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

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

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

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.

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

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

Tissue from: Groin

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

Tissue from: Right kidney

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

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

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.
SUGGESTED READING (General Topics from Recent Literature):
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) - Epithelial 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
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:

Case No. 2, Accession No. 29667

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); Extreintestinal 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

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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 (NY Presbyterian Hospital) - GIST
New York (Stony Brook University Hospital Residents) - Intra-abdominal fibromatosis (demoid)
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:
Case 3 - Diagnosis:
Acral myxoinflammatory fibroblastic sarcoma, great toe
T-Y9800, M-88003

Case 3 - References:

Case No. 4, Accession No. 29706

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) - Extra-skeletal chondrosarcoma vs. myxoid liposarcoma
Long Beach - Extra-skeletal chondrosarcoma (8)
Mountain View (El Camino Pathology Group) - Leiomyosarcoma vs. extra-skeletal 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); Extra-skeletal chondrosarcoma (1); Liposarcoma, round cell type, vs. extra-skeletal 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) - Extra-skeletal 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, extra-skeletal 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) - Extra-skeletal chondrosarcoma
Louisiana (Louisiana State University Medical Center) - Round cell liposarcoma
Maryland (National Naval Medical Center) - Round cell liposarcoma (1); Extra-skeletal 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

CTTR, April 2004 “Minutes” (Subscription A)
Chondrosarcoma, high grade
Chondrosarcoma, extraosseous
Round Chondrosarcoma

References:
- Extraskeletal myxoid chondrosarcoma
- Desmoplastic small cell tumor
- Myxoid/round cell liposarcoma
- Epithelioid hemangioendothelioma
- Intra-abdominal desmoplastic small round cell tumor
- Extraskeletal mesenchymal chondrosarcoma
- Dermatofibrosarcoma protubérans
- Gastrointestinal stromal malignant myoepithelioma vs. epithelioid liposarcoma
- Extraskeletal chondrosarcoma
- Dermatofibrosarcoma protuberans
- Chondrosarcoma
- Metastatic signet ring cell carcinoma
- Extraskeletal chondrosarcoma
- Epithelioid malignant neoplasm (extraskeletal myxoid chondrosarcoma vs. epithelioid hemangioendothelioma vs. myoepithelial carcinoma vs. ovarian sex-cord stromal tumor)
- Extraskeletal mesenchymal chondrosarcoma
- Gastrointestinal stromal tumor
- Desmoplastic small cell tumor
- Extra osseous chondrosarcoma
- Malignant myoepithelioma vs. epithelioid GIST
- Round cell liposarcoma
- - Malignant hemangiopericytoma (2)
- Epithelioid malignant neoplasm (extraskeletal myxoid chondrosarcoma vs. epithelioid hemangioendothelioma vs. myoepithelial carcinoma vs. ovarian sex-cord stromal tumor)

Case 4 - Diagnosis:
Extraskelatal myxoid chondrosarcoma, intra-abdominal
T-Y4100, M-92203

Case 4 - References:

Case No. 5, Accession No. 29709

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

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<td>Laguna Beach (South Coast Medical Center)</td>
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<td>Saudi Arabia (King Khalid University)</td>
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Case 5 - Diagnosis:
Dermatofibrosarcoma protuberans, groin
T-Y7000, M-88323

Case 5 - References:

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 angiomylipoma, 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 (Cemonauch 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:

Case No. 7, Accession No. 29601

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

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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, AlHasa - 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:**


**Case No. 8, Accession No. 29652**

**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 (Evaston 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:

Case No. 9, Accession No. 29110

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

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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:

CTTR, April 2004 “Minutes” (Subscription A)
Arcadia - Atypical lipoma (well-differentiated liposarcoma)
Bakersfield - Pleomorphic lipoma
Baldwin Park (Kaiser Permanente) - Atypical lipomatosus 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 (Brevard 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 lipomatosus 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:**