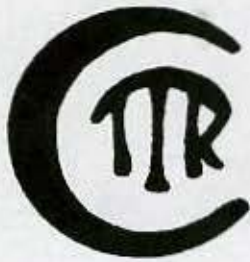


1177

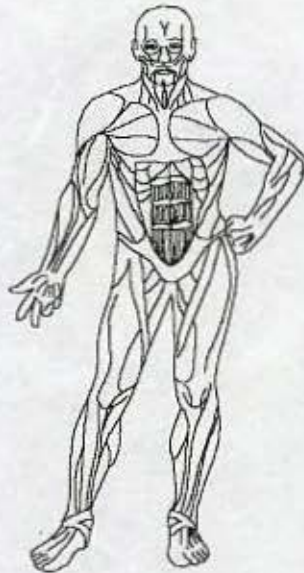


CALIFORNIA
TUMOR TISSUE REGISTRY

“SOFT TISSUE PATHOLOGY”

Study Cases, Subscription A

April, 2004



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
(909) 558-4788
FAX: (909) 558-0188
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: Arthur Williams, M.D.
San Gabriel, CA**

Case No. 1 - April 2004

Tissue from: Left thigh

Accession #29698

Clinical Abstract:

For two months this 45-year-old female observed a mass on her left thigh which seemed to be enlarging. Workup revealed a tumor involving the muscle of the left quadriceps. The mass was excised.

Gross Pathology:

The 40 gram, ovoid, very firm, sharply circumscribed neoplasm was 6.5 x 5.0 x 4.5 cm and had a pale yellow-white cut surface.

SPECIAL STUDIES:

Pancytokeratin	strongly positive
Vimentin	strongly positive
S100	negative
HMB45	negative
CD3 and CD20	negative
CD30	negative
CD34	strongly positive
CD31	positive
Factor VIII	focally positive

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

Case No. 2 - April 2004

Tissue from: Abdomen

Accession #29667

Clinical Abstract:

This 19-year-old female had a history of pancreatitis with a pancreatic cutaneous fistula. An enlarging pelvic mass was thought to be due to retroperitoneal inflammation. Because of continued discomfort and enlargement, the mass was excised.

Gross Pathology:

The 3,350 gram brown-white fibrous mass was 36.9 x 29.2 x 8.3 cm and had attached segments of small bowel.

SPECIAL STUDIES:

CD117	positive
CD30	positive
ER/PR	negative
CD34	negative

Contributor: Gholam Pezeshkpour, M.D.
Fontana, CA

Case No. 3 - April 2004

Tissue from: Great toe

Accession #29681

Clinical Abstract:

A mass on the left great toe of this 57-year-old female led to an amputation at the metatarsophalangeal joint.

Gross Pathology:

The yellow-tan, multilobular, gelatinous mass measured 3.5 x 2.2 x 2.5 cm.

Contributor: Alexander K. Lyster, M.D.
Victoria, TX

Case No. 4 - April 2004

Tissue from: Intra-abdominal

Accession #29706

Clinical Abstract:

An intra-abdominal tumor was noted in this 45-year-old female.

Gross Pathology:

The 35.0 cm diameter tumor included gray gelatinous tissue.

Contributor: Alexander K. Lyster, M.D.
Victoria, TX

Case No. 5 - April 2004

Tissue from: Groin

Accession #29709

Clinical Abstract:

This 56-year-old female presented with an ulcerating mass in her left groin.

Gross Pathology:

The 13 x 8 x 2 portion of skin and subcutis had a 9.0 x 5.5 x 4.0 cm area of multiple confluent, firm, gray nodules ranging in size from 0.5 to up to 6.0 cm in greatest diameter. The tumor appeared to blend with the adjacent fibroadipose tissue.

SPECIAL STUDIES:

CD34 positive

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

Case No. 6 - April 2004

Tissue from: Right kidney

Accession #29641

Clinical Abstract:

Following discovery of a suspicious lung nodule, a CT scan revealed a right renal mass in this 53-year-old female. Eight years earlier, she had had a hysterectomy for a leiomyosarcoma. A laparoscopic right nephrectomy was performed.

Gross Pathology:

The 90.5 gram specimen consisted of six pieces of kidney including a 4.0 x 3.5 x 3.0 cm firm mass.

SPECIAL STUDIES:

Pankeratin	negative
EMA	negative
S100	negative
Chromogranin	negative
Synaptophysin	negative
Vimentin	positive
Desmin	positive
SMA	positive
MSA	positive
CD10	negative
Estrogen & Progesterone receptors	positive

Contributor: Jozef Kollin, M.D.
Lakewood, CA

Case No. 7 - April 2004

Tissue from: Right index finger

Accession #29601

Clinical Abstract:

This 33-year-old female had a progressively enlarging mass on her right palm and index finger that was present for several months.

Gross Pathology:

The yellowish lobulated mass measured 3.0 x 2.5 x 1.7 cm.

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

Case No. 8 - April 2004

Tissue from: Back

Accession #29652

Clinical Abstract:

A mass was taken from the back of this 48-year-old female.

Gross Pathology:

The soft tissue mass was 4.0 cm in greatest diameter.

SPECIAL STUDIES:

EMA	negative
Pan-cytokeratin	negative
CD31	negative
S100	negative
SMA	focally positive
HHF-35	focally positive
Myo-D1	positive
CD57 (Leu-7)	positive

Contributor: LLUMC Pathology Group (rc)
Loma Linda, CA

Case No. 9 - April 2004

Tissue from: Back

Accession #29110

Clinical Abstract:

For two months this 54-year-old male noticed an expanding mass on his posterior neck.

Gross Pathology:

The 144 gram, 13.5 x 11.0 x 3.5 cm red-tan, soft tissue specimen contained a centrally located 8.5 x 7.2 x 2.4 cm hemorrhagic, firm, white tumor.

SPECIAL STUDIES:

Immunohistochemistries were negative for markers of epithelial, melanocytic, vascular or muscle differentiation.

Contributor: Jeree A Stroh, M.D.
Camarillo, CA

Case No. 10 - April 2004

Tissue from: Left anterior chest

Accession #24073

Clinical Abstract:

For 20 years this 53-year-old female had noticed a soft tissue mass in the left upper chest wall. When new growth in tumor size was accompanied by skin deformity, the patient elected to have it removed.

Gross Pathology:

The 230 gram soft yellow-tan tissue mass was 11.0 x 9.0 x 4.0 cm.

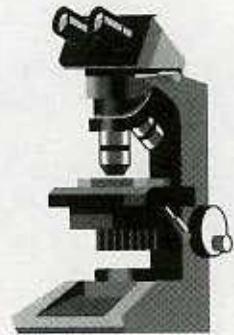


CALIFORNIA
TUMOR TISSUE REGISTRY

SOFT TISSUE PATHOLOGY

Minutes – Subscription A

April, 2004



SUGGESTED READING (General Topics from Recent Literature):

- Fetsch JF, Davis Jr. CJ, Miettinen M and Sesterhenn IA. Leiomyosarcoma of the Penis. A Clinicopathologic Study of 14 Cases with Review of the Literature and Discussion of the Differential Diagnosis. *Am J Surg Pathol*; 2004;28(1):115-125.
- DuBay D, Cimmino V, Lowe L, et al. Low Recurrence Rate after Surgery for Dermatofibrosarcoma Protuberans. A Multidisciplinary Approach From a Single Institution. *Cancer* 2004; 100:1008-1016.
- Kooby DA, Antonescu CR, Brennan MF, et al. Atypical Lipomatous Tumor/Well Differentiated Liposarcoma of the Extremity and Trunk Wall. Importance of Histological Subtype with Treatment Recommendations. *Ann Surg Oncol* 2004; 11:78-84.

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
(909) 558-4788
FAX: (909) 558-0188
E-mail: cttr@linkline.com
Web site & Case of the Month: www.cttr.org

FILE DIAGNOSES

CTTR Subscription A

April, 2004

Case 1:

Epithelioid angiosarcoma, thigh
T-Y9100, M-91203

Case 2:

Mesenteric fibromatosis
T-Y4100, M-76100

Case 3:

Acral myxoinflammatory fibroblastic sarcoma, great toe
T-Y9800, M-88003

Case 4:

Extraskeletal myxoid chondrosarcoma, intra-abdominal
T-Y4100, M-92203

Case 5:

Dermatofibrosarcoma protuberans, groin
T-Y7000, M-88323

Case 6:

Epithelioid leiomyosarcoma, kidney
T-71000, M-88903

Case 7:

Localized tenosynovial giant cell tumor (giant cell tumor of tendon sheath), finger
T-Y8800, M-40000

Case 8:

Leiomyosarcoma of soft tissue, back
T-Y1100, M-88903

Case 9:

High grade pleomorphic sarcoma (with phenotype of so-called "MFH"), back
T-Y1100, M-88023

Case 10:

Pleomorphic lipoma, anterior chest wall
T-Y2130, M-88500

Arcadia - Epithelioid hemangioendothelioma
Bakersfield - Angiosarcoma
Baldwin Park (Kaiser Permanente) - Epithelioid hemangioendothelioma (2)
Fontana (Kaiser Permanente) - Epithelioid angiosarcoma
Hayward/Fremont - Epithelioid angiosarcoma
Laguna Beach (South Coast Medical Center) - Angiosarcoma
Long Beach - Angiosarcoma (8)
Mountain View (El Camino Pathology Group) - Epithelioid angiosarcoma, high grade
Oakland (Kaiser Permanente) - Epithelioid angiosarcoma (6)
Orange (Orange County Pathology Medical Group) - Epithelioid sarcoma
Sacramento (UC Davis Medical Center) - Epithelioid angiosarcoma
San Diego (Naval Medical Center) - Epithelioid angiosarcoma
San Francisco (University of California) - Epithelioid sarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Epithelioid angiosarcoma (2); Angiosarcoma (1)
Ventura - Undifferentiated carcinoma, metastatic
Alaska (Alaska Native Medical Center) - Angiosarcoma
Colorado (Evergreen) - Epithelioid hemangioendothelioma
Colorado (Lutheran Medical Center) - Epithelioid angiosarcoma
Florida (Baptist Hospital) - Epithelioid angiosarcoma vs. epithelioid monophasic synovial sarcoma with hemangiopericytoma features (1); Epithelioid angiosarcoma (1); Angiosarcoma (3)
Florida (Munroe Regional Medical Center) - Epithelioid angiosarcoma
Florida (Tallahassee) - Epithelioid angiosarcoma
Florida (Winter Haven Hospital) - Epithelioid angiosarcoma
Illinois (Burr Ridge) - Angiosarcoma, high grade
Illinois (Evanston Hospital) - Epithelioid angiosarcoma
Indiana (Howard Community Hospital) - Epithelioid angiosarcoma
Louisiana (Louisiana State University Medical Center) - Epithelioid angiosarcoma
Maryland (National Naval Medical Center) - Angiosarcoma, epithelioid
Massachusetts (Berkshire Medical Center) - Epithelioid angiosarcoma, grade III/III
Massachusetts (New England Medical Center Residents) - Angiosarcoma
Michigan (Oakwood Hospital) - Epithelioid angiosarcoma
Michigan (St. Joseph Mercy Hospital) - Epithelioid angiosarcoma
Minnesota (Fairview Southdale Hospital) - Angiosarcoma
Nebraska (Creighton University School of Medicine Residents) - Epithelioid angiosarcoma
New Jersey (Overlook Hospital) - Angiosarcoma, epithelioid variant
New York (Long Island Jewish Hospital) - Angiosarcoma
New York (Nassau University Medical Center) - Angiosarcoma
New York, New York - Angiosarcoma
New York (NY Presbyterian Hospital) - High grade angiosarcoma
New York (Stony Brook University Hospital Residents) - Epithelioid angiosarcoma
North Carolina (Mountain Area Pathology) - Epithelioid angiosarcoma (4)
Ohio (McCullough-Hyde Memorial Hospital) - Angiosarcoma
Pennsylvania (Allegheny General Hospital) - Poorly differentiated angiosarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Angiosarcoma
Pennsylvania (Lehigh Valley Hospital) - Epithelioid angiosarcoma
Pennsylvania (York Hospital) - Angiosarcoma (7)
Rhode Island (RI Hospital Residents) - Epithelial angiosarcoma
Texas (Lubbock) - Angiosarcoma
Texas (ProPath Associates) - Epithelioid angiosarcoma (2)
Texas (San Antonio) - High grade epithelioid angiosarcoma
Texas (Scott & White Memorial Hospital) - Epithelioid angiosarcoma
Texas (University of Texas Medical Branch) - Epithelioid angiosarcoma
Wyoming (Greenbrier Valley Medical Center) - Epithelioid sarcoma
Australia (North Queensland Pathology) - Epithelioid angiosarcoma
Australia (Royal Prince Alfred Hospital) - Epithelioid angiosarcoma

Canada (Foothills Medical Center) - Epithelioid angiosarcoma
Hong Kong (Hong Kong Baptist Hospital) - Angiosarcoma
Italy (Naples Naval Medical) - Epithelioid angiosarcoma
Japan, Chiba - Epithelioid hemangioendothelioma
Netherlands, Amsterdam - Epithelioid angiosarcoma
Qatar (Hamad Medical Corporation) - Epithelioid angiosarcoma
Saudi Arabia, Alhassa - Epithelioid angiosarcoma
Saudi Arabia (King Khalid University) - Epithelioid angiosarcoma

Case 1 - Diagnosis:

Epithelioid angiosarcoma, thigh
T-Y9100, M-91203

Consultation: Dr. Parakrama Chandrasoma, M.D., AD Path Labs. "High grade epithelioid angiosarcoma, left thigh".

Case 1 - References:

Rossi S and Fletcher CD. Angiosarcoma Arising in Hemangioma/Vascular Malformation. Report of Four Cases and Review of the Literature. *Am J Surg Pathol* 2002; 26(10):1319-1329.
Mentzel T and Katenkamp D. Intraneural Angiosarcoma and Angiosarcoma Arising in Benign and Malignant Peripheral Nerve Sheath Tumours. Clinicopathological and Immunohistochemical Analysis of Four Cases. *Histopathol* 1999; 35(2): 114-120.
Meis-Kindblom JM and Kindblom LG. Angiosarcoma of Soft Tissue. A Study of 80 Cases. *Am J Surg Pathol* 1998; 22(6): 683-697.
Trassard M, Le Doussal V, et al. Angiosarcoma Arising in a Solitary Schwannoma (Neurilemoma) of the Sciatic Nerve. *Am J Surg Pathol* 1996; 20(11):1412-1417.

Case No. 2, Accession No. 29667

April 2004

Arcadia - GIST
Bakersfield - Gastrointestinal stromal tumor
Baldwin Park (Kaiser Permanente) - Gastrointestinal stromal tumor (GIST) (2)
Fontana (Kaiser Permanente) - GIST vs. fibromatosis
Hayward/Fremont - GIST (possibly extra GI)
Laguna Beach (South Coast Medical Center) - Fibromatosis
Long Beach - Mesenteric fibromatosis (8)
Mountain View (El Camino Pathology Group) - GIST
Oakland (Kaiser Permanente) - GI stromal tumor (6)
Orange (Orange County Pathology Medical Group) - GIST
Sacramento (UC Davis Medical Center) - Fibromatosis
San Diego (Naval Medical Center) - Mesenteric fibromatosis
San Francisco (University of California) - Desmoid fibromatosis
Santa Rosa (Santa Rosa Memorial Hospital) - Gastrointestinal stromal tumor (3)
Ventura - Gastrointestinal stromal tumor
Alaska (Alaska Native Medical Center) - Reactive nodular fibrous pseudotumor
Colorado (Evergreen) - Intra-abdominal fibromatosis
Colorado (Lutheran Medical Center) - Pelvic fibromatosis
Florida (Baptist Hospital) - Low grade fibromyxoid sarcoma (1); GIST consistent with myxoid change (1); (GIST) (2); Extraintestinal GIST (1)
Florida (Munroe Regional Medical Center) - Gastrointestinal stromal tumor
Florida (Tallahassee) - Fibromatosis
Florida (Winter Haven Hospital) - Desmoid fibromatosis
Illinois (Burr Ridge) - GIST with myxoid change
Illinois (Evanston Hospital) - GIST vs. myofibroblastic tumor
Indiana (Howard Community Hospital) - Retroperitoneal fibrosis
Louisiana (Louisiana State University Medical Center) - Fibromatosis
Maryland (National Naval Medical Center) - Fibromatosis
Massachusetts (Berkshire Medical Center) - Fibromatosis

Massachusetts (New England Medical Center Residents) - Desmoid fibromatosis
Michigan (Oakwood Hospital) - Aggressive angiomyxoma
Michigan (St. Joseph Mercy Hospital) - Gastrointestinal stromal tumor (GIST)
Minnesota (Fairview Southdale Hospital) - Gastrointestinal stromal tumor
Nebraska (Creighton University School of Medicine Residents) - Fibromyxoma (6); GIST (4)
New Jersey (Overlook Hospital) - GIST
New York (Long Island Jewish Hospital) - Fibromatosis
New York (Nassau University Medical Center) - GIST
New York, New York - Favor fibromatosis
New York (NY Presbyterian Hospital) - GIST
New York (Stony Brook University Hospital Residents) - Intra-abdominal fibromatosis (desmoid)
North Carolina (Mountain Area Pathology) - GIST (2); Fibromatosis (2)
Ohio (McCullough-Hyde Memorial Hospital) - GIST (GI stromal tumor)
Pennsylvania (Allegheny General Hospital) - Fibromatosis
Pennsylvania (Conemaugh Memorial Medical Center) - GIST
Pennsylvania (Lehigh Valley Hospital) - Gastrointestinal stromal tumor
Pennsylvania (York Hospital) - GIST (5)
Rhode Island (RI Hospital Residents) - Mesenteric fibromatosis
Texas (Lubbock) - Aggressive angiomyxoma
Texas (ProPath Associates) - Gastrointestinal stromal tumor (2)
Texas (San Antonio) - Intra-abdominal desmoid fibromatosis
Texas (Scott & White Memorial Hospital) - GIST
Texas (University of Texas Medical Branch) - Myofibroblastic tumor
Wyoming (Greenbrier Valley Medical Center) - GI stromal tumor
Australia (North Queensland Pathology) - GIST, differential diagnosis, fibromatosis
Australia (Royal Prince Alfred Hospital) - Intra-abdominal fibromatosis
Canada (Foothills Medical Center) - Fibromatosis
Hong Kong (Hong Kong Baptist Hospital) - Fibromatosis
Italy (Naples Naval Medical) - Gastrointestinal stromal tumor
Japan, Chiba - Gastrointestinal stromal tumor
Netherlands, Amsterdam - Gastrointestinal stromal tumor (GIST)
Qatar (Hamad Medical Corporation) - Gastrointestinal stromal tumor
Saudi Arabia, Alhassa - Gastrointestinal stromal tumor
Saudi Arabia (King Khalid University) - Gastrointestinal tumor

Case 2 - Diagnosis:

Mesenteric fibromatosis

T-Y4100, M-76100

Case 2 - References:

- Rodriguez JA, Guarda LA and Rosai J. Mesenteric Fibromatosis with Involvement of the Gastrointestinal Tract. A GIST Simulator. A Study of 25 Cases. *Am J Clin Pathol* 2004; 121(1):93-98.
- Tonelli F, Ficari F, Valanzano R, et al. Treatment of Desmoids and Mesenteric Fibromatosis in Familial Adenomatous Polyposis with Raloxifene. *Tumori* 2003; 89(4):391-396.
- Griever GE and van Unnik JG. Fibromatosis of the Abdominal Wall. *JBR-BTR* 2003; 86(3):162-163.
- Imai I, Ikeya S, Takahashi M, et al. A Case of Intra-Abdominal Mesenteric Desmoid tumor with Feature of Giant Cystic Component. *Nippon Shokakibyo Gakkai Zasshi* 2002; 99(11):1388-1393. (Japanese)
- Montgomery E, Torbenson MS, Kaushal M, et al. Beta-Catenin Immunohistochemistry Separates Mesenteric Fibromatosis from Gastrointestinal Stromal Tumor and Sclerosing Mesenteritis. *Am J Surg Pathol* 2002; 26(10):1296-1301.
- Bus PJ, Verspaget HW, van Kriekken JH, et al. Treatment of Mesenteric Desmoid Tumours with the Anti-Oestrogenic Agent Toremifene. Cases Histories and an Overview of the Literature. *Eur J Gastroenterol Hepatol* 1999; 11(10): 1179-1183.
- Al Jadaan SA and Al Rabeeah A. Mesenteric Fibromatosis. Case Report and Literature Review. *J Pediatr Surg* 1999; 34(7):1130-1132.

Arcadia - Acral myxoinflammatory fibroblastic sarcoma
Bakersfield - Myxoid chondrosarcoma
Baldwin Park (Kaiser Permanente) - Acral myxoid inflammatory fibroblastic sarcoma (2)
Fontana (Kaiser Permanente) - Myxoinflammatory fibroblastic sarcoma
Hayward/Fremont - Extra-skeletal myxoid chondrosarcoma (chordoid sarcoma)
Laguna Beach (South Coast Medical Center) - Adenocarcinoma vs. malignant chondroid syringoma vs. signet ring cell melanoma
Long Beach - Myxoid chondrosarcoma (8)
Mountain View (El Camino Pathology Group) - Acral myxoinflammatory fibroblastic sarcoma
Oakland (Kaiser Permanente) - Myxoid extraskelatal chondrosarcoma (6)
Orange (Orange County Pathology Medical Group) - Myxoid chondrosarcoma
Sacramento (UC Davis Medical Center) - Myxoinflammatory fibroblastic sarcoma
San Diego (Naval Medical Center) - Inflammatory myxohyaline tumor
San Francisco (University of California) - Extra-skeletal myxoid chondrosarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Myxochondrosarcoma (1); Myxoid chondrosarcoma (1); Inflammatory myxo-hyaline tumor of distal extremities (1)
Ventura - Myxoid malignant fibrous histiocytoma
Alaska (Alaska Native Medical Center) - Myxoid MFH (2); Chondromyxoid fibroma (1)
Colorado (Evergreen) - Myxoid MFH
Colorado (Lutheran Medical Center) - Inflammatory myxohyaline tumor
Florida (Baptist Hospital) - Myxoid malignant fibrous histiocytoma (4); Chordoid sarcoma vs. myxoid MFH (1)
Florida (Munroe Regional Medical Center) - Clear cell sarcoma
Florida (Tallahassee) - Myxoid synovial sarcoma, myxoid sarcoma
Florida (Winter Haven Hospital) - Pleomorphic liposarcoma
Illinois (Burr Ridge) - Fibrous histiocytoma
Illinois (Evanston Hospital) - Myxoid MFH
Indiana (Howard Community Hospital) - Myxoid chondrosarcoma
Louisiana (Louisiana State University Medical Center) - Atypical myxofibroma
Maryland (National Naval Medical Center) - Myxoid malignant fibrous histiocytoma (8); Myxoid liposarcoma (2)
Massachusetts (Berkshire Medical Center) - Liposarcoma, Grade III/III
Massachusetts (New England Medical Center Residents) - Myoepithelioma
Michigan (Oakwood Hospital) - Myxoid chondrosarcoma
Michigan (St. Joseph Mercy Hospital) - Myxoid chondrosarcoma
Minnesota (Fairview Southdale Hospital) - Myxoid chondrosarcoma
Nebraska (Creighton University School of Medicine Residents) - Intermediate grade sarcoma with cartilaginous and lipomatous features (9); Gout tophus (1)
New Jersey (Overlook Hospital) - Low grade myxosarcoma
New York (Long Island Jewish Hospital) - Myxofibrosarcoma
New York (Nassau University Medical Center) - Myxofibrosarcoma
New York, New York - Malignant neoplasm with myxoid background favor clear cell sarcoma/melanoma
New York (NY Presbyterian Hospital) - Myxoinflammatory fibrosarcoma
New York (Stony Brook University Hospital Residents) - Extraskelatal myxoid chondrosarcoma
North Carolina (Mountain Area Pathology) - Myxoid chondrosarcoma (4)
Ohio (McCullough-Hyde Memorial Hospital) - Myxoid liposarcoma
Pennsylvania (Allegheny General Hospital) - Inflammatory myxohaline tumor of distal extend
Pennsylvania (Conemaugh Memorial Medical Center) - Chondroblastic osteosarcoma
Pennsylvania (Lehigh Valley Hospital) - Inflammatory myxohyaline tumor
Pennsylvania (York Hospital) - Myxoid melanoma (7)
Rhode Island (RI Hospital Residents) - Myxoinflammatory fibroblastic sarcoma
Texas (Lubbock) - Chondrosarcoma
Texas (ProPath Associates) - Chondrosarcoma (1); Chordoid sarcoma (1)
Texas (San Antonio) - Myxoinflammatory fibroblastic sarcoma (WHO) vs. intermediate grade myxofibrosarcoma ("myxoid MFH")
Texas (Scott & White Memorial Hospital) - Myxoid liposarcoma
Texas (University of Texas Medical Branch) - Superficial acral fibromyxoma
Wyoming (Greenbrier Valley Medical Center) - Myxofibrosarcoma
Australia (North Queensland Pathology) - Inflammatory myxohyaline tumour of distal extremities

Australia (Royal Prince Alfred Hospital) - Myxofibrosarcoma
Canada (Foothills Medical Center) - Chordoma periphicum
Hong Kong (Hong Kong Baptist Hospital) - Myxofibrosarcoma
Italy (Naples Naval Medical) - Inflammatory myxohyaline tumor of the distal extremities
Japan, Chiba - Inflammatory myxohyaline tumor
Netherlands, Amsterdam - Malignant melanoma
Oatar (Hamad Medical Corporation) - Myxosarcoma, low grade; Malignant myoepithelioma (low grade)
Saudi Arabia, Alhassa - Myxofibrosarcoma (low grade myxoid fibrosarcoma)
Saudi Arabia (King Khalid University) - Myxoid malignant fibrous histiocytoma

Case 3 - Diagnosis:

Acral myxoinflammatory fibroblastic sarcoma, great toe
T-Y9800, M-88003

Case 3 - References:

Jurcic V, Zidar A, Montiel MD, et al. Myxoinflammatory Fibroblastic Sarcoma. A Tumor Not Restricted to Acral Sites. *Ann Diagn Pathol* 2002; 6(5):272-280.
Fetsch JF, Laskin WB and Miettinen M. Superficial Acral Fibromyxoma. A Clinicopathologic and Immunohistochemical Analysis of 37 Cases of a Distinctive Soft Tissue Tumor with a Predilection for the Fingers and Toes. *Hum Pathol* 2001; 32(7):704-714.
Sakaki M, Hirokawa M, Wakatsuki S, et al. Acral Myxoinflammatory Fibroblastic Sarcoma. A Report of Five Cases and Review of the Literature. *Virchows Arch* 2003; 442(1):25-30.

Case No. 4, Accession No. 29706

April 2004

Arcadia - Chondrosarcoma, high grade
Bakersfield - Chondrosarcoma
Baldwin Park (Kaiser Permanente) - Chondrosarcoma (2)
Fontana (Kaiser Permanente) - Extra-skeletal chondrosarcoma
Hayward/Fremont - Mesenchymal chondrosarcoma
Laguna Beach (South Coast Medical Center) - Extraskelatal chondrosarcoma vs. myxoid liposarcoma
Long Beach - Extra-skeletal chondrosarcoma (8)
Mountain View (El Camino Pathology Group) - Leiomyosarcoma vs. extraskelatal myxoid chondrosarcoma
Oakland (Kaiser Permanente) - Chondrosarcoma (6)
Sacramento (UC Davis Medical Center) - Parachordoma
San Diego (Naval Medical Center) - Malignant neoplasm, NOS
San Francisco (University of California) - Mesenchymal chondrosarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Chondrosarcoma (1); Extraskelatal chondrosarcoma (1); Liposarcoma, round cell type, vs. extraskelatal myxoid chondrosarcoma (1)
Ventura - Poorly differentiated carcinoma
Alaska (Alaska Native Medical Center) - Myxoid liposarcoma (2); Chondrosarcoma (1)
Colorado (Evergreen) - Extragastrointestinal stromal tumor
Colorado (Lutheran Medical Center) - Extraskelatal myxoid chondrosarcoma
Florida (Baptist Hospital) - Epithelioid stromal sarcoma (1); Undifferentiated stromal sarcoma (probably uterine) (1); Sarcoma with chondroid features (1); Chordoma (1)
Florida (Munroe Regional Medical Center) - Chondrosarcoma, high grade
Florida (Tallahassee) - Round cell liposarcoma, extraskelatal myxoid chondrosarcoma
Florida (Winter Haven Hospital) - Mesenchymal chondrosarcoma
Illinois (Burr Ridge) - Extra-skeletal myxoid chondrosarcoma
Illinois (Evanston Hospital) - Epithelioid GIST or leiomyosarcoma
Indiana (Howard Community Hospital) - Extraskelatal chondrosarcoma
Louisiana (Louisiana State University Medical Center) - Round cell liposarcoma
Maryland (National Naval Medical Center) - Round cell liposarcoma (1); Extraskelatal myxoid chondrosarcoma (9)
Massachusetts (Berkshire Medical Center) - Chondrosarcoma, grade III of III
Massachusetts (New England Medical Center Residents) - Liposarcoma, round cell
Michigan (Oakwood Hospital) - Mesenchymal chondrosarcoma
Michigan (St. Joseph Mercy Hospital) - Desmoplastic small round cell tumor
Minnesota (Fairview Southdale Hospital) - Poorly differentiated sarcoma, favor round cell dedifferentiated liposarcoma

Nebraska (Creighton University School of Medicine Residents) - Chondrosarcoma, high grade
New Jersey (Overlook Hospital) - Round cell liposarcoma
New York (Long Island Jewish Hospital) - Epithelioid hemangioendothelioma
New York (Nassau University Medical Center) - Intra-abdominal desmoplastic small round cell tumor
New York, New York - Favor epithelioid GIST
New York (NY Presbyterian Hospital) - Extraskelatal chondrosarcoma
New York (Stony Brook University Hospital Residents) - Myxoid/round cell liposarcoma
North Carolina (Mountain Area Pathology) - ? chondrosarcoma (1); Mesenchymal chondrosarcoma (3)
Ohio (McCullough-Hyde Memorial Hospital) - Chondrosarcoma
Pennsylvania (Allegheny General Hospital) - Extraskelatal mesenchymal chondrosarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Myxoid type liposarcoma
Pennsylvania (Lehigh Valley Hospital) - Epithelioid hemangioendothelioma
Pennsylvania (York Hospital) - Chondrosarcoma (6)
Rhode Island (RI Hospital Residents) - Extraskelatal myxoid chondrosarcoma
Texas (Lubbock) - Round cell liposarcoma
Texas (ProPath Associates) - Malignant hemangiopericytoma (2)
Texas (San Antonio) - Epithelioid malignant neoplasm (extraskelatal myxoid chondrosarcoma vs. epithelioid hemangioendothelioma vs. myoepithelial carcinoma vs. ovarian sex-cord stromal tumor)
Texas (Scott & White Memorial Hospital) - Extraskelatal mesenchymal chondrosarcoma
Texas (University of Texas Medical Branch) - Gastrointestinal stromal tumor
Wyoming (Greenbrier Valley Medical Center) - Desmoplastic small cell tumor
Australia (North Queensland Pathology) - Extra osseal chondrosarcoma
Australia (Royal Prince Alfred Hospital) - Malignant myoepithelioma vs. epithelioid GIST
Canada (Foothills Medical Center) - Round cell liposarcoma
Hong Kong (Hong Kong Baptist Hospital) - Chondrosarcoma
Italy (Naples Naval Medical) - Metastatic signet ring cell carcinoma
Japan, Chiba - Chondrosarcoma, extraskelatal
Netherlands, Amsterdam - Sarcoma, NOS
Qatar (Hamad Medical Corporation) - Liposarcoma
Saudi Arabia, Alhassa - Myxoid/round cell liposarcoma
Saudi Arabia (King Khalid University) - Extraskelatal myxoid chondrosarcoma

Case 4 - Diagnosis:

Extraskelatal myxoid chondrosarcoma, intra-abdominal
 T-Y4100, M-92203

Case 4 - References:

- Gaudier F, Khurana JS, Dewan S, et al. Fine-Needle Aspiration Cytology of Intra-Abdominal Wall Extraskelatal Myxoid Chondrosarcoma. A Case Report and Review of the Literature. *Arch Pathol Lab Med* 2003; 127(9):1211-1213.
- Goh YW, Spagnolo DV, Platten M, et al. Extraskelatal Myxoid Chondrosarcoma. A Light Microscopic, Immunohistochemical, Ultrastructural and Immuno Ultrastructural Study Indicating Neuroendocrine Differentiation. *Histopathol* 2001; 39(5):514-524.
- Harris M, Coyne J, Tariq M, et al. Extraskelatal Myxoid Chondrosarcoma with Neuroendocrine Differentiation. A Pathologic, Cytogenetic, and Molecular Study of a Case with a Novel Translocation t(9; 17)(q22; q11.2). *Am J Surg Pathol* 2000; 24(7):1020-1060.
- Rubin BP and Fletcher JA. Skeletal and Extraskelatal Myxoid Chondrosarcoma. Related or Distinct Tumors? *Adv Anat Pathol* 1999; 6(4):204-212.
- Folpe AL, Agoff SN, Willis J, et al. Parachordoma is Immunohistochemically and Cytogenetically Distinct from Axial Chordoma and Extraskelatal Myxoid Chondrosarcoma. *Am J Surg Pathol* 1999; 1059-1067.
- Kawaguchi S, Wada T, Nagoya S, et al. Extraskelatal Myxoid Chondrosarcoma. A Multi-Institutional Study of 42 Cases in Japan. *Cancer* 2003; 97(5):1285-1292.

Case No. 5, Accession No. 29709

April 2004

Arcadia - Dermatofibrosarcoma protuberans
Bakersfield - Dermatofibrosarcoma protuberans
Baldwin Park (Kaiser Permanente) - Dermatofibrosarcoma protuberans (2)
Fontana (Kaiser Permanente) - Dermatofibrosarcoma protuberans

Hayward/Fremont - Dermatofibrosarcoma protuberans
Laguna Beach (South Coast Medical Center) - Dermatofibrosarcoma protuberans
Long Beach - Dermatofibrosarcoma protuberance (8)
Mountain View (El Camino Pathology Group) - Dermatofibrosarcoma protuberans
Oakland (Kaiser Permanente) - Dermatofibrosarcoma protuberans (6)
Orange (Orange County Pathology Medical Group) - Dermatofibrosarcoma protuberans
Sacramento (UC Davis Medical Center) - Dermatofibrosarcoma protuberans
San Diego (Naval Medical Center) - Dermatofibrosarcoma protuberans
San Francisco (University of California) - Dermatofibrosarcoma protuberans
Santa Rosa (Santa Rosa Memorial Hospital) - Dermatofibrosarcoma protuberans (3)
Ventura - Dermatofibrosarcoma protuberans
Alaska (Alaska Native Medical Center) - Dermatofibrosarcoma protuberans
Colorado (Evergreen) - Dermatofibrosarcoma protuberans
Colorado (Lutheran Medical Center) - Dermatofibrosarcoma protuberans
Florida (Baptist Hospital) - Dermatofibrosarcoma protuberans (5)
Florida (Munroe Regional Medical Center) - Dermatofibrosarcoma protuberans
Florida (Tallahassee) - Dermatofibrosarcoma protuberans
Florida (Winter Haven Hospital) - Dermatofibrosarcoma protuberans
Illinois (Burr Ridge) - Dermatofibrosarcoma protuberans
Illinois (Evanston Hospital) - Dermatofibrosarcoma protuberans
Indiana (Howard Community Hospital) - Neurofibroma
Louisiana (Louisiana State University Medical Center) - Dermatofibrosarcoma protuberans
Maryland (National Naval Medical Center) - Dermatofibrosarcoma protuberans
Massachusetts (Berkshire Medical Center) - Dermatofibrosarcoma
Massachusetts (New England Medical Center Residents) - Dermatofibrosarcoma protuberans
Michigan (Oakwood Hospital) - Dermatofibrosarcoma protuberans
Michigan (St. Joseph Mercy Hospital) - Dermatofibrosarcoma protuberans
Minnesota (Fairview Southdale Hospital) - Dermatofibrosarcoma protuberans consistent with fibrosarcomatous transformation
Nebraska (Creighton University School of Medicine Residents) - Dermatofibrosarcoma protuberans
New Jersey (Overlook Hospital) - Dermatofibrosarcoma
New York (Long Island Jewish Hospital) - Dermatofibrosarcoma protuberans
New York (Nassau University Medical Center) - Dermatofibrosarcoma protuberans
New York, New York - Dermatofibrosarcoma protuberans
New York (NY Presbyterian Hospital) - Dermatofibrosarcoma protuberans
New York (Stony Brook University Hospital Residents) - Dermatofibrosarcoma protuberans
North Carolina (Mountain Area Pathology) - Dermatofibrosarcoma protuberans (4)
Ohio (McCullough-Hyde Memorial Hospital) - Dermatofibrosarcoma protuberans
Pennsylvania (Allegheny General Hospital) - Dermatofibrosarcoma protuberans
Pennsylvania (Conemaugh Memorial Medical Center) - Dermatofibrosarcoma protuberans
Pennsylvania (Lehigh Valley Hospital) - Dermatofibrosarcoma protuberans
Pennsylvania (York Hospital) - Dermatofibrosarcoma protuberans (7)
Rhode Island (RI Hospital Residents) - Dermatofibrosarcoma protuberans
Texas (Lubbock) - Dermatofibrosarcoma protuberans
Texas (ProPath Associates) - Dermatofibroma protuberans (2)
Texas (San Antonio) - Fibrosarcomatous DFSP
Texas (Scott & White Memorial Hospital) - DFSP
Texas (University of Texas Medical Branch) - Dermatofibrosarcoma protuberans
Wyoming (Greenbrier Valley Medical Center) - Dermatofibrosarcoma protuberans
Australia (North Queensland Pathology) - Dermatofibrosarcoma protuberans
Australia (Royal Prince Alfred Hospital) - Dermatofibrosarcoma protuberans
Canada (Foothills Medical Center) - Dermatofibrosarcoma protuberans
Hong Kong (Hong Kong Baptist Hospital) - Dermatofibrosarcoma protuberans
Italy (Naples Naval Medical) - Dermatofibrosarcoma protuberans
Japan, Chiba - Dermatofibrosarcoma protuberans
Netherlands, Amsterdam - Dermatofibrosarcoma protuberans (DFSP)
Qatar (Hamad Medical Corporation) - Dermatofibrosarcoma protuberans
Saudi Arabia, Alhassa - Dermatofibrosarcoma protuberans
Saudi Arabia (King Khalid University) - Dermatofibrosarcoma protuberans

Case 5 - Diagnosis:

Dermatofibrosarcoma protuberans, groin
T-Y7000, M-88323

Case 5 - References:

- Minter RM, Reith JD and Hochwald SN. Metastatic Potential of Dermatofibrosarcoma Protuberans with Fibrosarcomatous Change. *J Surg Oncol* 2003; 82(3):201-208.
- Zamecnik M. Fibrosarcomatous Dermatofibrosarcoma Protuberans with Giant Rosettes. *Am J Dermatopathol* 2001; 23(1):41-45.
- Ghorbani RP, Malpica A and Ayala AG. Dermatofibrosarcoma Protuberans of the Vulva. Clinicopathologic and Immunohistochemical Analysis of Four Cases, One with Fibrosarcomatous Change, and Review of the Literature. *Int J Gynecol Pathol* 1999; 18(4):366-373.
- Linn SC, West RB, Pollack JR, et al. Gene Expression Patterns and Gene Copy Number Changes in Dermatofibrosarcoma Protuberans. *Am J Pathol* 2003; 163(6):2383-2395.
- Bowne WB, Antonescu CR, Leung DH, et al. Dermatofibrosarcoma Protuberans. A Clinicopathologic Analysis of Patients Treated and Followed at a Single Institution. *Cancer* 2000; 88(12):2711-2720.

Case No. 6, Accession No. 29641

April 2004

Arcadia - Leiomyosarcoma

Bakersfield - Metastatic leiomyosarcoma

Baldwin Park (Kaiser Permanente) - Epithelioid leiomyosarcoma (1); Leiomyosarcoma (1)

Fontana (Kaiser Permanente) - Epithelioid leiomyosarcoma

Hayward/Fremont - Epithelioid leiomyosarcoma, metastatic

Laguna Beach (South Coast Medical Center) - Epithelioid leiomyosarcoma

Long Beach - Leiomyosarcoma (8)

Mountain View (El Camino Pathology Group) - Metastatic leiomyosarcoma

Oakland (Kaiser Permanente) - Metastatic epithelioid leiomyosarcoma (6)

Orange (Orange County Pathology Medical Group) - Metastatic (epithelioid) leiomyosarcoma

Sacramento (UC Davis Medical Center) - Metastatic epithelioid leiomyosarcoma

San Diego (Naval Medical Center) - Endometrial stromal tumor resembling ovarian sex cord tumor, metastatic vs. leiomyosarcoma

San Francisco (University of California) - Epithelioid leiomyosarcoma

Santa Rosa (Santa Rosa Memorial Hospital) - Leiomyosarcoma, epithelioid type (1); Leiomyosarcoma (1); Metastatic epithelioid leiomyosarcoma (1)

Ventura - Leiomyosarcoma

Alaska (Alaska Native Medical Center) - Epithelioid leiomyosarcoma

Colorado (Evergreen) - Epithelioid leiomyosarcoma

Colorado (Lutheran Medical Center) - Metastatic leiomyosarcoma (vs. stromal sarcoma)

Florida (Baptist Hospital) - Epithelioid leiomyosarcoma (5)

Florida (Munroe Regional Medical Center) - Rhabdomyosarcoma

Florida (Tallahassee) - Leiomyosarcoma

Florida (Winter Haven Hospital) - Mesenchymal chondrosarcoma

Illinois (Burr Ridge) - Round cell leiomyosarcoma

Illinois (Evanston Hospital) - Epithelioid leiomyosarcoma

Indiana (Howard Community Hospital) - Rhabdomyosarcoma

Louisiana (Louisiana State University Medical Center) - Epithelioid leiomyosarcoma

Maryland (National Naval Medical Center) - Adult Wilms tumor (neuroblastoma) (5); Alveolar rhabdomyosarcoma (5)

Massachusetts (Berkshire Medical Center) - Leiomyosarcoma, Grade III of III

Massachusetts (New England Medical Center Residents) - Leiomyosarcoma, epithelioid

Michigan (Oakwood Hospital) - Metastatic leiomyosarcoma

Michigan (St. Joseph Mercy Hospital) - Epithelioid leiomyosarcoma

Minnesota (Fairview Southdale Hospital) - Metastatic leiomyosarcoma

Nebraska (Creighton University School of Medicine Residents) - Epithelioid leiomyosarcoma

New Jersey (Overlook Hospital) - Epithelioid leiomyosarcoma

New York (Long Island Jewish Hospital) - Epithelioid leiomyosarcoma

New York (Nassau University Medical Center) - Epithelioid leiomyosarcoma, metastatic

New York, New York - Likely metastatic epithelioid leiomyosarcoma
New York (NY Presbyterian Hospital) - Epithelioid angiomyolipoma, pecoma
New York (Stony Brook University Hospital Residents) - Epithelioid leiomyosarcoma
North Carolina (Mountain Area Pathology) - Metastatic leiomyosarcoma (4)
Ohio (McCullough-Hyde Memorial Hospital) - Epithelioid leiomyosarcoma
Pennsylvania (Allegheny General Hospital) - Metastatic epithelioid leiomyosarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Leiomyosarcoma
Pennsylvania (Lehigh Valley Hospital) - Leiomyosarcoma
Pennsylvania (York Hospital) - Epithelioid leiomyosarcoma
Rhode Island (RI Hospital Residents) - Epithelioid leiomyosarcoma
Texas (Lubbock) - Alveolar rhabdomyosarcoma
Texas (ProPath Associates) - Leiomyosarcoma with epithelioid features (2)
Texas (San Antonio) - High grade epithelioid leiomyosarcoma
Texas (Scott & White Memorial Hospital) - Metastatic epithelioid leiomyosarcoma
Texas (University of Texas Medical Branch) - Metastatic epithelioid leiomyosarcoma
Wyoming (Greenbrier Valley Medical Center) - Clear cell sarcoma
Australia (North Queensland Pathology) - Epithelioid leiomyosarcoma
Australia (Royal Prince Alfred Hospital) - Epithelioid leiomyosarcoma
Canada (Foothills Medical Center) - Epithelioid leiomyosarcoma
Hong Kong (Hong Kong Baptist Hospital) - Metastatic epithelioid leiomyosarcoma
Japan, Chiba - Rhabdomyosarcoma, alveolar type
Netherlands, Amsterdam - Sarcoma, NOS
Qatar (Hamad Medical Corporation) - Metastatic epithelioid leiomyosarcoma
Saudi Arabia, Alhassa - Leiomyosarcoma, metastatic
Saudi Arabia (King Khalid University) - Leiomyosarcoma

Case 6 - Diagnosis:

Epithelioid leiomyosarcoma, kidney
 T-71000, M-88903

Case 6 - References:

Minami H, Ueki O, Tanaka T, et al. Case of Leiomyosarcoma of the Renal Pelvis. *Int J Urol* 2004; 11(2):122-124.
 Moazzam M, Ather MH and Hussainy AS. Leiomyosarcoma Presenting as a Spontaneously Ruptured Renal Tumor-Case Report. *Urol* 2002; 19:2(1):13.
 Klijanienko J, Caillaud JM, Lagace R, et al. Fine-Needle Aspiration of Leiomyosarcoma. A Correlative Cytohistopathological Study of 96 Tumors in 68 Patients. *Diagn Cytopathol* 2003; 28(3):119-125.
 Rajani B, Smith TA, Reith JD, et al. Retroperitoneal Leiomyosarcomas Unassociated with the Gastrointestinal Tract. A Clinicopathologic Analysis of 17 Cases. *Mod Pathol* 1999; 12(1):21-28.
 Miettinen M, Sarlomo-Rikala M, Sobin LH, et al. Gastrointestinal Stromal Tumors and Leiomyosarcomas in the Colon. A Clinicopathologic, Immunohistochemical, and Molecular Genetic Study of 44 Cases. *Am J Surg Pathol* 2000; 24(10):1339-1352.

Case No. 7, Accession No. 29601

April 2004

Arcadia - Giant cell tumor of tendon sheath
Bakersfield - Giant cell tumor of tendon sheath
Baldwin Park (Kaiser Permanente) - Local tenosynovial giant cell tumor (giant cell tumor of tendon sheath) (1); Giant cell tumor (1)
Fontana (Kaiser Permanente) - Giant cell tumor of tendon sheath
Hayward/Fremont - Giant cell tumor of tendon sheath (nodular tenosynovitis)
Laguna Beach (South Coast Medical Center) - Giant cell tumor of tendon sheath
Long Beach - Nodular tenosynovitis (8)
Mountain View (El Camino Pathology Group) - Giant cell tumor of tendon sheath
Oakland (Kaiser Permanente) - Giant cell tumor of tendon sheath (6)
Orange (Orange County Pathology Medical Group) - Giant cell tumor of tendon sheath
Sacramento (UC Davis Medical Center) - Giant cell tumor of tendon sheath
San Diego (Naval Medical Center) - Giant cell tumor of tendon sheath
San Francisco (University of California) - Giant cell tumor of tendon sheath

Santa Rosa (Santa Rosa Memorial Hospital) - Giant cell tumor of tendon sheath
Ventura - Giant cell tumor of tendon sheath
Alaska (Alaska Native Medical Center) - Giant cell tumor of tendon sheath
Colorado (Evergreen) - Giant cell tumor of tendon sheath
Colorado (Lutheran Medical Center) - Giant cell tumor of tendon sheath
Florida (Baptist Hospital) - Giant cell tumor of tendon sheath
Florida (Munroe Regional Medical Center) - Tenosynovial giant cell tumor
Florida (Tallahassee) - Giant cell tumor of tendon sheath
Florida (Winter Haven Hospital) - Giant cell MFH
Illinois (Burr Ridge) - Giant cell tumor of tendon sheath
Illinois (Evanston Hospital) - Giant cell tumor of tendon sheath/nodular tenosynovitis
Indiana (Howard Community Hospital) - Giant cell tumor of tendon sheath
Louisiana (Louisiana State University Medical Center) - Giant cell tumor
Maryland (National Naval Medical Center) - Giant cell tumor of tendon sheath
Massachusetts (Berkshire Medical Center) - Giant cell tumor of tendon sheath
Massachusetts (New England Medical Center Residents) - Giant cell tumor of tendon sheath
Michigan (Oakwood Hospital) - Giant cell tumor of tendon sheath
Michigan (St. Joseph Mercy Hospital) - Tenosynovial giant cell tumor
Minnesota (Fairview Southdale Hospital) - Giant cell tumor of tendon sheath
Nebraska (Creighton University School of Medicine Residents) - Giant cell tumor of tendon sheath
New Jersey (Overlook Hospital) - Giant cell tumor of tendon sheath consistent with increased mitotic activity
New York (Long Island Jewish Hospital) - Giant cell tumor of tendon sheath
New York (Nassau University Medical Center) - Giant cell tumor
New York, New York - Tenosynovial giant cell tumor
New York (NY Presbyterian Hospital) - Giant cell tumor of tendon sheath
New York (Stony Brook University Hospital Residents) - Giant cell tumor of tendon sheath
North Carolina (Mountain Area Pathology) - Giant cell tumor of tendon sheath (4)
Ohio (McCullough-Hyde Memorial Hospital) - Giant cell tumor tendon sheath
Pennsylvania (Allegheny General Hospital) - Giant cell tumor of tendon sheath
Pennsylvania (Conemaugh Memorial Medical Center) - Giant cell tumor of tendon sheath
Pennsylvania (Lehigh Valley Hospital) - Giant cell tumor of tendon sheath
Pennsylvania (York Hospital) - Giant cell tumor of tendon sheath (7)
Rhode Island (RI Hospital Residents) - Giant cell tumor of tendon sheath
Texas (Lubbock) - Giant cell tumor of tendon sheath
Texas (ProPath Associates) - Giant cell tumor of tendon sheath (2)
Texas (San Antonio) - Giant cell tumor of tendon sheath (localized tenosynovial giant cell tumor)
Texas (Scott & White Memorial Hospital) - Giant cell tumor
Texas (University of Texas Medical Branch) - Giant cell tumor of the tendon sheath
Wyoming (Greenbrier Valley Medical Center) - Plexiform fibrous histiocytoma
Australia (North Queensland Pathology) - Giant cell tumor of tendon sheath
Australia (Royal Prince Alfred Hospital) - Giant cell tumor of tendon sheath
Canada (Foothills Medical Center) - Giant cell tumor of tendon sheath
Hong Kong (Hong Kong Baptist Hospital) - Tenosynovial giant cell tumor
Italy (Naples Naval Medical) - Giant cell tumor of tendon sheath
Japan, Chiba - Tenosynovial giant cell tumor, localized type
Netherlands, Amsterdam - Tenosynovial giant cell tumor, localized type (nodular tenosynovitis)
Qatar (Hamad Medical Corporation) - Giant cell tumor of tendon sheath
Saudi Arabia, Alhassa - Giant cell tumor of tendon sheath
Saudi Arabia (King Khalid University) - Giant cell tumor of tendon sheath

Case 7 - Diagnosis:

Localized tenosynovial giant cell tumor (giant cell tumor of tendon sheath), finger
 T-Y8800, M-4000

Case 7 - References:

Hitora T, Yamamoto T, Akisue T, et al. Multicentric Localized giant Cell Tumour of the Tendon Sheath. Two Separate Lesions at Different Sites in a Finger. *Br J Dermatol* 2002; 147(2):403-405.
 Al-Qattan MM. Giant Cell Tumours of Tendon Sheath. Classification and Recurrence Rate. *J Hand Surg* 2001; 26(1):72-75.

- Looi KP, Low CK and Yap YM. Pigmented Villonodular Synovitis of the Hand in the Asian Population. *Hand Surg* 1999; 4(1):81-85.
- Galliani I, Gassiani G, Valmori A, et al. Giant Cell Tumor of Tendon Sheath. A Light and Electron Microscopic Study. *J Submicrosc Cytol Pathol* 2000; 32(1):69-76.
- Cavaliere A, Sidoni A and Bucciarelli E. Giant Cell Tumor of Tendon Sheath. Immunohistochemical Study of 20 Cases. *Tumori* 1997; 83(5):841-846.
- Uriburu JJ and Levy VD. Intraosseous Growth of Giant Cell Tumors of the Tendon Sheath (Localized Nodular Tenosynovitis) of the Digits. Report of 15 Cases. *J Hand Surg* 1998; 23(4):732-736.

Case No. 8, Accession No. 29652

April 2004

- Arcadia - Leiomyosarcoma
- Bakersfield - Leiomyosarcoma
- Baldwin Park (Kaiser Permanente) - Leiomyosarcoma, high grade (1); Leiomyosarcoma (1)
- Fontana (Kaiser Permanente) - Pleomorphic rhabdomyosarcoma
- Hayward/Fremont - Pleomorphic rhabdomyosarcoma
- Laguna Beach (South Coast Medical Center) - Myofibrosarcoma vs. rhabdomyosarcoma vs. leiomyosarcoma
- Long Beach - Leiomyosarcoma (8)
- Mountain View (El Camino Pathology Group) - Pleomorphic leiomyosarcoma
- Oakland (Kaiser Permanente) - Leiomyosarcoma (6)
- Orange (Orange County Pathology Medical Group) - Leiomyosarcoma
- Sacramento (UC Davis Medical Center) - Leiomyosarcoma
- San Diego (Naval Medical Center) - Pleomorphic rhabdomyosarcoma
- San Francisco (University of California) - Pleomorphic rhabdomyosarcoma
- Santa Rosa (Santa Rosa Memorial Hospital) - Pleomorphic rhabdomyosarcoma (1); Rhabdomyosarcoma (1); Leiomyosarcoma (1)
- Ventura - Rhabdomyosarcoma
- Alaska (Alaska Native Medical Center) - Leiomyosarcoma (2); Triton tumor (1)
- Colorado (Evergreen) - Pleomorphic rhabdomyosarcoma
- Colorado (Lutheran Medical Center) - Pleomorphic rhabdomyosarcoma
- Florida (Baptist Hospital) - Pleomorphic rhabdomyosarcoma (2); Rhabdomyosarcoma (2); Malignant fibrous histiocytoma vs. rhabdomyosarcoma (1)
- Florida (Munroe Regional Medical Center) - Malignant fibrous histiocytoma
- Florida (Tallahassee) - Adult pleomorphic rhabdomyosarcoma
- Florida (Winter Haven Hospital) - Leiomyosarcoma
- Illinois (Burr Ridge) - Leiomyosarcoma
- Illinois (Evanston Hospital) - Rhabdomyosarcoma, pleomorphic
- Indiana (Howard Community Hospital) - Rhabdomyosarcoma
- Louisiana (Louisiana State University Medical Center) - Pleomorphic rhabdomyosarcoma
- Maryland (National Naval Medical Center) - Rhabdomyosarcoma (8); Malignant fibrous histiocytoma (2)
- Massachusetts (Berkshire Medical Center) - High grade sarcoma with muscle differentiation
- Massachusetts (New England Medical Center Residents) - Leiomyosarcoma
- Michigan (Oakwood Hospital) - Leiomyosarcoma
- Michigan (St. Joseph Mercy Hospital) - Leiomyosarcoma
- Minnesota (Fairview Southdale Hospital) - Rhabdomyosarcoma
- Nebraska (Creighton University School of Medicine Residents) - Leiomyosarcoma
- New Jersey (Overlook Hospital) - Leiomyosarcoma
- New York (Long Island Jewish Hospital) - High grade sarcoma consistent with leiomyosarcoma
- New York (Nassau University Medical Center) - Rhabdomyosarcoma
- New York, New York - Favor high grade leiomyosarcoma; DDx: Muscle differentiation in a malignant peripheral nerve sheath tumor
- New York (NY Presbyterian Hospital) - Pleomorphic rhabdomyosarcoma
- New York (Stony Brook University Hospital Residents) - Leiomyosarcoma
- North Carolina (Mountain Area Pathology) - Leiomyosarcoma (4)
- Ohio (McCullough-Hyde Memorial Hospital) - Leiomyosarcoma
- Pennsylvania (Allegheny General Hospital) - Pleomorphic rhabdomyosarcoma
- Pennsylvania (Conemaugh Memorial Medical Center) - Pleomorphic rhabdomyosarcoma
- Pennsylvania (Lehigh Valley Hospital) - Malignant fibrous histiocytoma

Pennsylvania (York Hospital) - Leiomyosarcoma (7)
Rhode Island (RI Hospital Residents) - Malignant Triton tumor (malignant peripheral nerve sheath tumor with rhabdomyoblastic differentiation)
Texas (Lubbock) - Leiomyosarcoma
Texas (ProPath Associates) - Rhabdomyosarcoma (2)
Texas (San Antonio) - Pleomorphic rhabdomyosarcoma
Texas (Scott & White Memorial Hospital) - Leiomyosarcoma
Texas (University of Texas Medical Branch) - Leiomyosarcoma
Wyoming (Greenbrier Valley Medical Center) - Adult pleomorphic rhabdomyosarcoma
Australia (North Queensland Pathology) - Rhabdomyosarcoma
Australia (Royal Prince Alfred Hospital) - MPNST/Triton tumor vs. pleomorphic leiomyosarcoma
Canada (Foothills Medical Center) - Malignant Triton tumor
Hong Kong (Hong Kong Baptist Hospital) - Rhabdomyosarcoma
Italy (Naples Naval Medical) - Leiomyosarcoma
Japan, Chiba - Rhabdomyosarcoma, pleomorphic type
Netherlands, Amsterdam - Leiomyosarcoma
Qatar (Hamad Medical Corporation) - Leiomyosarcoma
Saudi Arabia, Alhassa - Leiomyosarcoma
Saudi Arabia (King Khalid University) - Leiomyosarcoma

Case 8 - Diagnosis:

Leiomyosarcoma of soft tissue, back
 T-Y1100, M-88903

Case 8 – References:

Skubitz KM and Skubitz AP. Differential Gene Expression in Leiomyosarcoma. *Cancer* 2003; 98(5):1029-1038.
 Hornick JL and Fletcher CD. Criteria for Malignancy in Nonvisceral Smooth Muscle Tumors. *Ann Diagn Pathol* 2003; 7(1):60-66.
 Noguchi T, Dobashi Y, Minehara H, et al. Involvement of Cyclins in Cell Proliferation and Their Clinical Implications in Soft Tissue Smooth Muscle Tumors. *Am J Pathol* 2000; 156(6):2135-2147.
 Farshid G, Pradhan M, Goldblum J, et al. Leiomyosarcoma of Somatic Soft Tissues. A Tumor of Vascular origin with Multivariate Analysis of Outcome in 42 Cases. *Am J Surg Pathol* 2002; 26(1):14-24.
 Miyajima K, Oda Y, Oshiro Y, et al. Clinicopathological Prognostic Factors in Soft Tissue Leiomyosarcoma. A Multivariate Analysis. *Histopathol* 2002; 40(4):353-359.

Case No. 9, Accession No. 29110

April 2004

Arcadia - Poorly differentiated sarcoma (? MFH)
Bakersfield - Malignant fibrohistiocytoma
Baldwin Park (Kaiser Permanente) - High grade sarcoma, NOS (2)
Fontana (Kaiser Permanente) - Peripheral malignant nerve sheath tumor
Hayward/Fremont - MFH vs. poorly differentiated sarcoma w/ osteoclasts
Laguna Beach (South Coast Medical Center) - Malignant fibrous histiocytoma
Long Beach - Fibrosarcoma (8)
Mountain View (El Camino Pathology Group) - Malignant fibrous histiocytoma
Oakland (Kaiser Permanente) - Pleomorphic high grade sarcoma consistent with malignant fibrous histiocytoma (6)
Orange (Orange County Pathology Medical Group) - Malignant fibrous histiocytoma
Sacramento (UC Davis Medical Center) - High grade sarcoma favor malignant fibrous histiocytoma
San Diego (Naval Medical Center) - High grade sarcoma, favor pleomorphic malignant fibrous histiocytoma; 2nd choice malignant peripheral nerve sheath tumor
San Francisco (University of California) - Pleomorphic undifferentiated sarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Malignant fibrous histiocytoma (1); Sarcoma consistent with malignant fibrous histiocytoma (1); Malignant fibrous histiocytoma, storiform/pleomorphic type (1)
Ventura - Malignant fibrous histiocytoma
Alaska (Alaska Native Medical Center) - Malignant fibrous histiocytoma, storiform/pleomorphic (2); Malignant schwannoma (1)
Colorado (Evergreen) - Pleomorphic malignant fibrous histiocytoma
Colorado (Lutheran Medical Center) - Malignant fibrous histiocytoma

Florida (Baptist Hospital) - Dedifferentiated liposarcoma (1); Undifferentiated sarcoma (possible dedifferentiated liposarcoma) (1); High grade sarcoma, NOS (1); High grade, sarcoma (2)

Florida (Munroe Regional Medical Center) - Malignant fibrous histiocytoma

Florida (Tallahassee) - Malignant fibrous histiocytoma

Florida (Winter Haven Hospital) - Fibrosarcoma

Illinois (Burr Ridge) - Malignant peripheral nerve sheath tumor

Illinois (Evanston Hospital) - Malignant fibrous histiocytoma

Indiana (Howard Community Hospital) - Malignant schwannoma

Louisiana (Louisiana State University Medical Center) - Malignant peripheral nerve sheath tumor

Maryland (National Naval Medical Center) - Malignant fibrous histiocytoma (5); Malignant peripheral nerve sheath tumor (4); Dedifferentiated liposarcoma (1)

Massachusetts (Berkshire Medical Center) - Malignant peripheral nerve sheath tumor

Massachusetts (New England Medical Center Residents) - Undifferentiated high grade pleomorphic sarcoma

Michigan (Oakwood Hospital) - High grade pleomorphic sarcoma

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

Minnesota (Fairview Southdale Hospital) - Malignant fibrous histiocytoma

Nebraska (Creighton University School of Medicine Residents) - High grade sarcoma vs. liposarcoma

New Jersey (Overlook Hospital) - Soft tissue sarcoma, NOS

New York (Long Island Jewish Hospital) - High grade sarcoma, malignant fibrous histiocytoma

New York (Nassau University Medical Center) - Malignant fibrous histiocytoma

New York, New York - Favor pleomorphic storiform malignant fibrous histiocytoma

New York (NY Presbyterian Hospital) - Extra-skeletal osteosarcoma

New York (Stony Brook University Hospital Residents) - Pleomorphic liposarcoma

North Carolina (Mountain Area Pathology) - Fibrosarcoma vs. malignant fibrous histiocytoma (1); Pleomorphic sarcoma (1); High grade fibrosarcoma (1); High grade sarcoma ? malignant peripheral nerve sheath tumor (1)

Ohio (McCullough-Hyde Memorial Hospital) - Fibrosarcoma

Pennsylvania (Allegheny General Hospital) - Spindle cell sarcoma, possible peripheral nerve sheath tumor

Pennsylvania (Conemaugh Memorial Medical Center) - Malignant peripheral nerve sheath tumor

Pennsylvania (Lehigh Valley Hospital) - Malignant fibrous histiocytoma

Pennsylvania (York Hospital) - Poorly differentiated sarcoma (5); Sarcoma, NOS (1); Pleomorphic sarcoma (1)

Rhode Island (RI Hospital Residents) - Malignant peripheral nerve sheath tumor

Texas (Lubbock) - Neurofibrosarcoma

Texas (ProPath Associates) - Malignant fibrohistiocytoma (2)

Texas (San Antonio) - Pleomorphic high grade sarcoma (MFH)

Texas (Scott & White Memorial Hospital) - High grade pleomorphic sarcoma (MFH)

Texas (University of Texas Medical Branch) - Malignant fibrous histiocytoma

Wyoming (Greenbrier Valley Medical Center) - Adult fibrosarcoma

Australia (North Queensland Pathology) - Malignant fibrous histiocytoma

Australia (Royal Prince Alfred Hospital) - Giant cell variant malignant fibrous histiocytoma vs. malignant melanoma

Canada (Foothills Medical Center) - Malignant fibrous histiocytoma

Hong Kong (Hong Kong Baptist Hospital) - Spindle cell sarcoma

Italy (Naples Naval Medical) - Pleomorphic storiform malignant fibrous histiocytoma

Japan, Chiba - Malignant peripheral nerve sheath tumor

Netherlands, Amsterdam - Sarcoma, NOS (?)

Qatar (Hamad Medical Corporation) - High grade sarcoma, malignant fibrous histiocytoma (4); Malignant peripheral nerve sheath tumor (3)

Saudi Arabia, Alhassa - Malignant fibrous histiocytoma

Saudi Arabia (King Khalid University) - Fibrosarcoma

Case 9 - Diagnosis:

High grade pleomorphic sarcoma (with phenotype of so-called "MFH"), back
T-Y1100, M-88023

Case 9 – References:

- Miwa K, Nakamura H, Fukui H, et al. A Resected Case of Malignant Fibrous Histiocytoma of the Chest Wall. *Kyobu Geka* 2003; 56(9):742-746.
- Osanai T, Yamakawa M, Suda A, et al. Metamorphosed Fibroblasts and Their Relation to the Histogenesis of Malignant Fibrous Histiocytoma in Experimental Murine Model. *Histol Histopathol* 2000; 15(3):697-705.

- Arcadia - Atypical lipoma (well-differentiated liposarcoma)
Bakersfield - Pleomorphic lipoma
Baldwin Park (Kaiser Permanente) - Atypical lipomatous tumor (well-differentiated liposarcoma) (1); Well-differentiated liposarcoma (1)
Fontana (Kaiser Permanente) - Pleomorphic lipoma
Hayward/Fremont - Pleomorphic lipoma
Laguna Beach (South Coast Medical Center) - Pleomorphic lipoma
Long Beach - Liposarcoma, low grade (8)
Mountain View (El Camino Pathology Group) - Pleomorphic lipoma
Oakland (Kaiser Permanente) - Pleomorphic lipoma (6)
Orange (Orange County Pathology Medical Group) - Pleomorphic lipoma
Sacramento (UC Davis Medical Center) - Pleomorphic lipoma
San Diego (Naval Medical Center) - Pleomorphic lipoma vs. atypical lipomatous tumor
San Francisco (University of California) - Pleomorphic lipoma
Santa Rosa (Santa Rosa Memorial Hospital) - Atypical lipoma (well-differentiated liposarcoma) (1); Pleomorphic lipoma (2)
Ventura - Pleomorphic lipoma
Alaska (Alaska Native Medical Center) - Pleomorphic lipoma
Colorado (Evergreen) - Well-differentiated liposarcoma
Colorado (Lutheran Medical Center) - Well-differentiated liposarcoma
Florida (Baptist Hospital) - Liposarcoma (2); Pleomorphic lipoma (3)
Florida (Munroe Regional Medical Center) - Pleomorphic lipoma
Florida (Tallahassee) - Pleomorphic lipoma
Florida (Winter Haven Hospital) - Well-differentiated liposarcoma
Illinois (Burr Ridge) - Pleomorphic lipoma
Illinois (Evanston Hospital) - Pleomorphic lipoma
Indiana (Howard Community Hospital) - Atypical lipoma
Louisiana (Louisiana State University Medical Center) - Atypical lipoma
Maryland (National Naval Medical Center) - Atypical pleomorphic lipoma (7); Well-differentiated liposarcoma (3)
Massachusetts (Berkshire Medical Center) - Pleomorphic lipoma
Massachusetts (New England Medical Center Residents) - Well-differentiated liposarcoma, adipocytic
Michigan (Oakwood Hospital) - Atypical lipoma
Michigan (St. Joseph Mercy Hospital) - Atypical lipoma
Minnesota (Fairview Southdale Hospital) - Pleomorphic lipoma
Nebraska (Creighton University School of Medicine Residents) - Atypical lipoma
New Jersey (Overlook Hospital) - Liposarcoma, well-differentiated
New York (Long Island Jewish Hospital) - Pleomorphic lipoma
New York (Nassau University Medical Center) - Pleomorphic lipoma
New York, New York - Pleomorphic lipoma (if this lesion is superficial)
New York (NY Presbyterian Hospital) - Pleomorphic lipoma
New York (Stony Brook University Hospital Residents) - Pleomorphic lipoma
North Carolina (Mountain Area Pathology) - Pleomorphic lipoma (4)
Ohio (McCullough-Hyde Memorial Hospital) - Atypical lipoma
Pennsylvania (Allegheny General Hospital) - Pleomorphic lipoma
Pennsylvania (Conemaugh Memorial Medical Center) - Atypical lipoma
Pennsylvania (Lehigh Valley Hospital) - Pleomorphic lipoma
Pennsylvania (York Hospital) - Atypical (pleomorphic) lipoma (4); Atypical lipoma (3)
Rhode Island (RI Hospital Residents) - Pleomorphic lipoma
Texas (Lubbock) - Pleomorphic lipoma
Texas (ProPath Associates) - Pleomorphic lipoma (2)
Texas (San Antonio) - Atypical lipomatous tumor (well-differentiated liposarcoma)
Texas (Scott & White Memorial Hospital) - Pleomorphic lipoma
Texas (University of Texas Medical Branch) - Pleomorphic lipoma
Wyoming (Greenbrier Valley Medical Center) - Atypical lipomatous tumor
Australia (North Queensland Pathology) - Atypical lipomatous tumor

Australia (Royal Prince Alfred Hospital) - Pleomorphic lipoma
Canada (Foothills Medical Center) - Atypical lipomatous tumor
Hong Kong (Hong Kong Baptist Hospital) - Atypical lipomatous tumor/well-differentiated liposarcoma
Italy (Naples Naval Medical) - Pleomorphic lipoma
Japan, Chiba - Pleomorphic lipoma
Netherlands, Amsterdam - Pleomorphic lipoma with floret cells
Qatar (Hamad Medical Corporation) - Pleomorphic lipoma
Saudi Arabia, Alhassa - Well-differentiated liposarcoma
Saudi Arabia (King Khalid University) - Atypical lipoma

Case 10 - Diagnosis:

Pleomorphic lipoma, anterior chest wall
T-Y2130, M-88500

Case 10 - References:

Mentzel T. Cutaneous Lipomatous Neoplasms. *Semin Diagn Pathol* 2001; 18(4):250-257.
Guillou L and Coindre JM. Newly Described Adipocytic Lesions. *Semin Diagn Pathol* 2001; 18(4):238-249.
Diaz-Cascajo C, Borghi S, et al. Pleomorphic Lipoma with Pseudopapillary Structures. A Pleomorphic Counterpart of Pseudoangiomatous Spindle Cell Lipoma. *Histopathol* 2000; 36(5):475-476.
Thirumala S, Desai M and Kannan V. Diagnostic Pitfalls in Fine Needle Aspiration Cytology of Pleomorphic Lipoma. A Case Report. *Acta Cytol* 2000; 44(4):635-656.