGGESTED READING (General Topics from Recent Literature):

- Biological and Clinical Significance of Cytogenetic Abnormalities in Low-Risk and High-Risk Gastrointestinal Stromal Tumors. Gunawan B, Bergmann F, Hoer J, et al. *Hum Pathol* 2002; 33(3):316-321.
- Molecular Characterization of Soft Part Tumours. A Gene Expression Study. Nielson TO, West RB, Linn SC, Alter O, et al. *Lancet* 2002; 359(9314):1301-1306.
- MAGE Antigen Expression in Monophasic and Biphasic Synovial Sarcoma. *Hum Pathol* 2002; 33(2):225-229.
- C-Kit Expression in Pediatric Solid Tumors. Comparative Immunohistochemical Study. Smithey BE, Pappo AS and Hill DA. *Am J Surg Pathol* 2002; 26(4):486-492.

California Tumor Tissue Registry
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FILE DIAGNOSES

CTTR Subscription A

May 2002

Case 1:

Nodular fasciitis, thigh
T-Y9100, M-76130

Case 2:

Cardiac (atrial) myxoma
T-32000, M-88400

Case 3:

Dermatofibrosarcoma protuberans (DFSP), shoulder
T-Y1220, M-88323

Case 4:

Well-Differentiated liposarcoma, abdomen
T-Y4100, M-88515

Case 5:

Myxoid liposarcoma, lower extremity
T-Y1800, M-88523

Case 6:

Pleomorphic high grade sarcoma (with phenotype of so-called MFH), abdominal wall
T-Y4100, M-88023

Case 7:

Calcifying monophasic synovial sarcoma, hip
T-Y1500, M-90403

Case 8:

Smooth muscle neoplasm of uncertain malignant potential, retroperitoneum
T-Y4600, M-88900

Case 9:

Embryonal rhabdomyosarcoma, spindle cell type, abdominal wall
T-Y4100, M-89103

Case 10:

Dermatofibrosarcoma protuberans (DFSP), leg
T-Y9400, M-91501

Bay Area - Myxoid fibrous histiocytoma (2); Myxofibroma (1); Giant cell fibroblastoma (1)
Fontana (Kaiser Permanente) - Intramuscular fasciitis (3); vs. malignant fibrous histiocytoma (3)
Fresno (St. Agnes) - Nodular fasciitis
Hayward (St. Rose Hospital) - Malignant fibrous histiocytoma, giant cell type
Long Beach - Nodular fasciitis (5)
Monterey (Community Hospital of Monterey Peninsula) - Rhabdomyosarcoma (3) vs. nodular fasciitis (1)
Monterey Park (Garfield Medical Center) - Nodular fasciitis (benign)
Oakland (Kaiser Permanente) - Proliferative fasciitis
Orange (UCI Medical Center Residents) - Nodular fasciitis
Riverside/Moreno Valley - Nodular fasciitis, intramuscular type (1); Nodular fasciitis with prominent giant cells (1)
Sacramento (UCDMC) - Giant cell tumor of tendon sheath
San Diego (Naval Medical Center) - Nodular fasciitis, favor intravascular type (1); Intravascular fasciitis (1)
Santa Barbara (Cottage Hospital) - Nodular fasciitis
Santa Clara - Deep fibrous histiocytoma
Santa Rosa - Soft tissue giant cell tumor of low malignant potential (3)
Ventura (Unilab) - Benign fibrous histiocytoma (3)
Alabama (BMC Princeton) - Giant cell fibroblastoma, thigh
Alaska, Anchorage - Nodular fasciitis
Colorado (Lutheran Medical Center) - Nodular fasciitis
Florida (Baptist Medical Center) - Nodular fasciitis (3); Soft tissue giant cell tumor, low malignant potential (1)
Florida (Munroe Regional Medical Center) - Nodular fasciitis
Florida (Winter Haven Hospital) - Malignant fibrous histiocytoma
Illinois, Chicago - Giant cell tumor
Illinois (Evanston Hospital) - Myxoid malignant fibrous histiocytoma
Indiana (Fort Wayne) - Deep fibrous histiocytoma, left posterior thigh
Louisiana (Louisiana State University Medical Center) - Giant cell fibroblastoma
Maryland, Bethesda - Nodular fasciitis (7); Proliferative myositis (1)
Maryland (Johns Hopkins Hospital Residents) - Nodular fasciitis (1); Nodular fasciitis with osteoclastic giant cells (1)
Maryland (NIH Pathology Residents) - Nodular fasciitis
Massachusetts (Berkshire Medical Center) - Giant cell variant of nodular fasciitis
Massachusetts (New England Medical Center) - Deep benign fibrous histiocytoma
Michigan (Oakwood Hospital) - Nodular fasciitis
Michigan (St. Joseph Mercy Hospital) - Nodular fasciitis
Missouri (TMC, Kansas City) - Nodular fasciitis
Nebraska (Creighton Pathology Residents) - Nodular fasciitis, giant cell variant
New Jersey (Overlook Hospital) - Nodular fasciitis (3)
New York (Long Island Jewish Medical Center) - Nodular fasciitis
New York (Northport VA Medical Center) - Nodular fasciitis
New York (Stony Brook University Hospital Residents) - Low-grade fibromyxoid sarcoma
Pennsylvania (Allegheny General Hospital) - Nodular fasciitis
Pennsylvania (Lehigh Valley Hospital) - Proliferative myositis
Pennsylvania (Memorial Medical Center Residents) - Embryonal rhabdomyosarcoma
Puerto Rico (University of Puerto Rico) - Giant cell tumor of the tendon sheath
Texas, Lubbock - Fibrous histiocytoma
Texas (ProPath Services) - Fibrous histiocytoma of soft tissues (1); Intramuscular nodular fasciitis (1)
Texas, San Antonio - Nodular fasciitis
Texas (Scott & White Memorial Hospital) - Nodular fasciitis
West Virginia (Greenbrier Valley Medical Center) - Proliferative myositis
Wisconsin (Meriter Hospital) - Nodular fasciitis
Wisconsin, Milwaukee - Proliferative fasciitis

Australia (North Queensland Pathology Group) - Leiomyoma with giant cell. DDx: Nodular fasciitis
Canada (Foothills Medical Center) - Nodular fasciitis with osteoclast-like giant cells
Japan (Yamanashi Medical University) - Nodular fasciitis (2); Vascular leiomyoma (1)
Netherlands, Amsterdam - Nodular fasciitis
Saudi Arabia (King Khalid University Hospital Study Group) - Nodular fasciitis

Case 1 - Diagnosis:

Nodular fasciitis, thigh
T-Y9100, M-76130

Case 1 – References:

Montgomery EA and Meis JM. Nodular Fasciitis. Its Morphologic Spectrum and Immunohistochemical Profile. *Am J Surg Pathol* 1991; 15(10):942-948.
Allen PW. Nodular Fasciitis. *Pathol* 1972; 4(1):9-26.
Sarangarajan R and Dehner LP. Cranial and Extracranial Fasciitis of Childhood. A Clinicopathologic and Immunohistochemical Study. *Hum Pathol* 1999; 30(1):87-92.

Case No. 2, Accession No. 29366

May 2002

Bay Area - Atrial myxoma
Fontana (Kaiser Permanente) - Cardiac myxoma
Fresno (St. Agnes) - Cardiac myxoma
Hayward (St. Rose Hospital) - Atrial myxoma
Long Beach - Myxoma (5)
Monterey (Community Hospital of Monterey Peninsula) - Atrial myxoma
Monterey Park (Garfield Medical Center) - Atrial myxoma and organizing thrombus
Oakland (Kaiser Permanente) - Myxoma
Orange (UCI Medical Center Residents) - Cardiac myxoma
Riverside/Moreno Valley - Myxoma, cardiac (2)
Sacramento (UCDMC) - Myxoma
San Diego (Naval Medical Center) - Cardiac myxoma (2)
Santa Barbara (Cottage Hospital) - Atrial myxoma
Santa Clara - Atrial myxoma
Santa Rosa - Atrial myxoma (3)
Ventura (Unilab) - Myxoma (2); Cardiac myxoma (1)
Alabama (BMC Princeton) - Atrial myxoma
Alaska, Anchorage - Cardiac myxoma
Colorado (Lutheran Medical Center) - Papillary fibroelastoma
Florida (Baptist Medical Center) - Atrial myxoma (3); ? malignant epithelioid intimal sarcoma (1)
Florida (Munroe Regional Medical Center) - Myxoma
Florida (Winter Haven Hospital) - Atrial myxoma
Illinois, Chicago - Atrial myxoma
Illinois (Evanston Hospital) - Myxoma
Indiana (Fort Wayne) - Myxoma, right atrium
Louisiana (Louisiana State University Medical Center) - Myxoma
Maryland, Bethesda - Myxoma (8)
Maryland (Johns Hopkins Hospital Residents) - Cardiac myxoma (2)
Maryland (NIH Pathology Residents) - Cardiac myxoma
Massachusetts (Berkshire Medical Center) - Cardiac myxoma
Massachusetts (New England Medical Center) - Atrial myxoma
Michigan (Oakwood Hospital) - Cardiac myxoma
Michigan (St. Joseph Mercy Hospital) - Myxoma

Missouri (TMC, Kansas City) - Atrial myxoma
Nebraska (Creighton Pathology Residents) - Cardiac myxoma
New Jersey (Overlook Hospital) - Atrial myxoma (3)
New York (Long Island Jewish Medical Center) - Cardiac myxoma
New York (Northport VA Medical Center) - Atrial myxoma
New York (Stony Brook University Hospital Residents) - Myxoma
Pennsylvania (Allegheny General Hospital) - Atrial myxoma
Pennsylvania (Lehigh Valley Hospital) - Atrial myxoma
Pennsylvania (Memorial Medical Center Residents) - Myxoma
Puerto Rico (University of Puerto Rico) - Atrial myxoma
Texas, Lubbock - Myxoma
Texas (ProPath Services) - Cardiac myxoma (2)
Texas, San Antonio - Cardiac myxoma
Texas (Scott & White Memorial Hospital) - Myxoma
West Virginia (Greenbrier Valley Medical Center) - Cardiac myxoma
Wisconsin (Meriter Hospital) - Cardiac myxoma
Wisconsin, Milwaukee - Cardiac myxoma
Australia (North Queensland Pathology Group) - Cardiac myxoma
Canada (Foothills Medical Center) - Atrial myxoma
Japan (Yamanashi Medical University) - Cardiac myxoma (3)
Netherlands, Amsterdam - Cardiac myxoma
Saudi Arabia (King Khalid University Hospital Study Group) - Atrial myxoma

Case 2 - Diagnosis:

Cardiac (atrial) myxoma
 T-32000, M-88400

Case 2 - References:

Burke A, and Virmani R. Fascicle Tumors of the Heart and Great Vessels. *Atlas of Tumor Pathology, Third Series, Armed Forces Institute of Pathology*, Washington, D.C. 1995; 21-46.
 Burke AP and Virmani R. Cardiac Myxoma. A Clinicopathologic Study. *Am J Clin Pathol* 1993; 100(6):671-680.
 Murphy MC, Sweeney MS, Putnam JB, Jr., et al. Surgical Treatment of Cardiac Tumors. A 25-Year Experience. *Ann Thorac Surg* 1990; 49(4):612-617.
 Harris NL, McNeeley WF, Shepard JAO, et al. Case Records of the Massachusetts General Hospital. *New Engl J of Med* 2002; 346(15):1152-1158.

Case No. 3, Accession No. 29380

May 2002

Bay Area - Dermatofibrosarcoma protuberans (DFSP) (4)
Fontana (Kaiser Permanente) - Dermatofibrosarcoma protuberans (DFSP)
Fresno (St. Agnes) - Dermatofibrosarcoma protuberans
Hayward (St. Rose Hospital) - Dermatofibrosarcoma protuberans
Long Beach - Dermatofibrosarcoma protuberans (5)
Monterey (Community Hospital of Monterey Peninsula) - Dermatofibrosarcoma protuberans
Monterey Park (Garfield Medical Center) - Dermatofibrosarcoma protuberans
Orange (Kaiser Permanente) - Dermatofibrosarcoma protuberans (DFSP)
Orange (UCI Medical Center Residents) - Dermatofibrosarcoma protuberans
Riverside/Moreno Valley - Dermatofibrosarcoma protuberans (2)
Sacramento (UCDMC) - Peripheral nerve sheath tumor
San Diego (Naval Medical Center) - Dermatofibrosarcoma protuberans (2)
Santa Barbara (Cottage Hospital) - Dermatofibrosarcoma protuberans
Santa Clara - Dermatofibrosarcoma protuberans
Santa Rosa - Dermatofibrosarcoma protuberans (3)
Ventura (Unilab) - Dermatofibrosarcoma protuberans (3)
Alabama (BMC Princeton) - Dermatofibrosarcoma protuberans, shoulder
Alaska, Anchorage - Neurilemmoma (schwannoma)

Colorado (Lutheran Medical Center) - Dermatofibrosarcoma protuberans
Florida (Baptist Medical Center) - Dermatofibrosarcoma protuberans (4)
Florida (Munroe Regional Medical Center) - Dermatofibrosarcoma protuberans
Florida (Winter Haven Hospital) - Dermatofibrosarcoma protuberans
Illinois, Chicago - Dermatofibrosarcoma protuberans
Illinois (Evanston Hospital) - Spindle cell lipoma
Indiana (Fort Wayne) - Dermatofibrosarcoma protuberans, right shoulder
Louisiana (Louisiana State University Medical Center) - Dermatofibrosarcoma protuberans
Maryland, Bethesda - Dermatofibrosarcoma protuberans (8)
Maryland (Johns Hopkins Hospital Residents) - Dermatofibrosarcoma protuberans (2)
Maryland (NIH Pathology Residents) - Dermatofibrosarcoma protuberans
Massachusetts (Berkshire Medical Center) - Dermatofibrosarcoma protuberans
Massachusetts (New England Medical Center) - Dermatofibrosarcoma protuberans
Michigan (Oakwood Hospital) - Dermatofibrosarcoma protuberans
Michigan (St. Joseph Mercy Hospital) - Dermatofibrosarcoma protuberans
Missouri (TMC, Kansas City) - Dermatofibrosarcoma protuberans
Nebraska (Creighton Pathology Residents) - Dermatofibrosarcoma protuberans
New Jersey (Overlook Hospital) - Dermatofibrosarcoma protuberans (3)
New York (Long Island Jewish Medical Center) - Dermatofibrosarcoma protuberans
New York (Northport VA Medical Center) - Dermatofibrosarcoma protuberans
New York (Stony Brook University Hospital Residents) - Dermatofibrosarcoma protuberans
Pennsylvania (Allegheny General Hospital) - Dermatofibrosarcoma protuberans
Pennsylvania (Lehigh Valley Hospital) - Dermatofibrosarcoma protuberans
Pennsylvania (Memorial Medical Center Residents) - Dermatofibrosarcoma protuberans
Puerto Rico (University of Puerto Rico) - Dermatofibrosarcoma protuberans
Texas, Lubbock - Dermatofibrosarcoma protuberans
Texas (ProPath Services) - Dermatofibrosarcoma protuberans (2)
Texas, San Antonio - Dermatofibrosarcoma protuberans
Texas (Scott & White Memorial Hospital) - Dermatofibrosarcoma protuberans
West Virginia (Greenbrier Valley Medical Center) - Dermatofibrosarcoma protuberans
Wisconsin (Meriter Hospital) - Dermatofibrosarcoma protuberans
Wisconsin, Milwaukee - Dermatofibrosarcoma protuberans
Australia (North Queensland Pathology Group) - Dermatofibrosarcoma protuberans
Canada (Foothills Medical Center) - Dermatofibrosarcoma protuberans
Japan (Yamanashi Medical University) - Dermatofibrosarcoma protuberans (3)
Netherlands, Amsterdam - Dermatofibrosarcoma protuberans
Saudi Arabia (King Khalid University Hospital Study Group) - Dermatofibrosarcoma protuberans

Case 3 - Diagnosis:

Dermatofibrosarcoma protuberans (DFSP), shoulder
 T-Y1220, M-88323

Case 3 - References:

Fanburg-Smith JC, and Miettinen M. Low Affinity Nerve Growth Factor Receptor (p75) in Dermatofibrosarcoma Protuberans and Other Nonneural Tumors. A Study of 1,150 Tumors and Fetal and Adult Normal Tissues. *Hum Pathol* 2001; 32(9):976-983.
 Smith KL, Menon P and Skelton H. Immunohistochemical Characterization of Dermatofibrosarcoma Protuberans with Practical Applications for Diagnosis and Treatment. *J Am Acad Dermatol* 1998; 38(5 Pt 1):785-786.
 Sondak VK, Cimmino VM, Lowe LM, et al. Dermatofibrosarcoma Protuberans. What is the Best Surgical Approach? *Surg Oncol* 1999; 8(4):183-189.
 Zelger B. Sarcomas Arising in Dermatofibrosarcoma Protuberans. Collision or Illusions? *Am J Surg Pathol* 2001; 25(8):1106-1108.
 Goldblum JR. CD34 Positivity in Fibrosarcomas Which Arise in Dermatofibrosarcoma Protuberans. *Arch Pathol Lab Med* 1995; 119(3):238-241.

Case No. 4, Accession No. 29182

May 2002

Bay Area - Liposarcoma, low grade (3); Atypical lipoma/low grade liposarcoma (1)
Fontana (Kaiser Permanente) - Liposarcoma, well-differentiated, sclerosing type
Fresno (St. Agnes) - Liposarcoma (well differentiated)
Hayward (St. Rose Hospital) - Dedifferentiated liposarcoma

Long Beach - Liposarcoma, well-differentiated (5)
Monterey (Community Hospital of Monterey Peninsula) - Liposarcoma
Monterey Park (Garfield Medical Center) - Pleomorphic liposarcoma
Oakland (Kaiser Permanente) - Pleomorphic liposarcoma
Orange (UCI Medical Center Residents) - Atypical lipomatous tumor
Riverside/Moreno Valley - Atypical lipomatous tumor (well-differentiated liposarcoma) (2)
Sacramento (UCDMC) - Liposarcoma
San Diego (Naval Medical Center) - Well-differentiated liposarcoma, favor sclerosing type (2)
Santa Barbara (Cottage Hospital) - Pleomorphic liposarcoma
Santa Clara - Well-differentiated liposarcoma
Santa Rosa - Well-differentiated (sclerosing) liposarcoma (3)
Ventura (Unilab) - Atypical lipomatous tumor (3)
Alabama (BMC Princeton) - Well-differentiated liposarcoma
Alaska, Anchorage - Atypical lipomatous tumor (well-differentiated liposarcoma)
Colorado (Lutheran Medical Center) - Well-differentiated liposarcoma
Florida (Baptist Medical Center) - Liposarcoma, pleomorphic (4)
Florida (Munroe Regional Medical Center) - Well-differentiated liposarcoma
Florida (Winter Haven Hospital) - Liposarcoma
Illinois, Chicago - Pleomorphic lipoma
Illinois (Evanston Hospital) - Liposarcoma
Indiana (Fort Wayne) - Well-differentiated liposarcoma, abdomen
Louisiana (Louisiana State University Medical Center) - Liposarcoma
Maryland, Bethesda - Liposarcoma with mixed pleomorphic and lipoma-like features (8)
Maryland (Johns Hopkins Hospital Residents) - Well-differentiated liposarcoma (1); Atypical lipomatous tumor/WDLS (1)
Maryland (NIH Pathology Residents) - Liposarcoma, pleomorphic subtype
Massachusetts (Berkshire Medical Center) - Liposarcoma, well-differentiated
Massachusetts (New England Medical Center) - Well-differentiated liposarcoma
Michigan (Oakwood Hospital) - Liposarcoma, well-differentiated, sclerosing variant
Michigan (St. Joseph Mercy Hospital) - Well-differentiated liposarcoma
Missouri (TMC, Kansas City) - Liposarcoma
Nebraska (Creighton Pathology Residents) - Liposarcoma, NOS
New Jersey (Overlook Hospital) - Liposarcoma, well-differentiated (3)
New York (Long Island Jewish Medical Center) - Pleomorphic liposarcoma
New York (Northport VA Medical Center) - Sarcoma consistent with liposarcoma
New York (Stony Brook University Hospital Residents) - Pleomorphic liposarcoma
Pennsylvania (Allegheny General Hospital) - Well-differentiated liposarcoma
Pennsylvania (Lehigh Valley Hospital) - Well-differentiated liposarcoma
Pennsylvania (Memorial Medical Center Residents) - Well-differentiated liposarcoma
Puerto Rico (University of Puerto Rico) - Liposarcoma, well-differentiated
Texas, Lubbock - Sclerosing liposarcoma
Texas (ProPath Services) - Pleomorphic lipoma (1); Liposarcoma, sclerosing type
Texas, San Antonio - Atypical lipomatous tumor
Texas (Scott & White Memorial Hospital) - Well-differentiated sclerosing liposarcoma
West Virginia (Greenbrier Valley Medical Center) - Atypical lipomatous tumor
Wisconsin (Meriter Hospital) - Low grade liposarcoma (atypical lipoma)
Wisconsin, Milwaukee - Liposarcoma
Australia (North Queensland Pathology Group) - Myxoid pleomorphic liposarcoma
Canada (Foothills Medical Center) - Well-differentiated liposarcoma, sclerosing variant
Japan (Yamanashi Medical University) - Liposarcoma, sclerosing type (2); Myxoid type (1)
Netherlands, Amsterdam - Liposarcoma (pleomorphic)
Saudi Arabia (King Khalid University Hospital Study Group) - Well-differentiated sclerosing liposarcoma

Case 4 - Diagnosis:

Well-differentiated liposarcoma, abdomen
T-Y4100, M-88513

Case 4 - References:

- Fletcher CD, Ackerman M, Dal Cin P, et al. Correlation Between Clinicopathological Features and Karyotype in Lipomatous Tumors. A Report of 178 Cases from Chromosome and Morphology (CHAMP) Collaborative Group. *Am J Pathol* 1996; 148(2):623-630.
- Kilpatrick SE. Histologic Prognostication in Soft Tissue Sarcomas. Grading Versus Subtyping or Both? A Comprehensive Review of the Literature with Proposed Practical Guidelines. *Ann Diag Pathol* 1999; 3(1):48-61.
- Azumi N, Curtis J, Kempson RL, et al. Atypical and Malignant Neoplasms Showing Lipomatous Differentiation. A Study of 111 Cases. *Am J Surg Pathol* 1987; 11:161-183.
- Hendricks WH, Chu Y-C, Goldblum JR, et al. Dedifferentiated Liposarcoma. A Clinicopathologic Analysis of 155 Cases with a Proposal for an Expanded Definition of dedifferentiation. *Am J Surg Pathol* 1997; 21(3):271-281.

Case No. 5, Accession No. 29096

May 2002

Bay Area - Myxoid liposarcoma (4)
Fontana (Kaiser Permanente) - Myxoid liposarcoma
Fresno (St. Agnes) - Myxoid liposarcoma
Hayward (St. Rose Hospital) - Myxoid liposarcoma
Long Beach - Myxoid liposarcoma (5)
Monterey (Community Hospital of Monterey Peninsula) - Myxoid liposarcoma (3) vs. myxofibrosarcoma (1)
Monterey Park (Garfield Medical Center) - Myxoid liposarcoma
Oakland (Kaiser Permanente) - Myxoid liposarcoma
Orange (UCI Medical Center Residents) - Myxoid liposarcoma
Riverside/Moreno Valley - Myxoid liposarcoma (2)
Sacramento (UCDMC) - Intramuscular myxoma
San Diego (Naval Medical Center) - Myxoid liposarcoma (1); Fibromyxoid tumor of soft parts, non-ossifying (1)
Santa Barbara (Cottage Hospital) - Myxoid liposarcoma
Santa Clara - Myxoma
Santa Rosa - Myxoid liposarcoma (3)
Ventura (Unilab) - Myxoid liposarcoma (3)
Alabama (BMC Princeton) - Myxoid liposarcoma, knee
Alaska, Anchorage - Myxoid liposarcoma
Colorado (Lutheran Medical Center) - Myxoid liposarcoma
Florida (Baptist Medical Center) - Myxoid liposarcoma (2); Myxoliposarcoma (1); Myxoid liposarcoma vs. myxoid synovial sarcoma (1)
Florida (Munroe Regional Medical Center) - Myxoid liposarcoma
Florida (Winter Haven Hospital) - Myxoid liposarcoma
Illinois, Chicago - Myxoid liposarcoma
Illinois (Evanston Hospital) - Myxoid liposarcoma
Indiana (Fort Wayne) - Myxoid liposarcoma, right lower extremity
Louisiana (Louisiana State University Medical Center) - Atypical myxomatosis
Maryland, Bethesda - Myxoid liposarcoma (8)
Maryland (Johns Hopkins Hospital Residents) - Myxoid liposarcoma (2)
Maryland (NIH Pathology Residents) - Myxoid liposarcoma
Massachusetts (Berkshire Medical Center) - Myxoid chondrosarcoma, extraskeletal
Massachusetts (New England Medical Center) - Myxoid liposarcoma
Michigan (Oakwood Hospital) - Myxoid liposarcoma
Michigan (St. Joseph Mercy Hospital) - Myxoid (round cell) liposarcoma
Missouri (TMC, Kansas City) - Aggressive angiomyxoma
Nebraska (Creighton Pathology Residents) - Myxoid liposarcoma
New Jersey (Overlook Hospital) - Myxoid liposarcoma (3)

New York (Long Island Jewish Medical Center) - Myxoid liposarcoma
New York (Northport VA Medical Center) - Myxoid liposarcoma
New York (Stony Brook University Hospital Residents) - Myxoid liposarcoma
Pennsylvania (Allegheny General Hospital) - Myxoid variant of extraskeletal chondroma
Pennsylvania (Lehigh Valley Hospital) - Myxoid liposarcoma
Pennsylvania (Memorial Medical Center Residents) - Myxoid liposarcoma
Puerto Rico (University of Puerto Rico) - Myxoid liposarcoma
Texas, Lubbock - Myxoid liposarcoma
Texas (ProPath Services) - Myxoid liposarcoma (2)
Texas, San Antonio - Myxoid liposarcoma
Texas (Scott & White Memorial Hospital) - Myxoid liposarcoma
West Virginia (Greenbrier Valley Medical Center) - Rhabdomyosarcoma
Wisconsin (Meriter Hospital) - Myxoid liposarcoma
Wisconsin, Milwaukee - Myxoid liposarcoma
Australia (North Queensland Pathology Group) - Myxoid chondrosarcoma. DDx: Myxoid liposarcoma
Canada (Foothills Medical Center) - Myxoid liposarcoma
Japan (Yamanashi Medical University) - Myxoid liposarcoma (2); Myxoid liposarcoma (1)
Netherlands, Amsterdam - Liposarcoma (myxoid?)
Saudi Arabia (King Khalid University Hospital Study Group) - Myxoid liposarcoma

Case 5 - Diagnosis:

Myxoid liposarcoma, lower extremity
 T-Y1800, M-88523

Case 5 - References:

Hashimoto H, Daimaru Y and Enjoji M. S-100 Protein Distribution in Liposarcoma. An Immunoperoxidase Study with Special Reference to the Distinction of Liposarcoma from Myxoid Malignant Fibrous Histiocytoma. *Virchows Arch (A)* 1984; 405(1):1-10.
 O'Connor ME and Snover DC. Liposarcoma. A Review of Factors Influencing Prognosis. *Am Surg* 1983; 49(7):379-384.
 Reszel PA, Soul EH and Coventry MB. Liposarcoma of the Extremities and Limb Girdles. A Study of Two Hundred Twenty-Two Cases. *J Bone and Joint Surg* 1966; 48(2):229-244.
 Evans HL. Liposarcoma. A Study of 55 Cases with Reassessment of Its Classification. *Am J Surg Pathol* 1979; 3(6):507-523.
 Smith TA, Easley KA and Goldblum JR. Myxoid Round Cell Liposarcoma of the Extremities, A Clinicopathologic Study of 29 Cases with Particular Attention to Extent of Round Cell Liposarcoma. *Am J Surg Pathol* 1996; 20(2):171-180.

Case No. 6, Accession No. 28888

May 2002

Bay Area - Malignant fibrous histiocytoma (3); (? triton tumor)
Fontana (Kaiser Permanente) - Malignant peripheral nerve sheath tumor
Fresno (St. Agnes) - Malignant fibrous histiocytoma (pleomorphic)
Hayward (St. Rose Hospital) - Rhabdomyosarcoma (marks as dendritic cell tumor)
Long Beach - Malignant fibrous histiocytoma (5)
Monterey (Community Hospital of Monterey Peninsula) - Malignant fibrous histiocytoma
Monterey Park (Garfield Medical Center) - Malignant fibrous histiocytoma (pleomorphic)
Oakland (Kaiser Permanente) - High grade sarcoma consistent with malignant fibrous histiocytoma
Orange (UCI Medical Center Residents) - Malignant fibrous histiocytoma
Riverside/Moreno Valley - Pleomorphic malignant fibrous histiocytoma vs. malignant peripheral nerve sheath tumor (1); Malignant fibrous histiocytoma (1)
Sacramento (UCDMC) - Myxoid malignant fibrous histiocytoma
San Diego (Naval Medical Center) - Pleomorphic malignant fibrous histiocytoma (1); Pleomorphic liposarcoma (1)
Santa Barbara (Cottage Hospital) - High grade sarcoma, possible malignant peripheral nerve sheath tumor (1)
Santa Clara - Pleomorphic liposarcoma
Santa Rosa - Malignant fibrous histiocytoma, myxoid type (3)

Ventura (Unilab) - Malignant fibrous histiocytoma (3)
Alabama (BMC Princeton) - Malignant fibrous histiocytoma
Alaska, Anchorage - Pleomorphic malignant fibrous histiocytoma
Colorado (Lutheran Medical Center) - Malignant fibrous histiocytoma
Florida (Baptist Medical Center) - High grade sarcoma (favor malignant fibrous histiocytoma) (1); Malignant fibrous histiocytoma (pleomorphic) (1); Malignant peripheral nerve sheath tumor with epithelioid features (1); Malignant fibrous histiocytoma (1)
Florida (Munroe Regional Medical Center) - Malignant fibrous histiocytoma
Florida (Winter Haven Hospital) - Liposarcoma
Illinois, Chicago - Malignant fibrous histiocytoma
Illinois (Evanston Hospital) - Pleomorphic malignant fibrous histiocytoma
Indiana (Fort Wayne) - Pleomorphic sarcoma (malignant fibrous histiocytoma), abdominal wall
Louisiana (Louisiana State University Medical Center) - Malignant fibrous histiocytoma
Maryland, Bethesda - Malignant fibrous histiocytoma (8)
Maryland (Johns Hopkins Hospital Residents) - Malignant fibrous histiocytoma, likely myxoid subtype (1); Malignant fibrous histiocytoma (1)
Maryland (NIH Pathology Residents) - Malignant fibrous histiocytoma
Massachusetts (Berkshire Medical Center) - Malignant fibrous histiocytoma
Massachusetts (New England Medical Center) - Pleomorphic sarcoma. DDx: Malignant peripheral nerve sheath tumor or pleomorphic leiomyosarcoma
Michigan (Oakwood Hospital) - High grade pleomorphic sarcoma
Michigan (St. Joseph Mercy Hospital) - High grade sarcoma, favor malignant fibrous histiocytoma
Missouri (TMC, Kansas City) - Malignant fibrous histiocytoma
Nebraska (Creighton Pathology Residents) - Myxoid malignant fibrous histiocytoma
New Jersey (Overlook Hospital) - Dedifferentiated liposarcoma (3)
New York (Long Island Jewish Medical Center) - Malignant fibrous histiocytoma
New York (Northport VA Medical Center) - Malignant fibrous histiocytoma
New York (Stony Brook University Hospital Residents) - Malignant fibrous histiocytoma
Pennsylvania (Allegheny General Hospital) - High grade sarcoma, malignant fibrous histiocytoma type
Pennsylvania (Lehigh Valley Hospital) - Neurogenic sarcoma
Pennsylvania (Memorial Medical Center Residents) - Malignant fibrous histiocytoma, pleomorphic
Puerto Rico (University of Puerto Rico) - Malignant fibrous histiocytoma
Texas, Lubbock - Neurofibrosarcoma
Texas (Propath Services) - Malignant fibrous histiocytoma (1); Malignant fibrous histiocytoma (myxoid variant) (1)
Texas, San Antonio - Malignant fibrous histiocytoma
Texas (Scott & White Memorial Hospital) - Malignant fibrous histiocytoma
West Virginia (Greenbrier Valley Medical Center) - Pleomorphic malignant fibrohistiocytoma
Wisconsin (Meriter Hospital) - Pleomorphic sarcoma, grade 3 (3)
Wisconsin, Milwaukee - Malignant fibrous histiocytoma
Australia (North Queensland Pathology Group) - Pleomorphic malignant fibrohistiocytoma
Canada (Foothills Medical Center) - Pleomorphic malignant fibrous histiocytoma
Japan (Yamanashi Medical University) - Clear cell sarcoma ? (1); Malignant fibrous histiocytoma (1)
Netherlands, Amsterdam - Sarcoma, NOS (malignant fibrous histiocytoma?)
Saudi Arabia (King Khalid University Hospital Study Group) - Epithelioid malignant peripheral nerve sheath tumour (4); Malignant and pleomorphic fibrous histiocytoma (2)

Case 6 - Diagnosis:

Pleomorphic high grade sarcoma (with phenotype of so-called MFH), abdominal wall
 Director's Note: Some slides showed vacuolated elements suggestive of lipoblasts. (drc)
 T-Y4100, M-88023

Case 6 - References:

Fletcher CD. Pleomorphic Malignant Fibrous Histiocytoma. Fact or Fiction? A Critical Reappraisal Based on 159 Tumors Diagnosed as Pleomorphic Sarcoma. *Am J Surg Pathol* 1992; 16(3):213-228.
 Schurch W, Begin LR, Seemayer TA, et al. Pleomorphic Soft Tissue Myogenic Sarcomas of Adulthood. A Reappraisal in the Mid-1990s. *Am J Surg Pathol* 1996; 20(2):131-147.

Wesche WA, Fletcher CD, Dias P, et al. Immunohistochemistry of MyoD1 in Adult Pleomorphic Soft Tissue Sarcomas. *Am J Surg Pathol* 1995; 19(3):261-269.

Costa MJ. Malignant Fibrous Histiocytoma Phenotype in Pleomorphic Sarcoma Differentiation in Recurrent Disease. *Arch Pathol Lab Med* 1994; 118(2):160-164.

McCormick D, Mentzel T, Beham A, et al. Dedifferentiated Liposarcoma. Clinicopathologic Analysis of 32 Cases Suggesting a Better Prognostic Subgroup Among Pleomorphic Sarcomas. *Am J Surg Pathol* 1995; 19(10):1216-1217.

Case No. 7, Accession No. 29118

May 2002

Bay Area - Synovial sarcoma (3)

Fontana (Kaiser Permanente) - Synovial sarcoma

Fresno (St. Agnes) - Synovial sarcoma (monophasic)

Hayward (St. Rose Hospital) - Irradiated epithelioid sarcoma

Long Beach - Synovial sarcoma (5)

Monterey (Community Hospital of Monterey Peninsula) - Synovial sarcoma

Monterey Park (Garfield Medical Center) - Fibrosarcoma with heterologous components

Oakland (Kaiser Permanente) - Synovial sarcoma

Orange (UCI Medical Center Residents) - Synovial sarcoma

Riverside/Moreno Valley - Synovial sarcoma (1); Synovial sarcoma, monophasic (1)

Sacramento (UCDMC) - Synovial sarcoma

San Diego (Naval Medical Center) - Synovial sarcoma (2)

Santa Barbara (Cottage Hospital) - Monophasic synovial sarcoma

Santa Clara - Synovial sarcoma

Santa Rosa - Monophasic fibrous synovial sarcoma (3)

Ventura (Unilab) - Malignant peripheral nerve sheath tumor (1); Ewing's sarcoma (PNET) (1)

Alabama (BMC Princeton) - Monophasic synovial sarcoma

Alaska, Anchorage - Synovial sarcoma

Colorado (Lutheran Medical Center) - ? epithelioid sarcoma

Florida (Baptist Medical Center) - Synovial cell sarcomas vs. nerve sheath tumor (1); Synovial sarcoma (monophasic) (1); Synovial sarcoma (2);

Florida (Munroe Regional Medical Center) - Synovial sarcoma

Florida (Winter Haven Hospital) - Low grade fibromyxoid sarcoma

Illinois, Chicago - Synovial sarcoma

Illinois (Evanston Hospital) - Synovial sarcoma

Indiana (Fort Wayne) - Monophasic fibrous synovial sarcoma, left anterior hip

Louisiana (Louisiana State University Medical Center) - Favor synovial sarcoma

Maryland, Bethesda - Synovial sarcoma (8)

Maryland (Johns Hopkins Hospital Residents) - Synovial sarcoma with treatment effect (1); Synovial sarcoma (1)

Maryland (NIH Pathology Residents) - Synovial sarcoma, monophasic

Massachusetts (Berkshire Medical Center) - Synovial sarcoma

Massachusetts (New England Medical Center) - Synovial sarcoma, biphasic

Michigan (Oakwood Hospital) - Synovial sarcoma

Michigan (St. Joseph Mercy Hospital) - Synovial sarcoma

Missouri (TMC, Kansas City) - Extraskeletal myxoid chondrosarcoma

Nebraska (Creighton Pathology Residents) - Synovial sarcoma, monophasic

New Jersey (Overlook Hospital) - Synovial sarcoma (3)

New York (Long Island Jewish Medical Center) - Synovial sarcoma, monophasic type

New York (Northport VA Medical Center) - Monophasic synovial sarcoma

New York (Stony Brook University Hospital Residents) - Synovial sarcoma, monophasic

Pennsylvania (Allegheny General Hospital) - Synovial sarcoma

Pennsylvania (Lehigh Valley Hospital) - Neurogenic sarcoma

Pennsylvania (Memorial Medical Center Residents) - Monophasic synovial

Puerto Rico (University of Puerto Rico) - Monophasic synovial sarcoma

Texas, Lubbock - Synoviosarcoma
Texas (ProPath Services) - Synovial cell sarcoma (2)
Texas, San Antonio - Extraskelatal Ewing's sarcoma
Texas (Scott & White Memorial Hospital) - Monophasic synovial sarcoma
West Virginia (Greenbrier Valley Medical Center) - Synovial sarcoma
Wisconsin (Meriter Hospital) - Monophasic (spindle cell) synovial sarcoma
Wisconsin, Milwaukee - Synovial sarcoma
Australia (North Queensland Pathology Group) - Extraskelatal osteosarcoma. DDx: Synovial sarcoma
Canada (Foothills Medical Center) - Synovial sarcoma
Japan (Yamanashi Medical University) - Synovial sarcoma (2)
Netherlands, Amsterdam - Synovial sarcoma
Saudi Arabia (King Khalid University Hospital Study Group) - Monophasic synovial sarcoma

Case 7 - Diagnosis:

Calcifying monophasic synovial sarcoma, hip
 T-Y1500, M-90403

Case 7 - References:

Sanchez RJM, Alcaraz MM, Quinones TD, et al. Extensively Calcified Synovial Sarcoma. *Skeletal Radiol* 1997; 26(11):671-673.
 Blacksin MF, Siegel JR, Benevenia J, et al. Synovial Sarcoma. Frequency of Nonaggressive MR Characteristics. *J Comput Assist Tomogr* 1997; 21(5):785-789.
 Blacksin M, Adesokan A and Benevenia J. Case Report 871. Synovial Sarcoma, Monophasic Type. *Skeletal Radiol* 1994; 23(7):589-591.
 Clark J Rocques PJ, Crew AJ, et al. Identification of Novel Genes, SYT and SSX, Involved in the t(x;18)(p11.2;q11.2) Translocation Found in Human Synovial Sarcoma. *Genet* 1994; 7(4):502-508.
 Renwick PJ, Reeves BR, Dal Cin P, et al. Two Categories of Synovial Sarcoma Defined by Divergent Chromosome Translocation Breakpoints in Xp11.2 with Implications for the Histologic Subclassification of Synovial Sarcoma. *Cytogenet Cell Genet* 1995; 70(1-2):58-63.
 Ishida T, Lijima T, Moriyama S, et al. Intra-Articular Calcifying Synovial Sarcoma Mimicking Synovial Chondromatosis. *Skeletal Radiol* 1996; 25(8):766-769.
 Milchgrub S, Ghandur-Mnaymneh L, Dorfman HD, et al. Synovial Sarcoma with Extensive Osteoid and Bone Formation. *Am J Surg Pathol* 1993; 17(4):357-363.

Case No. 8, Accession No. 29073

May 2002

Bay Area - Leiomyoma (3)
Fontana (Kaiser Permanente) - Leiomyosarcoma
Fresno (St. Agnes) - Leiomyoma (? parasitic vs. benign metastasizing)
Hayward (St. Rose Hospital) - Neurofibroma
Long Beach - Leiomyoma (3); Leiomyosarcoma (2)
Monterey (Community Hospital of Monterey Peninsula) - Leiomyoma
Monterey Park (Garfield Medical Center) - Leiomyosarcoma vs. fibrosarcoma
Oakland (Kaiser Permanente) - Leiomyosarcoma
Orange (UCI Medical Center Residents) - Leiomyoma
Riverside/Moreno Valley - Leiomyoma (smooth muscle tumor of uncertain malignant potential) (1); Smooth muscle tumor of uncertain malignant potential (1)
Sacramento (UCDMC) - Leiomyoma
San Diego (Naval Medical Center) - Smooth muscle tumor of uncertain malignant potential (1); Fibromatosis (1)
Santa Barbara (Cottage Hospital) - Leiomyoma of uncertain malignant potential
Santa Clara - Leiomyoma
Santa Rosa - Retroperitoneal leiomyoma (3)
Ventura (Unilab) - Leiomyoma (3)
Alabama (BMC Princeton) - Leiomyoma
Alaska, Anchorage - Retroperitoneal smooth muscle tumor, undetermined malignant potential

Colorado (Lutheran Medical Center) - Low grade leiomyosarcoma vs. leiomyoma
Florida (Baptist Medical Center) - Leiomyoma vs. leiomyosarcoma (did not see any mitoses) (1); Leiomyosarcoma (1);
 Leiomyosarcoma of soft tissue, low grade (1); Leiomyoma (1)
Florida (Munroe Regional Medical Center) - Gastrointestinal stromal tumor
Florida (Winter Haven Hospital) - Leiomyoma
Illinois, Chicago - Leiomyoma
Illinois (Evanston Hospital) - Leiomyoma vs. smooth muscle tumor of uncertain malignant potential
Indiana (Fort Wayne) - Retroperitoneal leiomyoma
Louisiana (Louisiana State University Medical Center) - Cellular leiomyoma
Maryland, Bethesda - Leiomyoma (2); Fibromatosis (5); GI stromal tumor (1)
Maryland (Johns Hopkins Hospital Residents) - Leiomyoma (1); Vascular leiomyoma (1)
Maryland (NIH Pathology Residents) - Cellular leiomyoma
Massachusetts (Berkshire Medical Center) - Leiomyosarcoma, low grade
Massachusetts (New England Medical Center) - Cellular leiomyoma
Michigan (Oakwood Hospital) - Leiomyoma
Michigan (St. Joseph Mercy Hospital) - Leiomyoma
Missouri (TMC, Kansas City) - Leiomyoma
Nebraska (Creighton Pathology Residents) - Smooth muscle tumor with uncertain malignant potential
New Jersey (Overlook Hospital) - Leiomyoma (3)
New York (Long Island Jewish Medical Center) - Leiomyoma
New York (Northport VA Medical Center) - Leiomyoma
New York (Stony Brook University Hospital Residents) - Parasitic leiomyoma
Pennsylvania (Allegheny General Hospital) - Smooth muscle tumor of uncertain malignant potential
Pennsylvania (Lehigh Valley Hospital) - Leiomyosarcoma
Pennsylvania (Memorial Medical Center Residents) - Epithelioid leiomyoma
Puerto Rico (University of Puerto Rico) - Leiomyoma
Texas, Lubbock - Leiomyoma
Texas (ProPath Services) - Leiomyoma (1); Leiomyoma of deep soft tissue (1)
Texas, San Antonio - Retroperitoneal leiomyoma
Texas (Scott & White Memorial Hospital) - Solitary fibrous tumor
West Virginia (Greenbrier Valley Medical Center) - Leiomyoma
Wisconsin (Meriter Hospital) - GIST vs. leiomyoma
Wisconsin, Milwaukee - Leiomyoma
Australia (North Queensland Pathology Group) - Leiomyoma
Canada (Foothills Medical Center) - Leiomyoma of deep soft tissue
Japan (Yamanashi Medical University) - Leiomyosarcoma, low grade (1); Leiomyoma (1); Synovial sarcoma (1)
Netherlands, Amsterdam - Benign leiomyoma
Saudi Arabia (King Khalid University Hospital Study Group) - Leiomyoma

Case 8 - Diagnosis:

Smooth muscle neoplasm of uncertain malignant potential, retroperitoneum

Director's Note: Although histologically benign, smooth muscle tumors of the retroperitoneum are not to be trusted. (drc)

T-Y4600, M-88900

Case 8 – References:

- Ranchod M and Kempson RL. Smooth Muscle Tumors of the Gastrointestinal Tract and Retroperitoneum. A Pathologic Analysis of 100 Cases. *Cancer* 1977; 39(1):255-262.
- Kilpatrick SE, Mentzel T, and Fletcher CDM. Leiomyoma of Deep Soft Tissue. Clinicopathologic Analysis of a Series. *Am J Surg Pathol* 1994; 18(6):576-582.
- Watanabe K, Kusakabe T, Hoshi N, et al. h-Caldesmon in Leiomyosarcoma and Tumors of Smooth Muscle Cell-Like Differentiation. Its Specific Expression in Smooth Muscle Cell Tumor. *Hum Pathol* 1999; 30(4):392-396.

Bay Area - Leiomyosarcoma (consider myosarcoma/rhabdomyosarcoma) (3)
Fontana (Kaiser Permanente) - Rhabdomyosarcoma
Fresno (St. Agnes) - Rhabdomyosarcoma
Hayward (St. Rose Hospital) - Leiomyosarcoma
Long Beach - Leiomyosarcoma (5)
Monterey (Community Hospital of Monterey Peninsula) - Leiomyosarcoma (3); vs. spindle cell rhabdomyosarcoma (1)
Monterey Park (Garfield Medical Center) - High grade sarcoma
Oakland (Kaiser Permanente) - Leiomyosarcoma
Orange (UCI Medical Center Residents) - Rhabdomyosarcoma
Riverside/Moreno Valley - Spindle cell type of embryonal rhabdomyosarcoma (1); Embryonal rhabdomyosarcoma (1)
Sacramento (UCDMC) - Leiomyosarcoma
San Diego (Naval Medical Center) - Rhabdomyosarcoma, spindle cell type (1); Leiomyosarcoma (1)
Santa Barbara (Cottage Hospital) - Embryonal rhabdomyosarcoma, spindle cell type
Santa Clara - Myosarcoma
Santa Rosa - Leiomyosarcoma vs. myofibroblastic sarcoma (3)
Ventura (Unilab) - Leiomyosarcoma (2); Infantile fibrosarcoma (1)
Alabama (BMC Princeton) - Leiomyosarcoma
Alaska, Anchorage - Embryonal rhabdomyosarcoma (spindled type vs. botryoid type)
Colorado (Lutheran Medical Center) - Recurrent/metastatic botryoid (embryonal) rhabdomyosarcoma
Florida (Baptist Medical Center) - High grade sarcoma (favor leiomyosarcoma) ? muscle specific actin done (1); Fibrosarcoma (1);
 Spindle cell type of an embryonal rhabdomyosarcoma (1); Rhabdomyosarcoma (1)
Florida (Munroe Regional Medical Center) - Rhabdomyosarcoma
Florida (Winter Haven Hospital) - Malignant schwannoma
Illinois, Chicago - Post operative spindle cell nodule
Illinois (Evanston Hospital) - Spindle cell rhabdomyosarcoma
Indiana (Fort Wayne) - Recurrent leiomyosarcoma, abdominal wall (origin in urinary bladder)
Louisiana (Louisiana State University Medical Center) - Rhabdomyosarcoma
Maryland, Bethesda - High grade sarcoma (7); Post operative spindle cell nodule (1)
Maryland (Johns Hopkins Hospital Residents) - Favor leiomyosarcoma (1); Favor rhabdomyosarcoma (1)
Maryland (NIH Pathology Residents) - Embryonal rhabdomyosarcoma, myxoid
Massachusetts (Berkshire Medical Center) - Embryonal rhabdomyosarcoma
Massachusetts (New England Medical Center) - Leiomyosarcoma
Michigan (Oakwood Hospital) - Rhabdomyosarcoma, spindle cell embryonal variant
Michigan (St. Joseph Mercy Hospital) - Embryonal rhabdomyosarcoma
Missouri (TMC, Kansas City) - Fibromatosis
Nebraska (Creighton Pathology Residents) - Embryonal rhabdomyosarcoma
New Jersey (Overlook Hospital) - Leiomyosarcoma (3)
New York (Long Island Jewish Medical Center) - Rhabdomyosarcoma, embryonal type
New York (Northport VA Medical Center) - Leiomyosarcoma
New York (Stony Brook University Hospital Residents) - Postoperative spindle-cell nodule
Pennsylvania (Allegheny General Hospital) - Spindle cell sarcoma favor rhabdomyosarcoma
Pennsylvania (Lehigh Valley Hospital) - Embryonal rhabdomyosarcoma
Pennsylvania (Memorial Medical Center Residents) - Rhabdomyosarcoma
Puerto Rico (University of Puerto Rico) - Fibrosarcoma
Texas, Lubbock - Leiomyosarcoma
Texas (ProPath Services) - Metastatic botryoid rhabdomyosarcoma (1); Fibrosarcoma (1)
Texas, San Antonio - Embryonal rhabdomyosarcoma, spindle cell type
Texas (Scott & White Memorial Hospital) - Recurrent rhabdomyosarcoma
West Virginia (Greenbrier Valley Medical Center) - Fibromatosis
Wisconsin (Meriter Hospital) - Leiomyosarcoma
Wisconsin, Milwaukee - Rhabdomyosarcoma

Australia (North Queensland Pathology Group) - Leiomyosarcoma

Canada (Foothills Medical Center) - Leiomyosarcoma

Japan (Yamanashi Medical University) - Leiomyosarcoma, high grade (2); Spindle cell rhabdomyosarcoma (1)

Netherlands, Amsterdam - Leiomyosarcoma, recurrence

Saudi Arabia (King Khalid University Hospital Study Group) - Leiomyosarcoma

Case 9 - Diagnosis:

Embryonal rhabdomyosarcoma, spindle cell type, abdominal wall

T-Y4100, M-89103

Case 9 – References:

Edel G, Wuisman P and Eriemann R. Spindle Cell (Leiomyomatous) Rhabdomyosarcoma, A Rare Variant of Embryonal Rhabdomyosarcoma. *Pathol Res Pract* 1993; 189(1):107-110

Cavazzana AO, Schmidt D, Ninfo V, et al. Spindle Cell Rhabdomyosarcoma. A Prognostically Favorable Variant of Rhabdomyosarcoma. *Am J Surg Pathol* 1992; 16(3):229-235.

Spindle Cell Rhabdomyosarcoma. Histologic Variant of Embryonal Rhabdomyosarcoma with Association to Favorable Prognosis. *Curr Top Pathol* 1995; 89:261-272.

Scrabble H, Witte D, Shimada H, et al. Molecular Differential Pathology of Rhabdomyosarcoma. *Genes Chrom Cancer* 1989; 1(1):23-35.

Cui S, Hano H, Harada T, Takai S, et al. Evaluation of New Monoclonal Anti-Myo D1 and Anti-Myogenin Antibodies for the Diagnosis of Rhabdomyosarcoma. *Pathol Int* 1999; 29:62-68.

Case No. 10, Accession No. 29193

May 2002

Bay Area - Dermatofibrosarcoma protuberans (DFSP) (2); Angiosarcoma (1)

Fontana (Kaiser Permanente) - Neurofibroma

Fresno (St. Agnes) - Myofibroblastoma

Hayward (St. Rose Hospital) - Solitary fibrous tumor

Long Beach - Solitary fibrous tumors (5)

Monterey (Community Hospital of Monterey Peninsula) - Angiosarcoma vs. infantile hemangioendothelioma (1)

Monterey Park (Garfield Medical Center) - Solitary fibrous tumor

Oakland (Kaiser Permanente) - Giant cell fibroblastoma

Orange (UCI Medical Center Residents) - Infantile myofibromatosis

Riverside/Moreno Valley - Solitary fibrous tumor (2)

Sacramento (UCDMC) - Solitary fibrous tumor/hemangiopericytoma

San Diego (Naval Medical Center) - Dermatofibrosarcoma protuberans (2); Inflammatory myofibroblastic tumor (4); Spindle cell lipoma (3);

Santa Barbara (Cottage Hospital) - Benign soft tissue tumor consistent with myofibroma

Santa Clara - Dermatofibrosarcoma protuberans

Santa Rosa - Infantile fibromatosis (3)

Ventura (Unilab) - Spindle cell hemangioma (3)

Alabama (BMC Princeton) - Solitary fibrous tumor

Alabama (BMC Princeton) - Solitary fibrous tumor

Alaska, Anchorage - Dermatofibrosarcoma protuberans

Colorado (Lutheran Medical Center) - ? giant cell fibroblastoma

Florida (Baptist Medical Center) - Epithelioid smooth muscle tumor (favor benign) (1); Hemangiopericytoma (1); Myxoid fetal rhabdomyoma (1); Myofibroblastoma/juvenile fibromatosis (1)

Florida (Munroe Regional Medical Center) - Infantile fibromatosis

Florida (Winter Haven Hospital) - Neurofibrosarcoma

Illinois, Chicago - Giant cell fibroblastoma

Illinois (Evanston Hospital) - Dermatofibrosarcoma protuberans

Indiana (Fort Wayne) - Hemangiopericytoma/solitary fibrous tumor

Louisiana (Louisiana State University Medical Center) - Fibrohistiocytic tumor

Maryland, Bethesda - Hemangiopericytoma (8)

Maryland (Johns Hopkins Hospital Residents) - Dermatofibrosarcoma protuberans/giant cell fibroblastoma vs. infantile hemangiopericytoma (1); Infantile myofibroblastoma (1)
Maryland (NIH Pathology Residents) - Dermatofibrosarcoma protuberans
Massachusetts (Berkshire Medical Center) - Infantile hemangiopericytoma
Massachusetts (New England Medical Center) - Dermatofibrosarcoma protuberans. DDx: Nodular fasciitis
Michigan (Oakwood Hospital) - Giant cell fibroblastoma
Michigan (St. Joseph Mercy Hospital) - Solitary fibrous tumor (1); Myxoid dermatofibrosarcoma protuberans (1); Giant cell fibroblastoma (1)
Missouri (TMC, Kansas City) - Dermatofibrosarcoma protuberans
Nebraska (Creighton Pathology Residents) - Hemangioepithelioma
New Jersey (Overlook Hospital) - Kaposiform hemangioendothelioma (3)
New York (Long Island Jewish Medical Center) - Solitary fibrous tumor
New York (Northport VA Medical Center) - Giant cell fibroblastoma
New York (Stony Brook University Hospital Residents) - Dermatofibrosarcoma protuberans
Pennsylvania (Allegheny General Hospital) - Solitary fibrous tumor
Pennsylvania (Lehigh Valley Hospital) - Infantile myofibromatosis
Pennsylvania (Memorial Medical Center Residents) - Dermatofibrosarcoma protuberans
Puerto Rico (University of Puerto Rico) - Fibromatosis
Texas, Lubbock - Dermatofibrosarcoma protuberans
Texas (ProPath Services) - Infantile fibromatosis (2)
Texas, San Antonio - Benign fibrous histiocytoma
Texas (Scott & White Memorial Hospital) - Infantile hemangiopericytoma
West Virginia (Greenbrier Valley Medical Center) - Myofibroma
Wisconsin (Meriter Hospital) - Dermatofibrosarcoma protuberans, rule out infantile hemangiopericytoma
Wisconsin, Milwaukee - Giant cell fibroblastoma
Australia (North Queensland Pathology Group) - Solitary fibrous tumour
Canada (Foothills Medical Center) - Dermatofibrosarcoma protuberans
Japan (Yamanashi Medical University) - Liposarcoma, dedifferentiated (1); Solitary fibrous tumor (1); Nodular fasciitis (1)
Netherlands, Amsterdam - Dermatofibrosarcoma protuberans
Saudi Arabia (King Khalid University Hospital Study Group) - Infantile fibromatosis

Case 10 - Diagnosis:

Dermatofibrosarcoma protuberans (DFSP), leg
 T-Y9400, M-91501

Case 10 - References:

Goldblum JR. CD34 Positivity in Fibrosarcomas Which Arise in Dermatofibrosarcoma Protuberans. *Arch Pathol Lab* 1995; 119(3):238-241.
 Prieto VG, Reed JA and Shea CR. CD34 Immunoreactivity Distinguishes Between Scar Tissue and Residual Tumor in Re-Excisional Specimens of Dermatofibrosarcoma Protuberans. *J Cutan Pathol* 1994; 21(4):324-329.
 Kutzner H. Expression of the Human Progenitor Cell Antigen CD34 (HPCA-1) Distinguishes Dermatofibrosarcoma Protuberans from Fibrous Histiocytoma in Formalin-Fixed, Paraffin-Embedded Tissue. *J Am Acad Dermatol* 1993; 28(4):613-617.
 Connelly JH and Evans HL. Dermatofibrosarcoma Protuberans. A Clinicopathologic Review with Emphasis on Fibrosarcomatous Areas. *Am J Surg Pathol* 1992; 16(10):921-925.
 Sato N, Kimura K and Tomita Y. Recurrent Dermatofibrosarcoma Protuberans with Myxoid and Fibrosarcomatous Changes Paralleled by Loss of CD34 Expression. *J Dermatol* 1995; 22(9):665-672.
 Perry DA, Schultz LR and Dehner LP. Giant Cell Fibroblastoma with Dermatofibrosarcoma Protuberans-Like Transformation. *J Cutan Pathol* 1993; 20(5):451-454.