



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.

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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:

Extraskelatal 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 J, 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 Krieken 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 chordoid 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 extraskeletal 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 histiocyoma
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 histiocyoma (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 histiocyoma
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 histiocyoma (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) - Extraskeletal 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
Qatar (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) - Extragastrintestinal 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-40000

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 fibrohistiocyoma
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 histiocyoma
Long Beach - Fibrosarcoma (8)
Mountain View (El Camino Pathology Group) - Malignant fibrous histiocyoma
Oakland (Kaiser Permanente) - Pleomorphic high grade sarcoma consistent with malignant fibrous histiocyoma (6)
Orange (Orange County Pathology Medical Group) - Malignant fibrous histiocyoma
Sacramento (UC Davis Medical Center) - High grade sarcoma favor malignant fibrous histiocyoma
San Diego (Naval Medical Center) - High grade sarcoma, favor pleomorphic malignant fibrous histiocyoma; 2nd choice malignant peripheral nerve sheath tumor
San Francisco (University of California) - Pleomorphic undifferentiated sarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Malignant fibrous histiocyoma (1); Sarcoma consistent with malignant fibrous histiocyoma (1); Malignant fibrous histiocyoma, storiform/pleomorphic type (1)
Ventura - Malignant fibrous histiocyoma
Alaska (Alaska Native Medical Center) - Malignant fibrous histiocyoma, storiform/pleomorphic (2); Malignant schwannoma (1)
Colorado (Evergreen) - Pleomorphic malignant fibrous histiocyoma
Colorado (Lutheran Medical Center) - Malignant fibrous histiocyoma

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.