"SOFT TISSUE PATHOLOGY"

Study Cases, Subscription A

May 2002

California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
Loma Linda University School of Medicine
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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 1 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: Gholam Pezeshpour, M.D.
Fontana, CA

Tissue from: Left posterior thigh
Accession #29280

Case No. 1 - May 2002

Clinical Abstract:
A painful mass developed in the left posterior thigh of this 16-year-old female.

Gross Pathology:
A 3.0 cm diameter well-circumscribed, partially encapsulated mass was removed from the deep muscle of the thigh.

SPECIAL STUDIES:
Vimentin positive
Actin positive
S-100 negative
Desmin negative
Cytokeratin negative

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

Tissue from: Right atrium
Accession #29366

Case No. 2 - May 2002

Clinical Abstract:
While being evaluated for fatigue, nausea and vague epigastric discomfort after eating, this 66-year-old male was discovered to have a mass in his right atrium.

Gross Pathology:
The slightly irregular to smooth glistening mass measured 7.0 x 6.0 x 2.5 cm and ranged in color from tan to yellow to red.
Contributor: LLUMC Pathology Group (wc)
Loma Linda, CA

Tissue from: Right shoulder

Clinical Abstract:
After several years of noting a mass in her right shoulder, this 32-year-old female opted to have it removed.

Gross Pathology:
A 10 cm disc of skin and subcutaneous tissue had a 4.2 x 3.8 x 3.2 cm centrally-placed raised nodule. The cut surface showed a homogeneous fleshy pink well circumscribed mass.

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Contributor: John McGill, M.D.
Pasadena, CA

Tissue from: Abdomen

Clinical Abstract:
This 52-year-old male was found to have an abdominal mass.

Gross Pathology:
The encapsulated abdominal mass measured 45.0 x 43.0 x 15.0 cm and was removed with attached spleen and a portion of diaphragm. The cut surface was variegated pale to golden yellow and gray. Although predominantly solid and lobulated, the parenchyma did show some cystic degeneration and focal ill-defined calcification.
Contributor: LLUMC Pathology Group (mp)  
Loma Linda, CA  

Tissue from: Right lower extremity  

Clinical Abstract:  
Over a three-month period, this 40-year-old woman noticed a rapidly growing mass on the lateral aspect below her right knee. An MRI showed a 10 x 4.8 x 7.3 cm mass in the posterior compartment of the right leg along the lateral aspect of the knee.

Gross Pathology:  
The 330 gram specimen included a 15.3 x 9.5 x 5.2 cm portion of lobulated adipose tissue with an overlying ellipse of skin. Within the adipose tissue was a 10.8 x 7.0 x 4.0 cm pink tan lobulated mass.

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Contributor: Chisa Aoyama, M.D.  
Sylmar, CA  

Tissue from: Abdominal wall  

Clinical Abstract:  
For seven months, this 60-year-old male missed multiple appointments for surgical resection of an enlarging abdominal wall mass. When it was exquisitely tender, he reported to the ER and the mass was excised.

Gross Pathology:  
The 256 gram, 14.0 x 6.5 x 7.5 cm irregular portion of fibrofatty tissue had a multinodular cut surface with fleshy areas and foci of necrosis.

SPECIAL STUDIES (Outside facility):  
Vimentin positive  
Keratin negative  
CD68 positive  
S-100 focal positivity
**Contributor:** Robert H. Zuch, M.D.  
Baldwin Park, CA

**Clinical Abstract:**  
After experiencing pain and swelling in the upper thigh for three months, this 24-year-old male was found to have a left anterior thigh mass. Following radiation therapy, a radical resection was performed.

**Gross Pathology:**  
The resected soft tissue specimen, with overlying skin, measured 18.0 x 13.0 x 5.5 cm, and contained a 4 x 5 x 7 cm bulging, bosselated gray-white mass.

**SPECIAL STUDIES (Outside facility):**  
- S-100: focally positive
- Vimentin: diffuse strong positivity
- CD99: diffuse strong positivity
- Cytokeratin: focal strong positivity
- EMA: focal strong positivity
- Desmin: negative

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**Contributor:** Howard Otto, M.D.  
Cheboygan, MI

**Clinical Abstract:**  
For many years this 71-year-old female experienced left lower quadrant pain. After an exhaustive but non-diagnostic work-up, she requested an exploratory laparotomy. At surgery, a firm mass the ‘size of a hardball’ was found in the left mid-retroperitoneum. It was not associated with the mesentery, the aorta or the left ureter.

**Gross Pathology:**  
The 52 gram, 6.0 x 5.5 x 4.0 cm firm nodule had a gritty gray whorled cut surface.
Contributor: LLUMC Pathology Group (cz)  
Loma Linda, CA  

Tissue from: Abdominal wall  

Accession #29094  

Clinical Abstract: This 9-year-old male was found to have an abdominal wall mass, felt to be a recurrence of a previously resected tumor associated with the urinary bladder.

Gross Pathology: The 21 gram, 4.5 x 4.5 x 3.0 cm portion of fibroadipose tissue contained a 2.7 x 2.4 x 2.4 cm well-circumscribed white whorled nodule.

SPECIALS STUDIES:  
Desmin focally positive

Contributor: Farooq Ali, M.D.  
Ventura, CA  

Tissue from: Leg  

Accession #29193  

Clinical Abstract: A previously healthy 19-month-old male developed an enlarging solid subcutaneous mass over the lateral aspect of the left lower leg.

Gross Pathology: A portion of skin with underlying subcutaneous tissue and deep fascia contained a rubbery, oval, circumscribed mass measuring 5.0 x 4.8 cm x 3.0 cm. The mass appeared to be contiguous with both dermis and the deep fascia.

SPECIAL STUDIES:  
S-100 negative  
CD34 positive
SOFT TISSUE PATHOLOGY

Minutes – Subscription A

May 2002

SUGGESTED READING (General Topics from Recent Literature):


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
**Case 1 - Diagnosis:**

Nodular fasciitis, thigh

T-Y9100, M-76130

**Case 1 – References:**


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**Case No. 2, Accession No. 29366**

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

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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 (Noah Owens Pathology Clinic) - 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:

Case No. 3, Accession No. 29380

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 (UC Irvine 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 - Neurilemmona (schwannoma)

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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 (Evansville 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) - Dermatomyofibroma
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.

Case No. 4, Accession No. 29182

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

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Lon s 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:

Case No. 5, Accession No. 29096

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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)
Case 5 - Diagnosis:
Myxoid liposarcoma, lower extremity
T-Y1800, M-88523

Case 5 - References:

Case No. 6, Accession No. 28888

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)

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CTTR, May 2002 “Minutes” (Subscription A)
Malignant fibrous histiocytoma

Diagnosis:
- Pleomorphic sarcoma
- High grade sarcoma
- Malignant fibrous histiocytoma (pleomorphic)
- Malignant peripheral nerve sheath tumor with epithelioid features
- Malignant fibrous histiocytoma

References:

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:


**Case No. 7, Accession No. 29118**

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<tr>
<th>Bay Area</th>
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<td>Hayward (St. Rose Hospital)</td>
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<tr>
<td>Oakland (Kaiser Permanente)</td>
<td>Synovial sarcoma</td>
</tr>
<tr>
<td>Orange (UCI Medical Center Residents)</td>
<td>Synovial sarcoma</td>
</tr>
<tr>
<td>Riverside/Moreno Valley</td>
<td>Synovial sarcoma (1); Synovial sarcoma, monophasic (1)</td>
</tr>
<tr>
<td>Sacramento (UCDMC)</td>
<td>Synovial sarcoma</td>
</tr>
<tr>
<td>San Diego (Naval Medical Center)</td>
<td>Synovial sarcoma (2)</td>
</tr>
<tr>
<td>Santa Barbara (Cottage Hospital)</td>
<td>Monophasic synovial sarcoma</td>
</tr>
<tr>
<td>Santa Clara</td>
<td>Synovial sarcoma</td>
</tr>
<tr>
<td>Santa Rosa</td>
<td>Monophasic fibrous synovial sarcoma (3)</td>
</tr>
<tr>
<td>Ventura (Unilab)</td>
<td>Malignant peripheral nerve sheath tumor (1); Ewing’s sarcoma (PNET) (1)</td>
</tr>
<tr>
<td>Alabama (BMC Princeton)</td>
<td>Monophasic synovial sarcoma</td>
</tr>
<tr>
<td>Alaska, Anchorage</td>
<td>Synovial sarcoma</td>
</tr>
<tr>
<td>Colorado (Lutheran Medical Center)</td>
<td>? epithelioid sarcoma</td>
</tr>
<tr>
<td>Florida (Baptist Medical Center)</td>
<td>Synovial cell sarcomas vs. nerve sheath tumor (1); Synovial sarcoma (monophasic (1); Synovial sarcoma (2))</td>
</tr>
<tr>
<td>Florida (Munroe Regional Medical Center)</td>
<td>Synovial sarcoma</td>
</tr>
<tr>
<td>Florida (Winter Haven Hospital)</td>
<td>Low grade fibromyxoid sarcoma</td>
</tr>
<tr>
<td>Illinois, Chicago</td>
<td>Synovial sarcoma</td>
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<tr>
<td>Illinois (Evanston Hospital)</td>
<td>Synovial sarcoma</td>
</tr>
<tr>
<td>Indiana (Fort Wayne)</td>
<td>Monophasic fibrous synovial sarcoma, left anterior hip</td>
</tr>
<tr>
<td>Louisiana (Louisiana State University Medical Center)</td>
<td>Favor synovial sarcoma</td>
</tr>
<tr>
<td>Maryland, Bethesda</td>
<td>Synovial sarcoma (8)</td>
</tr>
<tr>
<td>Maryland (Johns Hopkins Hospital Residents)</td>
<td>Synovial sarcoma with treatment effect (1); Synovial sarcoma (1)</td>
</tr>
<tr>
<td>Maryland (NIH Pathology Residents)</td>
<td>Synovial sarcoma, monophasic</td>
</tr>
<tr>
<td>Massachusetts (Berkshire Medical Center)</td>
<td>Synovial sarcoma</td>
</tr>
<tr>
<td>Massachusetts (New England Medical Center)</td>
<td>Synovial sarcoma, biphasic</td>
</tr>
<tr>
<td>Michigan (Oakwood Hospital)</td>
<td>Synovial sarcoma</td>
</tr>
<tr>
<td>Michigan (St. Joseph Mercy Hospital)</td>
<td>Synovial sarcoma</td>
</tr>
<tr>
<td>Missouri (TMC, Kansas City)</td>
<td>Extraskeletal myxoid chondrosarcoma</td>
</tr>
<tr>
<td>Nebraska (Creighton Pathology Residents)</td>
<td>Synovial sarcoma, monophasic</td>
</tr>
<tr>
<td>New Jersey (Overlook Hospital)</td>
<td>Synovial sarcoma (3)</td>
</tr>
<tr>
<td>New York (Long Island Jewish Medical Center)</td>
<td>Synovial sarcoma, monophasic type</td>
</tr>
<tr>
<td>New York (Northport VA Medical Center)</td>
<td>Monophasic synovial sarcoma</td>
</tr>
<tr>
<td>New York (Stony Brook University Hospital Residents)</td>
<td>Synovial sarcoma, monophasic</td>
</tr>
<tr>
<td>Pennsylvania (Allegheny General Hospital)</td>
<td>Synovial sarcoma</td>
</tr>
<tr>
<td>Pennsylvania (Lehigh Valley Hospital)</td>
<td>Neurogenic sarcoma</td>
</tr>
<tr>
<td>Pennsylvania (Memorial Medical Center Residents)</td>
<td>Monophasic synovial</td>
</tr>
<tr>
<td>Puerto Rico (University of Puerto Rico)</td>
<td>Monophasic synovial sarcoma</td>
</tr>
</tbody>
</table>
Texas Lubbock - Synoviosarcoma
Texas (Propath Services) - Synovial cell sarcoma (2)
Texas, San Antonio - Extraskeletal 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) - Extraskeletal 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:

Case No. 8, Accession No. 29073

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

May 2002

CTTR, May 2002 “Minutes” (Subscription A)
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:


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) (1); 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
Case 9 - Diagnosis:
Embryonal rhabdomyosarcoma, spindle cell type, abdominal wall
T-Y4100, M-89103

Case 9 - References:

Case No. 10, Accession No. 29193

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 myofiromatosis
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/infantile 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)

CTTR, May 2002 “Minutes” (Subscription A)
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(Johns Hopkins Hospital Resident) - 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 (S. 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:


