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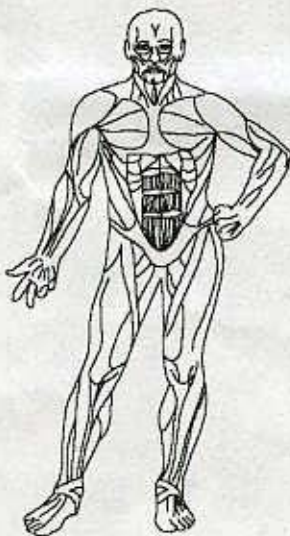


CALIFORNIA
TUMOR TISSUE REGISTRY

“SOFT TISSUE PATHOLOGY”

Study Cases, Subscription A

October, 2003



California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
Loma Linda University School of Medicine
11021 Campus Avenue, AH 335
Loma Linda, California 92350
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E-mail: cttr@linkline.com
Web page: www.cttr.org
Web site & Case of the Month: www.cttr.org

Target audience:

Practicing pathologists and pathology residents.

Goal:

To acquaint the participant with the histologic features of a variety of benign and malignant neoplasms and tumor-like conditions.

Objectives:

The participant will be able to recognize morphologic features of a variety of benign and malignant neoplasms and tumor-like conditions and relate those processes to pertinent references in the medical literature.

Educational methods and media:

Review of representative glass slides with associated histories.
Feedback on consensus diagnoses from participating pathologists.
Listing of selected references from the medical literature.

Principal faculty:

Weldon K. Bullock, MD
Donald R. Chase, MD

CME Credit:

Loma Linda University School of Medicine designates this continuing medical education activity for up to 2 hours of Category I of the Physician's Recognition Award of the American Medical Association.
CME credit is offered for the subscription year only.

Accreditation:

Loma Linda University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians.

Contributor: Xuedong Wang, M.D.
Pasadena, CA

Case No. 1 - October 2003

Tissue from: Posterior chest wall

Accession #29626

Clinical Abstract:

While leaning forward with her arm extended, this 64-year-old female noticed a mass in the infrascapular region of the left posterior chest wall. An MRI showed a 7-cm solid mass. The findings were not characteristic of a lipoma and were interpreted as a possible sarcoma. The mass did not involve the thoracic cavity and appeared to be adjacent to the latissimus dorsi muscle.

Gross Pathology:

The 96 gram ovoid fragment of soft tissue measured 11.0 x 7.0 x 3.5 cm. The cut surface showed diffuse dense fibrous pale pink stroma interspersed with lobules of golden yellow adipose tissue.

SPECIAL STUDIES:

Vimentin	positive
CD34	positive
Actin	negative
Desmin	negative
S100	negative
AE1/3	negative

Contributor: Gerald Dagleish, M.D.
Simi Valley, CA

Case No. 2 - October 2003

Tissue from: Back

Accession #29581

Clinical Abstract:

A 63-year-old male was found to have a large mass in his upper back.

Gross Pathology:

The 6.5 x 5.3 x 4.0 cm portion of soft yellow adipose tissue appeared encapsulated. The cut surface showed soft yellow tissue with firmer pale gray-white areas.

SPECIAL STUDIES:

CD34	positive
Vimentin	positive
S100	negative

**Contributor: Mark Janssen, M.D.
Anaheim, CA**

Case No. 3 - October 2003

Tissue from: Retroperitoneum

Accession #29692

Clinical Abstract:

After complaining of early satiety, this 45-year-old female was found to have an abdominal mass. CT scan showed a mass in the right retroperitoneum displacing the colon, duodenum and pancreas.

Gross Pathology:

The 3436 gram en bloc resection included a fatty mass, kidney and part of the adrenal gland.

**Contributor: LLUMC Pathology Group (dc)
Loma Linda, CA**

Case No. 4 - October 2003

Tissue from: Left thigh

Accession #29638

Clinical Abstract:

Over the past year, this 37-year-old female had a left posterior thigh mass which doubled in size.

Gross Pathology:

The 28 x 18 x 10 cm resection specimen contained a well-circumscribed 22.0 x 16.0 x 7.0 cm multicolored, multilobulated mass. The cut surface was mucoid with scattered cysts.

Contributor: Mark Janssen, M.D.
Anaheim, CA

Case No. 5 - October 2003

Tissue from: Right kidney

Accession #29585

Clinical Abstract:

A diabetic hypertensive 58-year-old female was noted to have proteinuria and microscopic hematuria. Renal ultrasound and CT scan showed an exophytic solid right renal mass arising from the lower pole of the right kidney.

Gross Pathology:

A 3.0 cm mass was attached to the lower pole of the kidney.

SPECIAL STUDIES:

HMB45	positive
SMA	positive

Contributor: Donna Kell, M.D.
Santa Barbara, CA

Case No. 6 - October 2003

Tissue from: Right kidney

Accession #29630

Clinical Abstract:

This 67-year-old female had a right kidney mass.

Gross Pathology:

The 232 gram kidney had a 3.0 x 4.3 x 2.2 cm mass protruding from the superior posterior aspect of the renal capsule.

SPECIAL STUDIES:

SMA	strongly, diffusely positive
Desmin	rarely positive
HMB45	negative
Keratin	negative

**Contributor: Mark J. DeMeo, M.D.
Santa Rosa, CA**

Case No. 7 - October 2003

Tissue from: Left chest wall

Accession #29086

Clinical Abstract:

For sometime this 31-year-old male had an enlarging mass in his left chest. The patient was told it might be a keloid as a result of a previous tattoo and infection at that site. The mass was excised due to the insistence of the patient.

Gross Pathology:

A 6.0 x 3.0 x up to 2.0 cm skin ellipse contained a central 2.0 cm firm nodule.

**Contributor: Xuedong Wang, M.D.
Pasadena, CA**

Case No. 8 - October 2003

Tissue from: Retroperitoneum

Accession #29656

Clinical Abstract:

This 73-year-old female was found to have a retroperitoneal mass.

Gross Pathology:

The 2786 gram pink-tan, bosselated mass measured 27.5 x 17.0 x 13.0 cm. The cut surface, although generally uniformly tan and myxomatous, had several foci of necrosis.

SPECIAL STUDIES:

Vimentin	positive
CD68	positive
Desmin	negative
Actin	negative
CD34	negative
S100	negative
CD117	negative

**Contributor: Faramarz Azizi, M.D.
Fontana, CA**

Case No. 9 - October 2003

Tissue from: Left thigh

Accession #29696

Clinical Abstract:

A CT scan performed for other concerns incidentally showed a mass in the left thigh of this 48-year-old female. At surgery, the mass was adherent to bone and the major femoral vessels.

Gross Pathology:

A 14 x 14 x 9 cm specimen contained a 12 x 8 x 6 cm yellow-tan mass with focal hemorrhagic areas.

**Contributor: Ellen C Ko, M.D.
Birmingham, AL**

Case No. 10 - October 2003

Tissue from: Spleen

Accession #29343

Clinical Abstract:

Due to complications following a colonoscopy, this 84-year-old female had a CT scan of the abdomen which showed an incidental splenic mass.

Gross Pathology:

The 79 gram spleen had a bulbous, 4.7 x 4.2 x 3.5 cm well-circumscribed mass protruding from one of its long margins. The cut surface was homogenous and hemorrhagic-appearing.



CALIFORNIA
TUMOR TISSUE REGISTRY

SOFT TISSUE PATHOLOGY

Minutes – Subscription A

October, 2003



SUGGESTED READING (General Topics from Recent Literature):

- Metastatic Potential of Dermatofibrosarcoma Protuberans with Fibrosarcomatous Change. Minter RM, Reith JD, and Hochwald SN. *J of Surg Oncol* 2003; 82:201-208.
- A Feasibility Study of the Use of the AutoPap Screening System as a Primary Screening and Location-Guided Rescreening Device. Confortini M, Bonardi L, et al. *Cancer* 2003; 99:129-134.
- Molecular Genetics of Pediatric Soft Tissue Tumors. Clinical Application. Chang-C-C and Shidham VB. *J Mol Diagn* 2003:143-154.
- Successfully Integrating Human Papillomavirus Testing Into Your Practice. Lozano R. *Arch Pathol Lab Med* 2003;127:991-994.

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FILE DIAGNOSES

CTTR Subscription A

October 2003

Case 1:

Elastofibroma, posterior chest wall
T-Y2128, M-88200

Case 2:

Spindle cell lipoma, back
T-Y1100, M-88570

Case 3:

Well-differentiated liposarcoma, retroperitoneum
T-Y4600, M-88503

Case 4:

Myxoid/round cell liposarcoma, thigh
T-Y9100, M-88533

Case 5:

Angiomyolipoma, kidney
T-71000, M-88600

Case 6:

Low grade smooth muscle neoplasm of undetermined malignant potential, kidney
T-71000, M-88913

Case 7:

Dermatofibrosarcoma protuberans (DFSP), chest wall
T-Y2100, M-88323

Case 8:

Pleomorphic sarcoma with phenotype of MFH, retroperitoneum
T-Y4600, M-88303

Case 9:

Diffuse tenosynovial giant cell tumor, left thigh
T-Y9100, M-47830

Case 10:

Littoral cell angioma, spleen
T-07000, M-91200

Alameda (Alameda County Medical Center) - Elastofibroma
Bakersfield - Elastofibroma
Baldwin Park (Kaiser Permanente) - Elastofibroma (3)
Fontana (Kaiser Permanente) - Elastofibroma
Hayward/Fremont - Elastofibroma dorsi
Irvine (UC Irvine Residents) - Elastofibroma
Laguna Beach (South Coast Medical Center) - Elastofibroma
Long Beach - Elastofibroma (9)
Monterey (Community Hospital of the Monterey Peninsula) - Elastofibroma
Mountain View (El Camino Pathology Group, Inc.) - Elastofibroma
Oakland (Kaiser Permanente) - Elastofibroma (4)
Orange (Orange County Pathology Medical Group) - Fibromyxolipoma
Sacramento (UC Davis Medical Center) - Elastofibroma
San Diego (Naval Medical Center) - Elastofibroma
San Francisco (San Francisco General Hospital) - Elastofibroma
Santa Rosa - Elastofibroma (3)
Ventura - Elastofibroma
Arizona (Maryvale Medical Center) - Elastofibroma
Florida (Baptist Hospital) - Elastofibroma
Florida (Munroe Regional Medical Center) - Solitary fibrous tumor
Florida (Pathology Associates) - Elastofibroma
Florida (Winter Haven Hospital) - Elastofibroma
Illinois (Northwestern Memorial Hospital) - Elastofibroma
Louisiana (Louisiana State University Medical Center) - Elastofibroma dorsi
Maryland (National Cancer Institute) - Elastofibroma
Maryland (National Naval Medical Center) - Elastofibroma (15)
Massachusetts (Berkshire Medical Center) - Elastofibroma
Massachusetts (New England Medical Center Residents) - Elastofibroma
Michigan (Oakwood Hospital) - Elastofibroma
Michigan (St. Joseph Mercy Hospital) - Elastofibroma
Minnesota (Fairview Southdale Hospital) - Solitary fibrous tumor
Mississippi (University of Mississippi) - Elastofibroma
New Jersey (Overlook Hospital) - Elastofibroma
New York (Long Island Jewish Medical Center) - Elastofibroma
New York (Nassau University Medical Center) - Elastofibroma
New York (New York Presbyterian Hospital Residents) - Elastofibroma
New York (Stony Brook University Hospital Residents) - Elastofibroma
Ohio (Medical College of Ohio Residents) - Elastofibroma
Oklahoma (Tulsa) - Elastofibroma dorsi
Oklahoma (Veterans Affairs Medical Center) - Elastofibroma
Pennsylvania (Allegheny General Hospital) - Elastofibroma
Pennsylvania (Centre Community Hospital) - Elastofibroma
Pennsylvania (Lehigh Valley Hospital) - Elastofibroma (2)
Pennsylvania (Memorial Medical Center) - Elastofibroma/spindle cell lipoma
Pennsylvania (UPMC Health System) - Elastofibroma
Pennsylvania (York Laboratory Associates) - Elastofibroma (8)
Puerto Rico (University of Puerto Rico) - Elastofibroma
Rhode Island (RI Hospital Residents) - Elastofibroma
Texas (ProPath Associates) - Elastofibroma (2)
Texas (Scott & White Memorial Hospital) - Elastofibroma
West Virginia (Greenbrier Valley Medical Center) - Solitary fibrous tumor

Wisconsin (Meriter Hospital) - Elastofibroma
Alaska (Alaska Native Medical Center) - Elastofibroma
Australia (North Queensland Pathology) - Elastofibroma
Australia (Roval Prince Alfred Hospital) - Elastofibroma
Canada (Foothills Medical Center) - Elastofibroma
Hong Kong (Hong Kong Baptist Hospital) - Elastofibroma
Italy (Naples) - Elastofibroma
Jamaica (The University of the West Indies) - Elastofibroma
Japan (Yamanashi Medical University) - Elastofibroma (2); Fibrolipoma (1); Liposarcoma (1)
Qatar (Hamad Medical Corporation) - Elastofibroma

Case 1 - Diagnosis:

Elastofibroma, posterior chest wall
T-Y2128, M-88200

Case 1 – References:

Hoffman JK, Klein MII and McNerney VK. Bilateral Elastofibroma: A Case Report and Review of the Literature. *Clin Orthop* 1996; 325:245-250.
Mojica WD and Kuntzman T. Elastofibroma Dorsi. Elaboration of Cytologic Features and Review of Its Pathogenesis. *Diagn Cytopathol* 2000; 23(6):393-396.
McComb EN, Feely MG, Neff JR, et al. Cytogenetic Instability, Predominantly Involving Chromosome 1, Is Characteristic of Elastofibroma. *Cancer Genet Cytogenet* 2001; 126(1):68-72.
Kayaselcuk F, Demirhan B, Kayaselcuk U, et al. Vimentin, Smooth Muscle Actin, Desmin, S-100 Protein, p53, and Estrogen Receptor Expression in Elastofibroma and Nodular Fasciitis. *Ann Diagn Pathol* 2002; 6(2):94-99.

Case No. 2, Accession No. 29581

October 2003

Alameda (Alameda County Medical Center) - Spindle cell lipoma
Bakersfield - Angiosarcoma
Baldwin Park (Kaiser Permanente) - Spindle cell lipoma (3)
Fontana (Kaiser Permanente) - Spindle cell lipoma
Hayward/Fremont - Spindle lipoma
Irvine (UC Irvine Residents) - Spindle cell lipoma
Laguna Beach (South Coast Medical Center) - Spindle cell lipoma
Long Beach - Spindle cell lipoma (9)
Monterey (Community Hospital of the Monterey Peninsula) - Spindle cell lipoma
Mountain View (El Camino Pathology Group, Inc.) - Spindle cell lipoma
Oakland (Kaiser Permanente) - Spindle cell lipoma (4)
Orange (Orange County Pathology Medical Group) - Spindle cell lipoma
Sacramento (UC Davis Medical Center) - Spindle cell lipoma
San Diego (Naval Medical Center) - Pleomorphic lipoma, (2nd choice) Spindle cell lipoma
San Francisco (San Francisco General Hospital) - Liposarcoma, well differentiated
Santa Rosa - Spindle cell lipoma (3)
Ventura - Dermatofibrosarcoma protuberans
Arizona (Maryvale Medical Center) - Spindle cell lipoma
Florida (Baptist Hospital) - Atypical sclerosing lipoma
Florida (Munroe Regional Medical Center) - Spindle cell lipoma
Florida (Pathology Associates) - Atypical lipoma, pleomorphic lipoma
Florida (Winter Haven Hospital) - Spindle cell lipoma
Illinois (Northwestern Memorial Hospital) - Spindle cell lipoma
Louisiana (Louisiana State University Medical Center) - Spindle cell lipoma
Maryland (National Cancer Institute) - Spindle cell lipoma
Maryland (National Naval Medical Center) - Spindle cell lipoma (15)

Massachusetts (Berkshire Medical Center) - Spindle cell lipoma
Massachusetts (New England Medical Center Residents) - Spindle cell lipoma
Michigan (Oakwood Hospital) - Spindle cell lipoma
Michigan (St. Joseph Mercy Hospital) - Spindle cell lipoma
Minnesota (Fairview Southdale Hospital) - Spindle cell lipoma
Mississippi (University of Mississippi) - Spindle cell lipoma
New Jersey (Overlook Hospital) - Spindle cell lipoma
New York (Long Island Jewish Medical Center) - Spindle cell lipoma
New York (Nassau University Medical Center) - Spindle cell lipoma
New York (New York Presbyterian Hospital Residents) - Spindle cell lipoma
New York (Stony Brook University Hospital Residents) - Spindle cell lipoma
Ohio (Medical College of Ohio Residents) - Spindle cell lipoma
Oklahoma (Tulsa) - Spindle cell lipoma
Oklahoma (Veterans Affairs Medical Center) - Spindle cell lipoma
Pennsylvania (Allegheny General Hospital) - Spindle cell lipoma
Pennsylvania (Centre Community Hospital) - Spindle cell lipoma
Pennsylvania (Lehigh Valley Hospital) - Spindle cell lipoma (2)
Pennsylvania (Memorial Medical Center) - Atypical lipoma/spindle cell lipoma
Pennsylvania (UPMC Health System) - Spindle cell lipoma
Pennsylvania (York Laboratory Associates) - Spindle cell lipoma (8)
Puerto Rico (University of Puerto Rico) - Spindle cell lipoma
Rhode Island (RI Hospital Residents) - Spindle cell lipoma
Texas (Propath Associates) - Spindle cell lipoma (2)
Texas (Scott & White Memorial Hospital) - Spindle cell lipoma
West Virginia (Greenbrier Valley Medical Center) - Spindle cell lipoma
Wisconsin (Meriter Hospital) - Spindle cell lipoma
Alaska (Alaska Native Medical Center) - Spindle cell lipoma
Australia (North Queensland Pathology) - Spindle cell lipoma
Australia (Royal Prince Alfred Hospital) - Spindle cell lipoma
Canada (Foothills Medical Center) - Spindle cell lipoma
Hong Kong (Hong Kong Baptist Hospital) - Angiolipoma
Italy (Naples) - Spindle cell lipoma
Jamaica (The University of the West Indies) - Spindle cell lipoma
Japan (Yamanashi Medical University) - Lipomatous hemangiopericytoma (1); Angiolipoma (1); Angiomyxoma (1); Liposarcoma (1)
Qatar (Hamad Medical Corporation) - Spindle cell lipoma

Case 2 - Diagnosis:

Spindle cell lipoma, back
T-Y1100, M-88570

Case 2 - References:

- Bolen JW and Thorning D. Spindle-Cell Lipoma. A Clinical, Light-and Electron-Microscopical Study. *Am J Surg Pathol* 1981; 5(5):435-441.
- Domanski HA, Carlen B, Jonsson K, et al. Distinct Cytologic Features of Spindle Cell Lipoma. A Cytologic-Histologic Study with Clinical, Radiologic, Electron Microscopic, and Cytogenetic Correlations. *Cancer* 2001; 93(6):381-389.
- Fanburg-Smith JC, Devaney KO, Miettinen M, et al. Multiple Spindle Cell Lipomas. A Report of 7 Familial and 11 Nonfamilial Cases. *Am J Surg Pathol* 1998; 22(1):40-48.

Case No. 3, Accession No. 29692

October 2003

Alameda (Alameda County Medical Center) - Sclerosing well-differentiated liposarcoma (atypical lipomatous tumor)
Bakersfield - Myxoid liposarcoma

Baldwin Park (Kaiser Permanente) - Well-differentiated liposarcoma consistent with sclerosing features (1); Well-differentiated liposarcoma (2)

Fontana (Kaiser Permanente) - Myxoid liposarcoma

Hayward/Fremont - Liposarcoma (sclerosing, well-differentiated)

Irvine (UC Irvine Residents) - Well-differentiated liposarcoma

Laguna Beach (South Coast Medical Center) - Liposarcoma

Long Beach - Liposarcoma, low grade (9)

Monterey (Community Hospital of the Monterey Peninsula) - Liposarcoma

Mountain View (El Camino Pathology Group, Inc.) - Well-differentiated sclerosing liposarcoma

Oakland (Kaiser Permanente) - Well-differentiated liposarcoma (4)

Orange (Orange County Pathology Medical Group) - Well-differentiated (sclerosing) liposarcoma

Sacramento (UC Davis Medical Center) - Atypical lipomatous tumor

San Diego (Naval Medical Center) - Well-differentiated lipoma-like liposarcoma

San Francisco (San Francisco General Hospital) - Liposarcoma, pleomorphic

Santa Rosa - Well-differentiated (sclerosing) liposarcoma (1); Myxoid liposarcoma (1); Liposarcoma, myxoid type (1)

Ventura - Liposarcoma

Arizona (Maryvale Medical Center) - Sclerosing (fibrosing) liposarcoma

Florida (Baptist Hospital) - Liposarcoma

Florida (Munroe Regional Medical Center) - Liposarcoma

Florida (Pathology Associates) - Liposarcoma

Florida (Winter Haven Hospital) - Liposarcoma, well-differentiated

Illinois (Northwestern Memorial Hospital) - Liposarcoma, sclerosing type

Louisiana (Louisiana State University Medical Center) - Well-differentiated sclerosing liposarcoma

Maryland (National Cancer Institute) - Well-differentiated liposarcoma

Maryland (National Naval Medical Center) - Myxoid liposarcoma (15)

Massachusetts (Berkshire Medical Center) - Low grade liposarcoma

Massachusetts (New England Medical Center Residents) - Well-differentiated liposarcoma

Michigan (Oakwood Hospital) - Well-differentiated liposarcoma

Michigan (St. Joseph Mercy Hospital) - Sclerosing liposarcoma

Minnesota (Fairview Southdale Hospital) - Liposarcoma

Mississippi (University of Mississippi) - Liposarcoma, well-differentiated

New Jersey (Overlook Hospital) - Liposarcoma, well-differentiated

New York (Long Island Jewish Medical Center) - Well-differentiated liposarcoma

New York (Nassau University Medical Center) - Well-differentiated liposarcoma

New York (New York Presbyterian Hospital Residents) - Well-differentiated liposarcoma

New York (Stony Brook University Hospital Residents) - Sclerosing, well-differentiated liposarcoma

Ohio (Medical College of Ohio Residents) - Well-differentiated, sclerosing liposarcoma

Oklahoma (Tulsa) - Liposarcoma, well-differentiated

Oklahoma (Veterans Affairs Medical Center) - Atypical lipomatous tumor/Well-differentiated liposarcoma

Pennsylvania (Allegheny General Hospital) - Well-differentiated, sclerosing liposarcoma

Pennsylvania (Centre Community Hospital) - Well-differentiated liposarcoma

Pennsylvania (Lehigh Valley Hospital) - Lipoma-like liposarcoma (1); Myxoid liposarcoma (1)

Pennsylvania (Memorial Medical Center) - Liposarcoma

Pennsylvania (UPMC Health System) - Well-differentiated liposarcoma

Pennsylvania (York Laboratory Associates) - Atypical lipomatous tumor, well-differentiated liposarcoma with predominant cartilage differentiation (2); Atypical lipomatous tumor (1); Atypical lipomatous tumor/well-differentiated liposarcoma (1); Atypical lipoma/well-differentiated sarcoma (1); Well-differentiated liposarcoma (1); Atypical lipomatous tumor/well-differentiated liposarcoma (spindle /sclerosing/ variant) (1); Low grade liposarcoma (1)

Puerto Rico (University of Puerto Rico) - Well-differentiated liposarcoma

Rhode Island (RI Hospital Residents) - Liposarcoma

Texas (ProPath Associates) - Well-differentiated sclerosing liposarcoma (2)

Texas (Scott & White Memorial Hospital) - Well-differentiated sclerosing liposarcoma

West Virginia (Greenbrier Valley Medical Center) - Pleomorphic lipoma

Wisconsin (Meriter Hospital) - Low grade liposarcoma

Alaska (Alaska Native Medical Center) - Liposarcoma, well-differentiated, sclerosing
Australia (North Queensland Pathology) - Well-differentiated liposarcoma
Australia (Royal Prince Alfred Hospital) - Well-differentiated liposarcoma, sclerosing variant
Canada (Foothills Medical Center) - Well-differentiated liposarcoma
Hong Kong (Hong Kong Baptist Hospital) - Pleomorphic liposarcoma
Italy (Naples) - Sclerosing, well-differentiated liposarcoma
Jamaica (The University of the West Indies) - Well-differentiated liposarcoma, sclerosing subtype
Japan (Yamanashi Medical University) - Liposarcoma, well (3); Myxoid (1)
Qatar (Hamad Medical Corporation) - Well-differentiated liposarcoma

Case 3 - Diagnosis:

Well-differentiated liposarcoma, retroperitoneum
T-Y4600, M-88503

Case 3 - References:

Szymanska J, Virolainen M, Tarkkanen M, et al. Overrepresentation of 1q21-23 and 12q13-21 in Lipoma-Like Liposarcomas But Not in Benign Lipomas. A Comparative Genomic Hybridization Study. *Cancer Genet Cytogenet* 1997; 99(1):14-18.
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* 1994; 18(12):1213-1223.
Azumi N, Curtis J, Kempson RL and Hendrickson MR. Atypical and Malignant Neoplasms Showing Lipomatous Differentiation. A Study of 111 Cases. *Am J Surg Pathol* 1987; 11(3):161-183.
Azzopardi JG, Iocco J and Salm R. Pleomorphic Lipoma. A Tumour Simulating Liposarcoma. *Histopathol* 1983; 7(4):511-523.

Case No. 4, Accession No. 29638

October 2003

Alameda (Alameda County Medical Center) - Myxoid liposarcoma
Bakersfield - Myxoid round cell liposarcoma
Baldwin Park (Kaiser Permanente) - Myxoid liposarcoma consistent with round cell liposarcoma (3)
Fontana (Kaiser Permanente) - Myxoid and round cell liposarcoma
Hayward/Fremont - Myxoid chondrosarcoma
Irvine (UC Irvine Residents) - Myxoid/round cell liposarcoma
Laguna Beach (South Coast Medical Center) - Round cell liposarcoma vs. mesenchymal chondrosarcoma
Long Beach - Liposarcoma, myxoid and round cell type (9)
Monterey (Community Hospital of the Monterey Peninsula) - Extra-osseous myxoid chondrosarcoma
Mountain View (El Camino Pathology Group, Inc.) - Myxoid liposarcoma
Oakland (Kaiser Permanente) - Myxoid round cell liposarcoma (4)
Orange (Orange County Pathology Medical Group) - Round cell liposarcoma
Sacramento (UC Davis Medical Center) - Extra-skeletal chondrosarcoma
San Diego (Naval Medical Center) - Chondroid lipoma (1); 2nd choice-Myxoid liposarcoma, cellular
San Francisco (San Francisco General Hospital) - Mesenchymal chondrosarcoma
Santa Rosa - Myxoid liposarcoma (3)
Ventura - Myxoid liposarcoma
Arizona (Maryvale Medical Center) - Extra-skeletal mesenchymal chondrosarcoma
Florida (Baptist Hospital) - Myxoid/round cell liposarcoma
Florida (Munroe Regional Medical Center) - Myxoid liposarcoma
Florida (Pathology Associates) - Round cell, myxoid liposarcoma
Florida (Winter Haven Hospital) - Dedifferentiated liposarcoma
Illinois (Northwestern Memorial Hospital) - Myxoid liposarcoma
Louisiana (Louisiana State University Medical Center) - Myxoid and round cell liposarcoma
Maryland (National Cancer Institute) - Mesenchymal chondrosarcoma
Maryland (National Naval Medical Center) - Round cell liposarcoma (14); Chondroid lipoma (1)
Massachusetts (Berkshire Medical Center) - Extra-skeletal chondrosarcoma
Massachusetts (New England Medical Center Residents) - Myxoid liposarcoma

Michigan (Oakwood Hospital) - Myxoid chondrosarcoma
Michigan (St. Joseph Mercy Hospital) - Myxoid/round cell liposarcoma
Minnesota (Fairview Southdale Hospital) - Chondrosarcoma
Mississippi (University of Mississippi) - Myxoid/round cell liposarcoma
New Jersey (Overlook Hospital) - Myxoid liposarcoma
New York (Long Island Jewish Medical Center) - Myxoid/round cell liposarcoma
New York (Nassau University Medical Center) - Myxoid/round cell liposarcoma
New York (New York Presbyterian Hospital Residents) - Myxoid liposarcoma
New York (Stony Brook University Hospital Residents) - Round cell liposarcoma
Ohio (Medical College of Ohio Residents) - Myxoid liposarcoma
Oklahoma (Tulsa) - Myxoid liposarcoma
Oklahoma (Veterans Affairs Medical Center) - Myxoid liposarcoma
Pennsylvania (Allegheny General Hospital) - Liposarcoma, round cell type
Pennsylvania (Centre Community Hospital) - Myxoid/round cell liposarcoma
Pennsylvania (Lhigh Valley Hospital) - Myxoid liposarcoma (1); Synovial sarcoma (1)
Pennsylvania (Memorial Medical Center) - Myxoid/round cell liposarcoma
Pennsylvania (UPMC Health System) - Cellular myxoid round cell liposarcoma
Pennsylvania (York Laboratory Associates) - Extra-skeletal chondrosarcoma (2); Extra-skeletal chondrosarcoma vs. sarcoma with cartilaginous differentiation (3); Chondrosarcoma (1); Sarcoma (1); Extra-skeletal myxoid chondrosarcoma (1)
Puerto Rico (University of Puerto Rico) - Myxoid liposarcoma
Rhode Island (RI Hospital Residents) - Myxoid/round cell liposarcoma
Texas (ProPath Associates) - Extra-skeletal myxoid chondrosarcoma (2)
Texas (Scott & White Memorial Hospital) - Myxoid/round cell liposarcoma
West Virginia (Greenbrier Valley Medical Center) - Chondroid lipoma
Wisconsin (Meriter Hospital) - Low grade chondrosarcoma
Alaska (Alaska Native Medical Center) - Myxoid liposarcoma (2); Extra-skeletal mesenchymal chondrosarcoma (1)
Australia (North Queensland Pathology) - Round cell and myxoid liposarcoma
Australia (Royal Prince Alfred Hospital) - Round cell liposarcoma
Canada (Foothills Medical Center) - Myxoid liposarcoma with areas of round cell liposarcoma
Hong Kong (Hong Kong Baptist Hospital) - Malignant granular cell tumor
Italy (Naples) - Round cell liposarcoma
Jamaica (The University of the West Indies) - Myxoid/round cell liposarcoma
Japan (Yamanashi Medical University) - Liposarcoma, round cell and myxoid (3); Lipoblastic (1)
Qatar (Hamad Medical Corporation) - Myxoid/round cell liposarcoma

Case 4 - Diagnosis:

Myxoid/round cell liposarcoma, thigh
 T-Y9100, M-88533

Case 4 - References:

Hashimoto H and Enjoji M. Liposarcoma. A Clinicopathologic Subtyping of 52 Cases. *Acta Pathol Jpn* 1982; 32(6):933-948.
 Meis-Kindblom JM, Sjogren H, Kindblom LG, et al. Cytogenetic and Molecular Genetic Analyses of Liposarcoma and Its Soft Tissue Simulators. Recognition of New Variants and Differential Diagnosis. *Virchows Arch* 2001; 439(2):141-151.
 Orvieto E, Furlanetto A, et al. Myxoid and round Cell Liposarcoma: A Spectrum of Myxoid Adipocytic Neoplasia. *Semin Diagn Pathol* 2001; 18(4):267-273.
 Jaeger V, Schneider-Stock R, Gerresheim F, et al. Myxoid Liposarcoma with Transition to Round-Cell Lesion-Cell Cycle Regulator Genes and Telomerase Activity Characterizing Tumor Progression. A Case Report. *Hum Pathol* 1999; 30(12):1515-1519.

Case No. 5, Accession No. 29585

October 2003

Alameda (Alameda County Medical Center) - Angiomyolipoma
Bakersfield - Angiomyolipoma
Baldwin Park (Kaiser Permanente) - Angiomyolipoma (3)

Fontana (Kaiser Permanente) - Angiomyolipoma
Hayward/Fremont - Angiomyolipoma
Irvine (UC Irvine Residents) - Angiomyolipoma
Laguna Beach (South Coast Medical Center) - Angiomyolipoma
Long Beach - Angiomyolipoma (9)
Monterey (Community Hospital of the Monterey Peninsula) - Angiomyolipoma
Mountain View (El Camino Pathology Group, Inc.) - Angiomyolipoma
Oakland (Kaiser Permanente) - Angiomyolipoma (4)
Orange (Orange County Pathology Medical Group) - Angiomyolipoma
Sacramento (UC Davis Medical Center) - Angiomyolipoma
San Diego (Naval Medical Center) - Angiomyolipoma
San Francisco (San Francisco General Hospital) - Angiomyolipoma
Santa Rosa - Angiomyolipoma (3)
Ventura - Angiomyolipoma
Arizona (Maryvale Medical Center) - Angiomyolipoma
Florida (Baptist Hospital) - Angiomyolipoma
Florida (Munroe Regional Medical Center) - Angiomyolipoma
Florida (Pathology Associates) - Angiomyolipoma
Florida (Winter Haven Hospital) - Angiomyolipoma
Illinois (Northwestern Memorial Hospital) - Angiomyolipoma
Louisiana (Louisiana State University Medical Center) - Angiomyolipoma
Maryland (National Cancer Institute) - Angiomyolipoma
Maryland (National Naval Medical Center) - Angiomyolipoma (15)
Massachusetts (Berkshire Medical Center) - Angiomyolipoma
Massachusetts (New England Medical Center Residents) - Angiomyolipoma
Michigan (Oakwood Hospital) - Angiomyolipoma
Michigan (St. Joseph Mercy Hospital) - Angiomyolipoma
Minnesota (Fairview Southdale Hospital) - Angiomyolipoma
Mississippi (University of Mississippi) - Angiomyolipoma
New Jersey (Overlook Hospital) - Angiomyolipoma
New York (Long Island Jewish Medical Center) - Angiomyolipoma
New York (Nassau University Medical Center) - Angiomyolipoma
New York (New York Presbyterian Hospital Residents) - Angiomyolipoma
New York (Stony Brook University Hospital Residents) - Angiomyolipoma
Ohio (Medical College of Ohio Residents) - Angiomyolipoma
Oklahoma (Tulsa) - Angiomyolipoma
Oklahoma (Veterans Affairs Medical Center) - Angiomyolipoma
Pennsylvania (Allegheny General Hospital) - Angiomyolipoma
Pennsylvania (Centre Community Hospital) - Angiomyolipoma
Pennsylvania (Lehigh Valley Hospital) - Angiomyolipoma (2)
Pennsylvania (Memorial Medical Center) - Angiomyolipoma
Pennsylvania (UPMC Health System) - Angiomyolipoma
Pennsylvania (York Laboratory Associates) - Angiomyolipoma (8)
Puerto Rico (University of Puerto Rico) - Angiomyolipoma
Rhode Island (RI Hospital Residents) - Renal angiomyolipoma
Texas (ProPath Associates) - Angiomyolipoma (2)
Texas (Scott & White Memorial Hospital) - Angiomyolipoma
West Virginia (Greenbrier Valley Medical Center) - Angiomyolipoma
Wisconsin (Meriter Hospital) - Angiomyolipoma
Alaska (Alaska Native Medical Center) - Angiomyolipoma
Australia (North Queensland Pathology) - Angiomyolipoma
Australia (Royal Prince Alfred Hospital) - Angiomyolipoma
Canada (Foothills Medical Center) - Angiomyolipoma

Hong Kong (Hong Kong Baptist Hospital) - Angiomyolipoma
Italy (Naples) - Angiomyolipoma
Jamaica (The University of the West Indies) - Angiolipoma
Japan (Yamanashi Medical University) - Angiomyolipoma (4)
Qatar (Hamad Medical Corporation) - Angiomyolipoma

Case 5 -- Diagnosis:

Angiomyolipoma, kidney
T-71000, M-88600

Case 5 -- References:

Nelson CP and Sanda MG. Contemporary Diagnosis and Management of Renal Angiomyolipoma. *J Urol* 2002; 168(4 Pt1):1315-1325.
Yamakado K, Tanaka N, Nukagawa T, et al. Renal Angiomyolipoma. Relationships Between Tumor Size, Aneurysm Formation, and Rupture. *Radiol* 2002; 225(1):78-82.
Israel GM, Bosniak MA, et al. CT Differentiation of Large Exophytic Renal Angiomyolipomas and Perirenal Liposarcomas. *AJR AM J Roentgenol* 2002; 179(3):769-773.
Bernardini S, Chabannes E, Algros MP, et al. Variants of Renal Angiomyolipoma Closely Simulating Renal Cell Carcinoma. Difficulties in the Histological Diagnosis. *Urol Int* 2002; 69(1):78-81.
Makhlouf HR, Remotti HE and Ishak KG. Expression of KIT (CD117) in Angiomyolipoma. *Am J Surg Pathol* 2002; 26(4):493-497.
Zamecnik M, Majercik M and Gomoleak P. Renal Angiomyolipoma Resembling Gastrointestinal Stromal Tumor with Skenoid Fibers. *Ann Diagn Pathol* 1999; 3(2):88-91.

Case No. 6, Accession No. 29630

October 2003

Alameda (Alameda County Medical Center) - Adult mesoblastic nephroma
Bakersfield - Leiomyosarcoma
Baldwin Park (Kaiser Permanente) - Leiomyosarcoma, low grade (3)
Fontana (Kaiser Permanente) - Smooth muscle tumor, favor benign
Hayward/Fremont - Smooth muscle tumor of low malignant potential (LMP)
Irvine (UC Irvine Residents) - Leiomyoma
Laguna Beach (South Coast Medical Center) - Leiomyosarcoma
Long Beach - Leiomyosarcoma, low grade (9)
Monterey (Community Hospital of the Monterey Peninsula) - Leiomyosarcoma
Mountain View (El Camino Pathology Group, Inc.) - Leiomyosarcoma
Oakland (Kaiser Permanente) - Leiomyosarcoma (4)
Orange (Orange County Pathology Medical Group) - Leiomyoma
Sacramento (UC Davis Medical Center) - Leiomyoma
San Diego (Naval Medical Center) - Leiomyosarcoma
San Francisco (San Francisco General Hospital) - Symplastic leiomyoma
Santa Rosa - Leiomyosarcoma (3)
Ventura - Leiomyosarcoma
Arizona (Maryvale Medical Center) - Leiomyosarcoma, renal capsule
Florida (Baptist Hospital) - Leiomyosarcoma
Florida (Munroe Regional Medical Center) - Rhabdomyosarcoma
Florida (Pathology Associates) - Leiomyosarcoma
Florida (Winter Haven Hospital) - Leiomyosarcoma
Illinois (Northwestern Memorial Hospital) - Leiomyoma
Louisiana (Louisiana State University Medical Center) - Leiomyoma
Maryland (National Cancer Institute) - Leiomyosarcoma
Maryland (National Naval Medical Center) - Leiomyosarcoma (15)
Massachusetts (Berkshire Medical Center) - Leiomyosarcoma
Massachusetts (New England Medical Center Residents) - Leiomyoma

Michigan (Oakwood Hospital) - Leiomyosarcoma, low grade
Michigan (St. Joseph Mercy Hospital) - Leiomyosarcoma (1); Mesoblastic nephroma (1)
Minnesota (Fairview Southdale Hospital) - Leiomyosarcoma
Mississippi (University of Mississippi) - Leiomyoma
New Jersey (Overlook Hospital) - Leiomyosarcoma, well-differentiated
New York (Long Island Jewish Medical Center) - Leiomyosarcoma
New York (Nassau University Medical Center) - Leiomyoma
New York (New York Presbyterian Hospital Residents) - Leiomyoma
New York (Stony Brook University Hospital Residents) - Leiomyoma
Ohio (Medical College of Ohio Residents) - Leiomyosarcoma
Oklahoma (Tulsa) - Leiomyoma
Oklahoma (Veterans Affairs Medical Center) - Leiomyosarcoma of kidney
Pennsylvania (Allegheny General Hospital) - Leiomyosarcoma
Pennsylvania (Centre Community Hospital) - Leiomyoma
Pennsylvania (Lehigh Valley Hospital) - Leiomyoma (2)
Pennsylvania (Memorial Medical Center) - Leiomyosarcoma
Pennsylvania (UPMC Health System) - Predominantly leiomyoma, still can be angiomyolipoma
Pennsylvania (York Laboratory Associates) - Leiomyoma (8)
Puerto Rico (University of Puerto Rico) - Leiomyosarcoma
Rhode Island (RI Hospital Residents) - Leiomyosarcoma
Texas (ProPath Associates) - Leiomyoma (2)
Texas (Scott & White Memorial Hospital) - Leiomyosarcoma
West Virginia (Greenbrier Valley Medical Center) - Sarcomatoid renal cell carcinoma
Wisconsin (Meriter Hospital) - Cellular leiomyoma
Alaska (Alaska Native Medical Center) - Leiomyoma (renal capsular)
Australia (North Queensland Pathology) - Leiomyosarcoma
Australia (Royal Prince Alfred Hospital) - Angiomyolipoma
Canada (Foothills Medical Center) - Leiomyosarcoma
Hong Kong (Hong Kong Baptist Hospital) - Leiomyosarcoma
Italy (Naples) - Leiomyoma, rule out sarcoma
Jamaica (The University of the West Indies) - Leiomyosarcoma
Japan (Yamanashi Medical University) - Smooth muscular tumor, UMP (1); Leiomyosarcoma (1); Angiomyolipoma (1); Liposarcoma (1)
Qatar (Hamad Medical Corporation) - Renal leiomyoma

Case 6 - Diagnosis:

Low grade smooth muscle neoplasm of undetermined malignant potential, kidney
 T-71000, M-88913

Case 6 - References:

Moudouni SM, En-Nia I, Rioux-Leclercq N, et al. Leiomyosarcoma of the Renal Pelvis. *Scand J Urol Nephrol* 2001; 35(5):425-427.
 Gill IS, Hobart MG, Kaouk JH, et al. Leiomyosarcoma of the Main Renal Artery Treated by Laparoscopic Radical Nephrectomy. *Urol* 2000; 56(4):669.
 Hiratuka Y, Ikeda H, Sugaya Y, et al. A Case of Leiomyosarcoma of the Renal Vein. *Nippon Hinyokika Gakkai Zasshi* 2001; 92(1):38-41.
 Bonsib SM. HMB-45 Reactivity in Renal Leiomyomas and Leiomyosarcomas. *Mod Pathol* 1996; 9(6):664-669.

Case No. 7, Accession No. 29086

October 2003

Alameda (Alameda County Medical Center) - Dermatofibrosarcoma protuberans
Bakersfield - Dermatofibrosarcoma protuberans
Baldwin Park (Kaiser Permanente) - Dermatofibrosarcoma protuberans (3)
Fontana (Kaiser Permanente) - Dermatofibrosarcoma protuberans

Hayward/Fremont - Dermatofibrosarcoma protuberans
Irvine (UC Irvine Residents) - Dermatofibrosarcoma protuberans
Laguna Beach (South Coast Medical Center) - Dermatofibrosarcoma protuberans
Long Beach - Dermatofibrosarcoma protuberance (9)
Monterey (Community Hospital of the Monterey Peninsula) - Dermatofibrosarcoma protuberans
Mountain View (El Camino Pathology Group, Inc.) - Dermatofibrosarcoma protuberans
Oakland (Kaiser Permanente) - Dermatofibrosarcoma protuberans (4)
Orange (Orange County Pathology Medical Group) - Dermatofibrosarcoma protuberans
Sacramento (UC Davis Medical Center) - Fibromatosis
San Diego (Naval Medical Center) - Dermatofibrosarcoma protuberans
San Francisco (San Francisco General Hospital) - Dermatofibrosarcoma protuberans
Santa Rosa - Dermatofibrosarcoma protuberans (3)
Ventura - Dermatofibrosarcoma protuberans
Arizona (Maryvale Medical Center) - Dermatofibrosarcoma protuberans
Florida (Baptist Hospital) - Dermatofibrosarcoma protuberans
Florida (Munroe Regional Medical Center) - Dermatofibrosarcoma protuberans
Florida (Pathology Associates) - Dermatofibrosarcoma protuberans
Florida (Winter Haven Hospital) - Dermatofibrosarcoma protuberans
Illinois (Northwestern Memorial Hospital) - Dermatofibrosarcoma protuberans
Louisiana (Louisiana State University Medical Center) - Dermatofibrosarcoma protuberans
Maryland (National Cancer Institute) - Dermatofibrosarcoma protuberans
Maryland (National Naval Medical Center) - Fibrosarcoma arising in dermatofibrosarcoma protuberans (15)
Massachusetts (Berkshire Medical Center) - Dermatofibrosarcoma protuberans
Massachusetts (New England Medical Center Residents) - Dermatofibrosarcoma protuberans
Michigan (Oakwood Hospital) - Dermatofibrosarcoma protuberans
Michigan (St. Joseph Mercy Hospital) - Dermatofibrosarcoma
Minnesota (Fairview Southdale Hospital) - Dermatofibrosarcoma protuberans
Mississippi (University of Mississippi) - Dermatofibrosarcoma protuberans (DFSP) with myxoid change
New Jersey (Overlook Hospital) - Dermatofibrosarcoma
New York (Long Island Jewish Medical Center) - Dermatofibrosarcoma protuberans
New York (Nassau University Medical Center) - Dermatofibrosarcoma protuberans
New York (New York Presbyterian Hospital Residents) - Dermatofibrosarcoma protuberans
New York (Stony Brook University Hospital Residents) - Dermatofibrosarcoma protuberans
Ohio (Medical College of Ohio Residents) - Dermatofibrosarcoma protuberans
Oklahoma (Tulsa) - Dermatofibrosarcoma protuberans
Oklahoma (Veterans Affairs Medical Center) - Dermatofibrosarcoma protuberans
Pennsylvania (Allegheny General Hospital) - Dermatofibrosarcoma protuberans
Pennsylvania (Centre Community Hospital) - Extra-abdominal fibromatosis
Pennsylvania (Lehigh Valley Hospital) - Dermatofibrosarcoma protuberans (2)
Pennsylvania (Memorial Medical Center) - Dermatofibrosarcoma protuberans
Pennsylvania (UPMC Health System) - Fibrous histiocytoma
Pennsylvania (York Laboratory Associates) - Dermatofibrosarcoma protuberans (8)
Puerto Rico (University of Puerto Rico) - Dermatofibrosarcoma protuberans
Rhode Island (RI Hospital Residents) - Dermatofibrosarcoma protuberans
Texas (ProPath Associates) - Dermatofibrosarcoma protuberans (2)
Texas (Scott & White Memorial Hospital) - Desmoid
West Virginia (Greenbrier Valley Medical Center) - Dermatofibrosarcoma protuberans
Wisconsin (Meriter Hospital) - Dermatofibrosarcoma protuberans, focally dedifferentiated
Alaska (Alaska Native Medical Center) - Dermatofibrosarcoma, protuberans
Australia (North Queensland Pathology) - Dermatofibrosarcoma protuberans
Australia (Royal Prince Alfred Hospital) - Dermatofibrosarcoma protuberans
Canada (Foothills Medical Center) - Sarcoma arising in dermatofibrosarcoma protuberans
Hong Kong (Hong Kong Baptist Hospital) - Dermatofibrosarcoma protuberans

Italy (Naples) - Dermatofibrosarcoma protuberans

Jamaica (The University of the West Indies) - Dermatofibrosarcoma protuberans

Japan (Yamanashi Medical University) - Dermatofibrosarcoma protuberance (3); Fibrous histiocytoma (1)

Qatar (Hamad Medical Corporation) - Dermatofibrosarcoma protuberans

Case 7 - Diagnosis:

Dermatofibrosarcoma protuberans (DFSP), chest wall
T-Y2100, M-88323

Case 7 - References:

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.

Goldblum JR, Reith JD and Weiss SW. Sarcomas Arising in Dermatofibrosarcoma Protuberans. A Reappraisal of Biologic Behavior in Eighteen Cases Treated by Wide Local Excision with Extended Clinical Follow Up. *Am J Surg Pathol* 2000; 24(8):1125-1130.

Sawyers CL. Imatinib GIST Keeps Finding New Indications. Successful Treatment of Dermatofibrosarcoma Protuberans by Targeted Inhibition of the Platelet-Derived Growth Factor Receptor. *J Clin Oncol* 2002; 20(17):3568-3569.

Nishio J, Iwasaki H, Ohijimi Y, et al. Overrepresentation of 17q22-qter and 22q13 in Dermatofibrosarcoma Protuberans But Not In Dermatofibroma. A Comparative Genomic Hybridization Study. *Cancer Genet Cytogenet* 2002; 132(2):102-108.

Lal P, Sharma R, Mohan H, et al. Dermatofibrosarcoma Protuberans Metastasizing to Lymph Nodes. A Case Report and Review of Literature. *J Surg Oncol* 1999; 72(3): 178-180.

Case No. 8, Accession No. 29656

October 2003

Alameda (Alameda County Medical Center) - Myxoid malignant fibrous histiocytoma

Bakersfield - Myxoid malignant fibrous histiocytoma

Baldwin Park (Kaiser Permanente) - Malignant fibrous histiocytoma (3)

Fontana (Kaiser Permanente) - Malignant fibrous histiocytoma

Hayward/Fremont - Dedifferentiated liposarcoma (MFH pattern and stains)

Irvine (UC Irvine Residents) - Myxoid malignant fibrous histiocytoma

Laguna Beach (South Coast Medical Center) - Malignant fibrous histiocytoma

Long Beach - Myxoid malignant fibrous histiocytoma (myxofibrosarcoma) (9)

Monterey (Community Hospital of the Monterey Peninsula) - Sarcoma/malignant fibrous histiocytoma

Mountain View (El Camino Pathology Group, Inc.) - Malignant fibrous histiocytoma, pleomorphic, storiform type

Oakland (Kaiser Permanente) - Pleomorphic high grade sarcoma consistent with malignant fibrous histiocytoma (4)

Orange (Orange County Pathology Medical Group) - Myxofibrosarcoma

Sacramento (UC Davis Medical Center) - Malignant fibrous histiocytoma

San Diego (Naval Medical Center) - Malignant fibrous histiocytoma, pleomorphic storiform

San Francisco (San Francisco General Hospital) - Sarcoma, liposarcoma vs. malignant fibrous histiocytoma

Santa Rosa - Myxoid malignant fibrous histiocytoma (1); Malignant fibrous histiocytoma (1)

Ventura - Myxofibrosarcoma

Arizona (Maryvale Medical Center) - Dedifferentiated liposarcoma

Florida (Baptist Hospital) - Malignant neurofibroma

Florida (Munroe Regional Medical Center) - Malignant fibrous histiocytoma

Florida (Pathology Associates) - Malignant fibrous histiocytoma

Florida (Winter Haven Hospital) - Malignant fibrous histiocytoma

Illinois (Northwestern Memorial Hospital) - Myxoid malignant fibrous histiocytoma

Louisiana (Louisiana State University Medical Center) - Liposarcoma, predominantly spindle with pleomorphic foci

Maryland (National Cancer Institute) - Myxoid malignant fibrous histiocytoma

Maryland (National Naval Medical Center) - Malignant fibrous histiocytoma, pleomorphic (15)

Massachusetts (Berkshire Medical Center) - High grade liposarcoma

Massachusetts (New England Medical Center Residents) - Myxoid malignant fibrous histiocytoma

Michigan (Oakwood Hospital) - Myxofibrosarcoma, intermediate grade

Michigan (St. Joseph Mercy Hospital) - Malignant fibrous histiocytoma

Minnesota (Fairview Southdale Hospital) - Malignant fibrous histiocytoma, pleomorphic
Mississippi (University of Mississippi) - Myxoid malignant fibrous histiocytoma (MFH)
New Jersey (Overlook Hospital) - Malignant fibrous histiocytoma
New York (Long Island Jewish Medical Center) - Malignant fibrous histiocytoma
New York (Nassau University Medical Center) - Myxoid malignant fibrous histiocytoma
New York (New York Presbyterian Hospital Residents) - Pleomorphic sarcoma, NOS
New York (Stony Brook University Hospital Residents) - Myxoid malignant fibrous histiocytoma/high grade sarcoma
Ohio (Medical College of Ohio Residents) - Myxoid malignant fibrous histiocytoma
Oklahoma (Tulsa) - Malignant fibrous histiocytoma
Oklahoma (Veterans Affairs Medical Center) - Malignant fibrous histiocytoma
Pennsylvania (Allegheny General Hospital) - Malignant fibrous histiocytoma, myxoid
Pennsylvania (Centre Community Hospital) - Myxoid malignant fibrous histiocytoma (MFH)
Pennsylvania (Lehigh Valley Hospital) - Malignant fibrous histiocytoma (2)
Pennsylvania (Memorial Medical Center) - Malignant fibrous histiocytoma
Pennsylvania (UPMC Health System) - Malignant fibrous histiocytoma
Pennsylvania (York Laboratory Associates) - Malignant astrocytoma (1); Malignant fibrous histiocytoma (7)
Puerto Rico (University of Puerto Rico) - Malignant fibrous histiocytoma
Rhode Island (RI Hospital Residents) - Malignant fibrous histiocytoma, storiform-pleomorphic type
Texas (ProPath Associates) - Malignant fibrous histiocytoma (2)
Texas (Scott & White Memorial Hospital) - Malignant fibrous histiocytoma (high grade pleomorphic sarcoma)
West Virginia (Greenbrier Valley Medical Center) - Malignant fibrohistiocytic tumor
Wisconsin (Meriter Hospital) - Malignant fibrous histiocytoma
Alaska (Alaska Native Medical Center) - Malignant fibrous histiocytoma (storiform pleomorphic and myxoid)
Australia (North Queensland Pathology) - Malignant fibrous histiocytoma, Diff Dx: pleomorphic liposarcoma
Australia (Royal Prince Alfred Hospital) - Malignant fibrohistiocytoma, probably dedifferentiated liposarcoma
Canada (Foothills Medical Center) - Myxoid malignant fibrous histiocytoma
Hong Kong (Hong Kong Baptist Hospital) - Myxoid malignant fibrous histiocytoma
Italy (Naples) - Pleomorphic-storiform malignant fibrous histiocytoma
Jamaica (The University of the West Indies) - No answer
Japan (Yamanashi Medical University) - Dedifferentiated liposarcoma (2); Malignant fibrous histiocytoma (2)
Qatar (Hamad Medical Corporation) - Pleomorphic malignant fibrous histiocytoma

Case 8 - Diagnosis:

Pleomorphic sarcoma with phenotype of MFH, retroperitoneum
 T-Y4600, M-88303

Case 8 - References:

- Shinozaki T, Kato K, Watanabe H, et al. Discriminant Analysis of Prognostic Factors for Malignant Fibrous Histiocytoma in Soft Tissue. *J Orthop Sci* 2001; 6(4):339-342.
 Fanburg-Smith JC, Spiro IJ, Katapuram SV, Mankin HJ, et al. Infiltrative Subcutaneous Malignant Fibrous Histiocytoma. A Comparative Study with Deep Malignant Fibrous Histiocytoma and an Observation of Biologic Behavior. *Ann Diagn Pathol* 1999; 3(1):1-10.
 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.
 Belal A, Kandil A, Allam A, et al. Malignant Fibrous Histiocytoma. A Retrospective Study of 109 Cases. *Am J Clin Oncol* 2002; 25(1):16-22.

Case No. 9, Accession No. 29696

October 2003

Alameda (Alameda County Medical Center) - Giant cell tumor
Bakersfield - Hibernoma
Baldwin Park (Kaiser Permanente) - Synovial sarcoma (3)
Fontana (Kaiser Permanente) - Extra-articular diffuse tenosynovial giant cell tumor

Hayward/Fremont - Liposarcoma, round cell type
Irvine (UC Irvine Residents) - Granulocytic sarcoma
Laguna Beach (South Coast Medical Center) - Synovial sarcoma vs. PECOM vs. HPC
Long Beach - Synovial sarcoma (9)
Monterey (Community Hospital of the Monterey Peninsula) - Histiocytic lymphoma
Mountain View (El Camino Pathology Group, Inc.) - Giant cell tumor of tendon sheath, diffuse type
Oakland (Kaiser Permanente) - Rosai-Dorfman disease (4)
Orange (Orange County Pathology Medical Group) - Histiocytic proliferation, ? benign
Sacramento (UC Davis Medical Center) - Granulocytic sarcoma
San Diego (Naval Medical Center) - Nodular tenosynovitis, xanthogranuloma, extranodal Rosai-Dorfman, deep fibrous histiocytoma
San Francisco (San Francisco General Hospital) - Xanthosarcoma
Santa Rosa - Xanthoma (1); Epithelioid synovial sarcoma (2)
Ventura - Synovial sarcoma
Arizona (Maryvale Medical Center) - Malignant glomus tumor
Florida (Baptist Hospital) - Atypical xanthogranuloma
Florida (Munroe Regional Medical Center) - Xanthoma
Florida (Pathology Associates) - Synovial sarcoma, hemangioendothelioma
Florida (Winter Haven Hospital) - Rosai-Dorfman disease
Illinois (Northwestern Memorial Hospital) - Soft tissue Rosai-Dorfman disease
Louisiana (Louisiana State University Medical Center) - Tenosynovial giant cell tumor, diffuse type
Maryland (National Cancer Institute) - Giant cell tumor of tendon sheath
Maryland (National Naval Medical Center) - Rosai-Dorfman disease, extranodal (11); Giant cell tumor, diffuse type (4)
Massachusetts (Berkshire Medical Center) - Synovial sarcoma
Massachusetts (New England Medical Center Residents) - Extra-articular villonodular synovitis
Michigan (Oakwood Hospital) - Sinus histiocytoma consistent with massive lymphadenopathy
Michigan (St. Joseph Mercy Hospital) - Rosai-Dorfman disease (1); Eosinophilic granuloma (2)
Minnesota (Fairview Southdale Hospital) - Sarcoma/? synovial sarcoma
Mississippi (University of Mississippi) - Diffuse giant cell tumor
New Jersey (Overlook Hospital) - Proliferating synovitis, diffuse type
New York (Long Island Jewish Medical Center) - Rosai-Dorfman disease
New York (Nassau University Medical Center) - Fibrous histiocytoma
New York (New York Presbyterian Hospital Residents) - Diffuse tenosynovial giant cell tumor
New York (Stony Brook University Hospital Residents) - Angiomatoid malignant fibrous histiocytoma
Ohio (Medical College of Ohio Residents) - Extranodal Rosai-Dorfman disease
Oklahoma (Tulsa) - Tenosynovial giant cell tumor
Oklahoma (Veterans Affairs Medical Center) - Extranodal Rosai-Dorfman disease
Pennsylvania (Allegheny General Hospital) - Rosai-Dorfman
Pennsylvania (Centre Community Hospital) - Malakoplakia
Pennsylvania (Lehigh Valley Hospital) - Histiocytosis (2)
Pennsylvania (Memorial Medical Center) - Alveolar rhabdomyosarcoma/pleomorphic liposarcoma
Pennsylvania (UPMC Health System) - Localized tenosynovial giant cell tumor
Pennsylvania (York Laboratory Associates) - Diffuse tenosynovial giant cell tumor (8)
Puerto Rico (University of Puerto Rico) - Extranodal Rosai-Dorfman disease
Rhode Island (RI Hospital Residents) - Tenosynovial giant cell tumor, diffuse type (soft tissue pigmented villonodular synovitis)
Texas (Propath Associates) - Epithelioid, hemangioma (2)
Texas (Scott & White Memorial Hospital) - Rosai-Dorfman disease
West Virginia (Greenbrier Valley Medical Center) - Myxoid liposarcoma
Wisconsin (Meriter Hospital) - Hibernoma
Alaska (Alaska Native Medical Center) - Diffuse giant cell tumor of tendon sheath
Australia (North Queensland Pathology) - Rosai-Dorfman disease, Diff Dx: Xanthogranulomatous pseudotumour
Australia (Royal Prince Alfred Hospital) - Diffuse type giant cell tumour (pigmented villonodular synovitis)
Canada (Foothills Medical Center) - Extranodal Rosai-Dorfman disease

Hong Kong (Hong Kong Baptist Hospital) - Embryonal rhabdomyosarcoma
Italy (Naples) - Extranodal Rosai-Dorfman disease
Jamaica (The University of the West Indies) - Tenosynovial giant cell tumour, diffuse type
Japan (Yamanashi Medical University) - Diffuse tenosynovitis (2); Liposarcoma (1)
Qatar (Hamad Medical Corporation) - Villonodular tenosynovitis

Case 9 - Diagnosis:

Diffuse tenosynovial giant cell tumor, left thigh
T-Y9100, M-47830

Case 9 - References:

Martin RC 2nd, Osborne DL, Edwards MJ, et al. Giant Cell Tumor of Tendon Sheath, Tenosynovial Giant Cell Tumor, and Pigmented Villonodular Synovitis. Defining the Presentation, Surgical Therapy and Recurrence. *Oncol Rep* 2000; 7(2):413-419.
Sommerhausen NS and Fletcher CD. Diffuse-Type Giant Cell Tumor. Clinicopathologic and Immunohistochemical Analysis of 50 Cases with Extraarticular Disease. *Am J Surg Pathol* 2000; 24(4):479-492.
Lee FY, Gebhardt MC, Keel SB, et al. A Discrete Soft Tissue Mass in the Distal Thigh of a 29-Year-Old Man. *Clin Orthop* 1998; 357: 247-250, 255-256.
Bertoni F, Unni KK, Beabout JW, et al. Malignant Giant Cell Tumor of the Tendon Sheaths and Joints (Malignant Pigmented Villonodular Synovitis). *Am J Surg Pathol* 1997; 21(2):153-163.
Choong PF, Willen H, Nilbert M, et al. Pigmented Villonodular Synovitis. Monoclonality and Metastasis-A Case for Neoplastic Origin? *Acta Orthop Scand* 1995; 66(1):64-68.

Case No. 10, Accession No. 29343

October 2003

Alameda (Alameda County Medical Center) - Splenic hamartoma
Bakersfield - Hemangioma
Baldwin Park (Kaiser Permanente) - Congested spleen (2); Angioma (1)
Fontana (Kaiser Permanente) - Extra-medullary hematopoiesis
Hayward/Fremont - Splenic hamartoma
Irvine (UC Irvine Residents) - Hairy cell leukemia
Laguna Beach (South Coast Medical Center) - Lymphoma
Long Beach - Littoral cell angioma (6); Splenic hamartoma (3)
Monterey (Community Hospital of the Monterey Peninsula) - Vascular neoplasm (hamartoma) vs. extra-medullary hematopoiesis
Mountain View (El Camino Pathology Group, Inc.) - Hamartoma
Oakland (Kaiser Permanente) - Littoral cell angioma (4)
Orange (Orange County Pathology Medical Group) - Splenic hamartoma
Sacramento (UC Davis Medical Center) - Accessory spleen
San Diego (Naval Medical Center) - Splenic hamartoma
San Francisco (San Francisco General Hospital) - Splenic hamartoma
Santa Rosa - Littoral cell angioma
Ventura - Splenic hamartoma
Arizona (Maryvale Medical Center) - Littoral cell angioma, spleen
Florida (Baptist Hospital) - Angiosarcoma
Florida (Munroe Regional Medical Center) - Pseudocyst
Florida (Pathology Associates) - Hemangioma
Florida (Winter Haven Hospital) - Myeloid metaplasia
Illinois (Northwestern Memorial Hospital) - Splenic marginal zone lymphoma
Louisiana (Louisiana State University Medical Center) - No significant pathologic change, spleen
Maryland (National Cancer Institute) - Extramedullary hematopoiesis
Maryland (National Naval Medical Center) - Littoral cell angioma (10); Hemangioma (3); Hamartoma (2)
Massachusetts (Berkshire Medical Center) - Littoral cell angioma
Massachusetts (New England Medical Center Residents) - Benign vascular lesion
Michigan (Oakwood Hospital) - Littoral cell angioma

Michigan (St. Joseph Mercy Hospital) - Littoral cell angioma
Minnesota (Fairview Southdale Hospital) - ? hemangioma
Mississippi (University of Mississippi) - Littoral cell angioma
New Jersey (Overlook Hospital) - Splenic hamartoma
New York (Long Island Jewish Medical Center) - Littoral cell angioma
New York (Nassau University Medical Center) - Extra-medullary hematopoietic tumor
New York (New York Presbyterian Hospital Residents) - Hamartoma
New York (Stony Brook University Hospital Residents) - Littoral cell angioma
Ohio (Medical College of Ohio Residents) - Littoral cell hemangioma
Oklahoma (Tulsa) - Splenic tissue, no lesion seen
Oklahoma (Veterans Affairs Medical Center) - Littoral cell angioma
Pennsylvania (Allegheny General Hospital) - Littoral cell angioma
Pennsylvania (Centre Community Hospital) - Littoral cell angioma
Pennsylvania (Lehigh Valley Hospital) - Cattleman's disease (1); Hemangioma (1)
Pennsylvania (Memorial Medical Center) - No answer
Pennsylvania (UPMC Health System) - Littoral cell angioma
Pennsylvania (York Laboratory Associates) - Accessory spleen, rule out very subtle splenic marginal zone lymphoma (8)
Puerto Rico (University of Puerto Rico) - No answer
Rhode Island (RI Hospital Residents) - Littoral cell angioma
Texas (ProPath Associates) - Myeloid metaplasia (2)
Texas (Scott & White Memorial Hospital) - Splenic hamartoma
West Virginia (Greenbrier Valley Medical Center) - Littoral cell angioma
Wisconsin (Meriter Hospital) - Splenic hamartoma
Alaska (Alaska Native Medical Center) - Splenic hamartoma
Australia (North Queensland Pathology) - Splenic hamartoma
Australia (Royal Prince Alfred Hospital) - ? splenic hamartoma-marginal zone splenic lymphoma
Canada (Foothills Medical Center) - Hamartoma
Hong Kong (Hong Kong Baptist Hospital) - Hemangioma
Italy (Naples) - Angiosarcoma
Jamaica (The University of the West Indies) - Accessory spleen
Japan (Yamanashi Medical University) - Splenic hamartoma (1); Hemangioma (2)
Qatar (Hamad Medical Corporation) - Hemangioma

Case 10 - Diagnosis:

Littoral cell angioma, spleen
T-07000, M-91200

Directors note: Due to paraffin block exhaustion, some slides may not be diagnostic of this lesion. We will send a representative slide of a different splenic hemangioma with the next case, and label it October 2003 "A", Case 10b.

Case 10 - References:

- Wilcox TM, Speer RW, Schlinkert RT, et al. Hemangioma of the Spleen. Presentation, Diagnosis, and Management. *J Gastrointest Surg* 2000; 4(6):611-613.
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 Castriota-Scanderbeg A, Mingarelli R, et al. Splenic Hemangioma in Turner Syndrome. A Case Report. *Pediatr Radiol* 1997; 27(11):894.
 Herman TE, McAlister PW, Dehner LP, et al. Beckwith-Wiedemann Syndrome and Splenic Hemangioma. Report of a Case. *Pediatr Radiol* 1997; 27(4):350-352.
 O'Malley ME, Wood BJ, Boland GW, et al. Percutaneous Imaging-Guided Biopsy of the Spleen. *AJR Am J Roentgenol* 1999; 172(3):661-665.
 Ramani M, Reinhold C, Semelka RC, Siegelman ES, et al. Splenic Hemangiomas and Hamartomas. MR Imaging Characteristics of 28 Lesions. *Radiol* 1997; 202(1):166-172.