1156

CALIFORNIA
TUMOR TISSUE REGISTRY

"TUMORS OF THE EXTREMITIES"

Study Cases, Subscription A

October 2001

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:

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: Donald Rankin, M.D.
Fontana, CA

Case No. 1 - October 2001

Tissue from: Left Foot

Accession #27774

Clinical Abstract:

For an unknown length of time this 65-year-old male had a mass develop on the plantar surface of his left foot.

Gross Pathology:

The firm, white, fibrous mass measured 3.6 x 2.4 x 1.8 cm.

Contributor: Gilbert Gersenfish, M.D.
National City, CA

Case No. 2 - October 2001

Tissue from: Right Index Finger

Accession #28454

Clinical Abstract:

This 42-year-old male laborer developed a mass on his right index finger which over time had enlarged. The tumor was excised.

Gross Pathology:

The lobulated whitish-yellow glistening rubbery to firm mass measured 3.5 x 2.8 x 1.4 cm.

Contributor: Jack C. Leissring, M.D.
Santa Rosa, CA

Case No. 3 - October 2001

Tissue from: Right Thumb

Accession #28560

Clinical Abstract:

This 51-year-old male presented with a nodule on the right thumb.

Gross Pathology:

The bright yellow, focally gray, ovoid nodule measured approximately 4.0 x 2.5 x up to 2.0 cm.

Contributor: Prescott Rasmussen, M.D.
Pico Rivera, CA

Case No. 4 - October 2001

Tissue from: Right Wrist

Accession #27775

Clinical Abstract:

A recurring cyst had developed on the right wrist of this 18-year-old female for over the past two years. An excisional biopsy was performed.

Gross Pathology:

The gray-tan, irregular oval mass measured 5.0 x 3.5 x 3.0 and had a small accompanying strip of skin which measured 4.0 cm.

SPECIAL STUDIES (Outside Facility):

Vimentin	strong positivity
NSE	strong positivity
S100	strong positivity
GFAP	strong positivity
Cytokeratins	strong positivity
HMB45	negative
SMA	negative
Desmin	negative
KP1	negative
Factor VIIII	negative

Contributor: Toni E. Leggs, M.D.
San Bernardino, CA

Case No. 5 - October 2001

Tissue from: Left ~~Waist~~ wrist

Accession #28928

Clinical Abstract:

Having a lesion on the left wrist was this 12-year-old female. The patient underwent an excisional biopsy.

Gross Pathology:

The raised nodular lesion had a dark brown pigmentation and measured 3.6 x 2.2 cm.

SPECIAL STUDIES:

S100	strongly positive
HMB45	negative

Contributor: Robert T. Dalzell, M.D.
El Cajon, CA

Case No. 6 - October 2001

Tissue from: Left Thigh

Accession #27702

Clinical Abstract:

Six weeks ago this 47-year-old male, while loading heavy equipment, experienced a sharp pain in the left knee. The pain was so severe that after one week he could not walk. MRI and arteriogram showed a ruptured tendon and blood clot. Because of swelling and a temperature the left thigh was thought to have an abscess. The thigh had been debrided on several occasions, but the process seemed to be growing.

Gross Pathology:

No gross given on debris.

Contributor: Kenneth Frankel, M.D.
Glendale, CA

Case No. 7 - October 2001

Tissue from: Right Foot

Accession #29155

Clinical Abstract:

For an unknown duration this 59-year-old male had developed a mass on his right foot.

Gross Pathology:

There were multiple nodular portions of glistening tan-yellow to tan-pink tissue. The largest measured 5.0 cm in diameter.

Contributor: Kenneth Wollesen, M.D.
San Bernardino, CA

Case No. 8 - October 2001

Tissue from: Left Great Toe

Accession #28145

Clinical Abstract:

Eight months prior to present, this 16-year-old male suffered a mechanical crush injury to the toe. Due to a current football injury the same toe had become enlarged and medical attention was sought. A distal amputation was performed for presumed chronic osteomyelitis.

Gross Pathology:

The tip of the toe was 1.2 x 2.5 cm with a 1.0 cm length of nail attached to but elevated At the distal tip was an ulcerated red-tan area overlying a 1.7 x 1.5 cm subungual tumor.

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

Case No. 9 - October 2001

Tissue from: Left Foot

Accession #27593

Clinical Abstract:

This 77-year-old female presented with a mass on the left foot. Radiologically, the tumor did not involve the bone and was surgically "scraped off" the underlying bone.

Gross Pathology:

No gross description given.

SPECIAL STUDIES:

Desmin	positive
HHF35	negative
SMActin	negative
S100	positive (++)
MIC2	positive (+)
CD34	negative
CD31	negative
CK-AE	negative

Contributor: Roger Terry, M.D.
San Gabriel, CA

Case No. 10 - October 2001

Tissue from: Left Ankle

Accession #28533

Clinical Abstract:

A soft tissue tumor developed on the left ankle of this 47-year-old female.

Gross Pathology:

The oblong shaped segment of rubbery firm whitish tissue measured 3.3 x 2.5 x 2.0 cm.

CALIFORNIA
TUMOR TISSUE REGISTRY

"TUMORS INVOLVING THE EXTREMITIES"

Minutes – Subscription A

October 2001

SUGGESTED READING (General Topics from Recent Literature):

Common Musculoskeletal Tumors of Childhood and Adolescence. Arndt C and Crist WM. *New England J of Med* 1999; 341(5):342-352.

Definition of Histopathologic Changes in Gastroesophageal Reflux Disease. Changrasoma PT, Lokuhetty DM, et al. *Am J Surg Pathol* 2000; 24:344-351.

Value of Mesothelium-Associated Antibodies Thrombomodulin Cytokeratin 5/6, Calretinin and CD44H in Distinguishing Epithelioid Pleural Mesothelioma from Adenocarcinoma Metastatic to the Pleura. Cury PM, Butcher DN, et al. *Mod Pathol* 2000; 13:107-112.

Efficacy of a Liquid-Based Thin Layer Method for Cervical Cancer Screening in a Population with a Low Incidence of Cervical Cancer. Weintraub J and Morabia A. *Diagn Cytopathol* 2000; 22:52-59.

Cultivation of the Bacillus of Whipple's Disease. Raoult D, Birg ML, et al. *N Engl J Med* 2000; 342:620-625.

California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
Loma Linda University School of Medicine
11021 Campus Avenue, AH 335
Loma Linda, California 92350
(909) 558-4788
FAX: (909) 558-0188
E-mail: cttr@linkline.com
Web site & Case of the Month: www.cttr.org

FILE DIAGNOSES

CTTR Subscription A October 2001

Case 1:

Plantar fibromatosis, left foot
T-Y9700, M-76100

Case 2:

Chondroma of soft parts ("extraskeletal chondroma"), finger
T-Y8890, M-92200

Case 3:

Giant cell tumor of tendon sheath (localized tenosynovial giant cell tumor), finger
T-Y8810, M-47830

Case 4:

Neurothekeoma ("nerve sheath myxoma"), wrist
T-Y8600, M-80001

Case 5:

Granular cell tumor, wrist
T-Y8620, M-95800

Case 6:

Consistent with diffuse tenosynovitis, thigh (near knee)
T-Y9100, M-40000

Case 7:

Biphasic synovial sarcoma, foot
T-Y9700, M-90403

Case 8:

Chondroblastoma, toe
T-Y9800, M-92300

Case 9:

Mesenchymal chondrosarcoma, foot
T-Y9700, M-92403

Case 10:

Angiomyoma (vascular leiomyoma), ankle
T-Y9500, M-88100

Bakersfield - Plantar fibromatosis
Bay Area - Plantar fibromatosis (3)
Hayward/Fremont - Plantar fibromatosis (3)
Loma Linda (LLUMC Residents) - Plantar fibromatosis
Long Beach - Tendon sheath fibroma (8)
Monterey (Community Hospital of Monterey Peninsula) - Fibroma of tendon sheath
Mountain View (El Camino Pathology Group) - Plantar fibromatosis
Oakland (Kaiser) - Fibromatosis (4)
Orange (UCI Medical Center) - Fibromatosis
Riverside - Plantar fibromatosis
Riverside/Moreno Valley - Low grade fibrosarcoma (vs. fibromatosis) (1); Low grade (well-differentiated) fibrosarcoma (1)
Sacramento (UC Davis Medical Center) - Fibroma (7); vs. giant cell tumor of tendon sheath (1)
San Diego (Naval Medical Center) - Plantar fibromatosis
San Diego - Plantar fibromatosis
Santa Rosa (Santa Rosa Memorial Hospital) - Plantar fibromatosis (3)
Sebastopol (Pathology Service) - Monophasic fibrous synovial sarcoma
Ventura - Plantar fibromatosis (2)
Alaska, Anchorage - Plantar fibromatosis
Connecticut (University of Connecticut Health Center) - Sclerotic giant cell tumor of tendon sheath vs. fibroma of tendon sheath
Delaware (Christiana Hospital) - Plantar fibromatosis
Florida (Munroe Regional Medical Center) - Plantar fibromatosis
Florida (Pathology Associates) - Plantar fibromatosis
Florida (Winter Haven Hospital) - Plantar fibromatosis (1); Neurilemmoma (1)
Illinois (Du Page Pathology Associates) - Plantar fibromatosis
Indiana, Fort Wayne - Plantar fibromatosis, left foot (Ledderhose's disease)
Kansas (University of Kansas Medical Center) - Plantar fibromatosis
Maryland (Johns Hopkins Hospital) - Plantar fibromatosis (Ledderhose's disease)
Maryland (National Naval Medical Center) - Fibromatosis (12)
Maryland (University of Maryland Medical System) - Plantar fibromatosis (9); Fibroma of tendon sheath (1)
Massachusetts (Berkshire Medical Center) - Plantar fibromatosis
Massachusetts (Brigham and Women's Residents) - Superficial (plantar) fibromatosis
Massachusetts (New England Medical Center) - Plantar fibromatosis
Michigan (Oakwood Hospital) - Plantar fibromatosis
Michigan (St. Joseph Mercy Hospital) - Fibromatosis (4)
Missouri (Truman Medical Center Residents) - Plantar fibromatosis
Nebraska (Creighton University School of Medicine) - Plantar fibromatosis
New Jersey (Overlook Hospital) - Plantar fibromatosis (3)
New York (DVAMC, Northport) - Plantar fibromatosis
New York (Long Island Jewish Medical Center) - Plantar fibromatosis
New York (SUNY Stony Brook University Hospital) - Plantar fibromatosis
North Carolina (St. Joseph Hospital) - Plantar fibromatosis (4)
Pennsylvania (Allegheny General Hospital) - Fibromatosis
Pennsylvania (Conemaugh Medical Center Residents) - Peripheral nerve sheath tumor
Pennsylvania (Lehigh Valley Hospital) - Fibromatosis
Pennsylvania (Mountain Area Pathology) - Sarcoma (1); Plantar fibromatosis (1); Fibroma of tendon sheath (1); Plantar fibromatosis (1)
Puerto Rico (University of Puerto Rico) - Plantar fibromatosis
Texas (Propath Services) - Nodular fibromatosis (2)
West Virginia (Greenbrier Valley Medical Center) - Proliferative fasciitis
Wisconsin (Meriter Health Services) - Plantar fibromatosis with increased mitosis
Wisconsin, Whitefish - Melanoma

Australia (North Queensland Pathology Group) - Plantar fibromatosis
Australia (Royal Prince Alfred Hospital) - Plantar fibromatosis
Canada (CUSE, Site Fleurimont) - Plantar fibromatosis
Japan (Kawasaki Medical School) - Plantar fibromatosis (5)
Japan (Yamanashi Medical University) - Plantar fibromatosis (3)
Netherlands - Plantar fibromatosis

Case 1 - Diagnosis:
Plantar fibromatosis, left foot
T-Y9700, M-76100

Case 1 – References:

Sammarco GJ and Mangone PG. Classification and Treatment of Plantar Fibromatosis. *Ft Ankle Int* 2000; 21(7):563-569.
De Palma L, Santucci A, Gigante A, Di Giulio A, et al. Plantar Fibromatosis. An Immunohistochemical and Ultrastructural Study. *Ft Ankle Int* 1999; 20(4):253-257.
Rosenberg HS, Stenback WA and Spjut HJ. The Fibromatoses of Infancy and Childhood. *Perspect Pediatr Pathol* 1978; 4:269-348.
Wapner KL, Ververeli PA, Moore JH Jr., et al. Plantar Fibromatosis. A Review of Primary and Recurrent Surgical Treatment. *Ft Ankle Int* 1995; 16(9):548-551.
Jacob CI and Kumm RC. Benign Anteromedial Plantar Nodules of Childhood. A Distinct Form of Plantar Fibromatosis. *Pediatr Dermatol* 2000; 17(6):472-474.
Breiner JA, Nelson M, Bredthauer BD, et al. Trisomy 8 and Trisomy 14 in Plantar Fibromatosis. *Cancer Genet Cytogenet* 1999; 108(2):176-177.

Case No. 2, Accession No. 28454 October 2001

Bakersfield - Chondroma
Bay Area - Enchondroma
Hayward/Fremont - Juxtacortical chondroma (3)
Loma Linda (LLUMC Residents) - Soft tissue chondroma
Long Beach - Chondroma (8)
Monterey (Community Hospital of Monterey Peninsula) - Chondroma
Mountain View (El Camino Pathology Group) - Chondroma
Oakland (Kaiser) - Enchondroma (4)
Orange (UCI Medical Center) - Chondroma, extraskeletal
Riverside - Chondroma
Riverside/Moreno Valley - Extraskeletal chondroma (1); Osteochondroma (1)
Sacramento (UC Davis Medical Center) - Soft tissue chondroma
San Diego (Naval Medical Center) - Chondroma
San Diego - Extraskeletal chondroma
Santa Rosa (Santa Rosa Memorial Hospital) - Chondroma (3)
Sebastopol (Pathology Service) - Osteochondroma
Ventura - Extraosseous chondroma (2)
Alaska, Anchorage - Soft tissue chondroma
Connecticut (University of Connecticut Health Center) - Chondroma
Delaware (Christiana Hospital) - Extraskeletal chondroma
Florida (Munroe Regional Medical Center) - Extraskeletal chondroma
Florida (Pathology Associates) - Extraskeletal chondroma
Florida (Winter Haven Hospital) - Chondroma (1); Chondrosarcoma (1)
Illinois (Du Page Pathology Associates) - Chondroma
Indiana, Fort Wayne - Benign soft tissue chondroma, right index finger
Kansas (University of Kansas Medical Center) - Synovial chondromatous metaplasia
Maryland (Johns Hopkins Hospital) - Extraskeletal chondroma
Maryland (National Naval Medical Center) - Extraskeletal chondroma (12)

Maryland (University of Maryland Medical System) - Chondroma (extraosseous) (10)
Massachusetts (Berkshire Medical Center) - Chondroma
Massachusetts (Brigham and Women's Residents) - Chondroma (favor periosteal but need x-ray)
Massachusetts (New England Medical Center) - Soft tissue chondroma
Michigan (Oakwood Hospital) - Chondroma
Michigan (St. Joseph Mercy Hospital) - Chondroma (4)
Missouri (Truman Medical Center Residents) - Synovial chondromatosis
Nebraska (Creighton University School of Medicine) - Chondroma of soft part
New Jersey (Overlook Hospital) - Chondroma of soft tissue (3)
New York (DVAMC, Northport) - Extraskeletal chondroma
New York (Long Island Jewish Medical Center) - Chondroma of soft part
New York (SUNY Stony Brook University Hospital) - Soft tissue chondroma
North Carolina (St. Joseph Hospital) - Extraskeletal chondroma (2); Chondroma (2)
Pennsylvania (Allegheny General Hospital) - Enchondroma
Pennsylvania (Conemaugh Medical Center Residents) - Chondroma
Pennsylvania (Lehigh Valley Hospital) - Chondroma
Pennsylvania (Mountain Area Pathology) - Extraskeletal chondroma (2); Chondroma (2)
Puerto Rico (University of Puerto Rico) - Chondroma of soft part
Texas (Propath Services) - Chondromatous of finger (2)
West Virginia (Greenbrier Valley Medical Center) - Chondroma - extraosseous
Wisconsin (Meriter Health Services) - Extraskeletal chondroma of small bones of hand and foot
Wisconsin, Whitefish - Chondroma
Australia (North Queensland Pathology Group) - Chondroma
Australia (Royal Prince Alfred Hospital) - Chondroma of soft tissue
Canada (CUSE, Site Fleurimont) - Osteochondroma
Japan (Kawasaki Medical School) - Chondroma of soft part (5)
Japan (Yamanashi Medical University) - Bizarre parosteal osteochondromatous proliferation (1); Enchondroma (1); Osteochondroma (1)
Netherlands - Chondroma of soft part

Case 2 - Diagnosis:

Chondroma of soft parts ("extraskeletal chondroma"), finger
T-Y8890, M-92200

Case 2 - References:

Chee BP, Lim A, Chia JC, et al. Soft Tissue Chondroma in the Finger. A Case Report and Review of the Literature. *Ann Acad Med Singapore* 1999; 28(4):590-592.

Shadan FF, Mascarello JT, Newbury RO, et al. Supernumerary Ring Chromosomes Derived from the Long Arm of Chromosome 12 Cytogenetic Anomaly in a Rare Soft Tissue Chondroma. *Cancer Genet Cytogenet* 2000; 118(2):144-147.

de Poulpiquet P, Segonds JM, Balaire P, et al. Chondroma of the Soft Tissues of the Hand. Report of a Recurrent Case. *Rev Chir Orthop Reparatrice Appar Mot* 1999; 85(8):861-864.

Anthouli-Anagnostopoulou FA and Papachristou G. Extraskeletal Chondroma, A Rare Soft Tissue Tumor. Case Report. *Acta Orthop Belg* 2000; 66(4):402-404.

Kazuki K, Denno K and Hiroshima K. Chondroma within the Flexor Tendon Sheath of the Index Finger. Case Report. *Osaka City Med J* 2000; 46(2):89-94.

Case No. 3, Accession No. 28560 October 2001

Bakersfield - Giant cell tumor of tendon sheath
Bay Area - Giant cell tumor of tendon sheath (3)
Hayward/Fremont - Giant cell tumor of tendon sheath (3)
Loma Linda (LLUMC Residents) - Tenosynovial giant cell tumor, diffuse type
Long Beach - Nodular tenosynovitis (giant cell tumor of tendon sheath) (8)

Monterey (Community Hospital of Monterey Peninsula) - Giant cell tumor of tendon sheath
Mountain View (El Camino Pathology Group) - Giant cell tumor of tendon sheath
Oakland (Kaiser) - Focalized giant cell tumor of tendon sheath
Orange (UCI Medical Center) - Giant cell tumor of tendon sheath
Riverside - Nodular fasciitis
Riverside/Moreno Valley - Tenosynovial giant cell tumor, localized type (1); Nodular tenosynovitis (localized GCT) (1)
Sacramento (UC Davis Medical Center) - Giant cell tumor of tendon sheath
San Diego (Naval Medical Center) - Giant cell tumor of tendon sheath
San Diego - Giant cell tumor of tendon sheath
Santa Rosa (Santa Rosa Memorial Hospital) - Giant cell tumor of tendon sheath (1); Tenosynovial giant cell tumor (2)
Sebastopol (Pathology Service) - Giant cell tumor of tendon sheath
Ventura - Giant cell tumor of tendon sheath (2)
Alaska, Anchorage - Giant cell tumor of tendon sheath (nodular tenosynovitis)
Connecticut (University of Connecticut Health Center) - Giant cell tumor of tendon sheath
Delaware (Christiana Hospital) - Giant cell tumor of tendon sheath
Florida (Munroe Regional Medical Center) - Tenosynovial giant cell tumor
Florida (Pathology Associates) - Giant cell tumor of tendon sheath
Florida (Winter Haven Hospital) - Giant cell tumor of tendon sheath (2)
Illinois (Du Page Pathology Associates) - Giant cell tumor
Indiana, Fort Wayne - Giant cell tumor of tendon sheath, right thumb
Kansas (University of Kansas Medical Center) - Pigmented villonodular synovitis
Maryland (Johns Hopkins Hospital) - Tenosynovial giant cell tumor, localized type (nodular tenosynovitis)
Maryland (National Naval Medical Center) - Giant cell tumor of tendon sheath (12)
Maryland (University of Maryland Medical System) - Giant cell tumor of tendon sheath (10)
Massachusetts (Berkshire Medical Center) - Giant cell tumor of tendon sheath
Massachusetts (Brigham and Women's Residents) - Tenosynovial giant cell tumor, localized type (giant cell tumor of tendon sheath)
Massachusetts (New England Medical Center) - Localized giant cell tumor of tendon sheath
Michigan (Oakwood Hospital) - Nodular tenosynovial giant cell tumor
Michigan (St. Joseph Mercy Hospital) - Giant cell tumor of tendon sheath (4)
Missouri (Truman Medical Center Residents) - Giant cell tumor of tendon sheath
Nebraska (Creighton University School of Medicine) - Giant cell tumor of tendon sheath
New Jersey (Overlook Hospital) - Giant cell tumor of tendon sheath (3)
New York (DVAMC, Northport) - Benign giant cell tumor of tendon sheath
New York (Long Island Jewish Medical Center) - Giant cell tumor of tendon sheath
New York (SUNY Stony Brook University Hospital) - Giant cell tumor of tendon sheath
North Carolina (St. Joseph Hospital) - Giant cell tumor of tendon sheath (4)
Pennsylvania (Allegheny General Hospital) - Giant cell tumor of tendon sheath
Pennsylvania (Conemaugh Medical Center Residents) - Giant cell tumor
Pennsylvania (Lehigh Valley Hospital) - Nodular tenosynovitis
Pennsylvania (Mountain Area Pathology) - Giant cell tumor of tendon sheath (4)
Puerto Rico (University of Puerto Rico) - Giant cell tumor of tendon sheath
Texas (Propath Services) - Xanthofibroma (giant cell tumor of tendon sheath) (2)
West Virginia (Greenbrier Valley Medical Center) - Tenosynovial giant cell tumor
Wisconsin (Meriter Health Services) - Giant cell tumor of tendon sheath
Wisconsin, Whitefish - Giant cell tumor of tendon sheath
Australia (North Queensland Pathology Group) - Giant cell tumour of tendon sheath
Australia (Royal Prince Alfred Hospital) - Giant cell tumour of tendon sheath
Canada (CUSE, Site Fleurimont) - Giant cell tumor of tendon sheath
Japan (Kawasaki Medical School) - Nodular tenosynovitis (5)
Japan (Yamanashi Medical University) - Giant cell tumor of tendon sheath (3)
Netherlands - Giant cell tumor of tendon sheath

Case 3 - Diagnosis:

Giant cell tumor of tendon sheath (localized tenosynovial giant cell tumor), finger
T-Y8810, M-47830

Case 3 - References:

Reilly KE, Stern PJ, et al. Recurrent Giant Cell Tumors of the Tendon Sheath. *J Hand Surg* 1999; 24(6):1298-1302

Kotwal PP, Gupta V and Malhotra R. Giant-Cell Tumour of the Tendon Sheath. Is Radiotherapy Indicated to Prevent Recurrence After Surgery? *J Bone Joint Surg Br* 2000; 82(4):571-573.

Lawson L, VanLerberg N and Tawfik O. Pulmonary Metastasis from a Benign Giant-Cell Tumor of the Hand. Report of a Case Diagnosed by Fine-Needle Aspiration Cytology. *Diagn Cytopathol* 1996; 15(2):157-160.

Wood GS, Beckstead JH, Medeiros LS, et al. The Cells of Giant Cell Tumor of Tendon Sheath Resemble Osteoclasts. *Am J Surg Pathol* 1988; 12(6):444-452.

Case No. 4, Accession No. 27775 — October 2001

Bakersfield - Benign myxoid tumor of nerve sheath
Bay Area - Plexiform neurofibroma (or peripheral nerve sheath tumor) (3)
Hayward/Fremont - Neurothekeoma (2); Myxoma of nerve sheath (1)
Loma Linda (LLUMC Residents) - Neurothekeoma
Long Beach - Nerve sheath myxoma (8)
Monterey (Community Hospital of Monterey Peninsula) - Neurothekeoma
Mountain View (El Camino Pathology Group) - Myxoid nerve sheath tumor
Oakland (Kaiser) - Nerve sheath myxoma (4)
Orange (UCI Medical Center) - Neurothekeoma
Riverside - Schwannoma myxoid
Riverside/Moreno Valley - Neruothekeoma (2)
Sacramento (UC Davis Medical Center) - Neurothekeoma
San Diego (Naval Medical Center) - Nerve sheath myxoma (9); Parachordoma (2)
San Diego - Parachordoma
Santa Rosa (Santa Rosa Memorial Hospital) - Myxoid schwannoma (3)
Sebastopol (Pathology Service) - Lipofibromatous hamartoma
Ventura - Schwannoma (2)
Alaska, Anchorage - Nerve sheath myxoma (neurothekeoma)
Connecticut (University of Connecticut Health Center) - Malignant peripheral nerve sheath tumor, low grade
Delaware (Christiana Hospital) - Neurothekeoma
Florida (Munroe Regional Medical Center) - Neurothekeoma
Florida (Pathology Associates) - Myxoid schwannoma
Florida (Winter Haven Hospital) - Neurofibroma (1); Ganglioneuroma (1)
Illinois (Du Page Pathology Associates) - Schwannoma, myxoid
Indiana, Fort Wayne - Myxoma of nerve sheath (myxoid variant of neurothekeoma), wrist (right)
Kansas (University of Kansas Medical Center) - Myoepithelioma/mixed tumor of soft tissue
Maryland (Johns Hopkins Hospital) - Nerve sheath myxoma/neurothekeoma
Maryland (National Naval Medical Center) - Myxoid nerve sheath tumor (neurothekeoma) (12)
Maryland (University of Maryland Medical System) - Nerve sheath myxoma (10)
Massachusetts (Berkshire Medical Center) - Nerve sheath myxoma
Massachusetts (Brigham and Women's Residents) - Mixed tumor of soft tissue (vs. dermal nerve sheath myxoma)
Massachusetts (New England Medical Center) - Neurothekeoma
Michigan (Oakwood Hospital) - Neurothekeoma
Michigan (St. Joseph Mercy Hospital) - Neurothekeoma (4)
Missouri (Truman Medical Center Residents) - Neurothekeoma/glial hamartoma
Nebraska (Creighton University School of Medicine) - Mixed tumor of skin

New Jersey (Overlook Hospital) - Nerve sheath myxoma (3)
New York (DVAMC, Northport) - Myxoid tumor with benign features (nerve sheath myxoma?)
New York (Long Island Jewish Medical Center) - Plexiform neurofibroma
New York (SUNY Stony Brook University Hospital) - Neurothekeoma
North Carolina (St. Joseph Hospital) - Plexiform neurofibroma (3); Neurothekeoma vs. plexiform neurofibroma (1)
Pennsylvania (Allegheny General Hospital) - Neurothekeoma
Pennsylvania (Conemaugh Medical Center Residents) - Nerve sheath myxoma
Pennsylvania (Lehigh Valley Hospital) - Plexiform neurofibroma
Pennsylvania (Mountain Area Pathology) - Plexiform neurofibroma (1); Nerve sheath myxoma (2); Myxoid chondrosarcoma (1)
Puerto Rico (University of Puerto Rico) - Peripheral nerve sheath tumor
Texas (Propath Services) - Benign myxoid tumor of nerve sheath (neurothekeoma) (2)
West Virginia (Greenbrier Valley Medical Center) - Myxoid malignant fibrosarcoma
Wisconsin (Meriter Health Services) - Myxoid plexiform neurofibroma vs. neuroma
Wisconsin, Whitefish - Chondroma
Australia (North Queensland Pathology Group) - Myxoid peripheral nerve sheath tumour
Australia (Royal Prince Alfred Hospital) - Myxoid plexiform neurofibroma
Canada (CUSE, Site Fleurimont) - Schwannoma, type B
Japan (Kawasaki Medical School) - Nerve sheath myxoma (3); Neurofibroma (1); Plexiform schwannoma (1)
Japan (Yamanashi Medical University) - Neurothekeoma (nerve sheath myxoma) (2); Extraskeletal myxoid chondrosarcoma (1)
Netherlands - Nerve sheath myxoma (neurothekeoma)

Case 4 - Diagnosis:

Neurothekeoma ("Nerve sheath myxoma"), wrist
T-Y8600, M-80001

Consultation: Samuel H. Fistel, M.D., Major, Armed Forces Institute of Pathology, Washington, DC. "Soft tissue, right wrist: Multinodular benign myxoid neoplasm, favor variant of nerve sheath tumor."

Case 4 - References:

Bhaskar AR and Kanvinde R. Neurothekeoma of the Hand. *J Hand Surg* 1999; 24(5):631-633.
Chatelain D, Ricard J, Colombat M, et al. Cellular Neurothekeoma, a Rare Cutaneous Tumor. Anatomo-Clinical Immunohistochemical. 2 Cases. *Ann Pathol* 2000; 20(3):225-227.
Laskin WB, Fetsch JF and Miettinen M. The "Neurothekeoma". Immunohistochemical Analysis Distinguishes the True Nerve Sheath Myxoma from its Mimics. *Hum Pathol* 2000 31(10):1230-1241.
Strumia R, Lombardi AR and Cavazzini L. S-100 Negative Myxoid Neurothekeoma. *Am J Dermatopathol* 2001; 23(1):82-83.
Busam KJ, Mentzel T, Colpaert C, et al. Atypical or Worrisome Features in Cellular Neurothekeoma. A Study of 10 Cases. *Am J Surg Pathol* 1998; 22(9):1067-1072.
Wang AR, May D, Bourne P, et al. PGP9.5. A Marker for Cellular Neurothekeoma. *Am J Surg Pathol* 1999; 23(11):1401-1407.

Case No. 5, Accession No. 28928 — October 2001

Bakersfield - Granular cell tumor
Bay Area - Granular cell tumor (3)
Hayward/Fremont - Granular cell tumor (3)
Loma Linda (LLUMC Residents) - Granular cell tumor
Long Beach - Granular cell tumor (8)
Monterey (Community Hospital of Monterey Peninsula) - Granular cell tumor
Mountain View (El Camino Pathology Group) - Granular cell tumor
Oakland (Kaiser) - Granular cell tumor (4)
Orange (UCI Medical Center) - Granular cell tumor
Riverside - Granular cell schwannoma
Riverside/Moreno Valley - Granular cell tumor (2)
Sacramento (UC Davis Medical Center) - Malignant granular cell tumor

San Diego (Naval Medical Center) - Granular cell tumor
San Diego - Granular cell tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Granular cell tumor (3)
Sebastopol (Pathology Service) - Granular cell tumor
Ventura - Granular cell tumor
Alaska, Anchorage - Granular cell tumor
Connecticut (University of Connecticut Health Center) - Granular cell tumor
Delaware (Christiana Hospital) - Granular cell tumor
Florida (Munroe Regional Medical Center) - Granular cell tumor
Florida (Pathology Associates) - Granular cell tumor
Florida (Winter Haven Hospital) - Granular cell tumor (2)
Illinois (Du Page Pathology Associates) - Granular cell tumor
Indiana, Fort Wayne - Granular cell tumor, left wrist
Kansas (University of Kansas Medical Center) - Granular cell tumor
Maryland (Johns Hopkins Hospital) - Granular cell tumor
Maryland (National Naval Medical Center) - Granular cell tumor (12)
Maryland (University of Maryland Medical System) - Granular cell tumor (10)
Massachusetts (Berkshire Medical Center) - Granular cell tumor
Massachusetts (Brigham and Women's Residents) - Granular cell tumor
Massachusetts (New England Medical Center) - Granular cell tumor
Michigan (Oakwood Hospital) - Granular cell tumor
Michigan (St. Joseph Mercy Hospital) - Granular cell tumor (4)
Missouri (Truman Medical Center Residents) - Granular cell tumor
Nebraska (Creighton University School of Medicine) - Granular cell tumor
New Jersey (Overlook Hospital) - Granular cell tumor (3)
New York (DVAMC, Northport) - Granular cell tumor
New York (Long Island Jewish Medical Center) - Granular cell tumor associated with pseudoepitheliomatous hyperplasia
New York (SUNY Stony Brook University Hospital) - Granular cell tumor
North Carolina (St. Joseph Hospital) - Granular cell tumor (4)
Pennsylvania (Allegheny General Hospital) - Granular cell tumor
Pennsylvania (Conemaugh Medical Center Residents) - Granular cell tumor, benign
Pennsylvania (Lehigh Valley Hospital) - Granular cell tumor
Pennsylvania (Mountain Area Pathology) - Granular cell tumor (4)
Puerto Rico (University of Puerto Rico) - Granular cell tumor
Texas (Propath Services) - Benign granular cell tumor (2)
West Virginia (Greenbrier Valley Medical Center) - Congenital nevus
Wisconsin (Meriter Health Services) - Granular cell tumor
Wisconsin, Whitefish - Granular cell tumor
Australia (North Queensland Pathology Group) - Granular cell tumour
Australia (Royal Prince Alfred Hospital) - Granular cell tumour
Canada (CUSE, Site Fleurimont) - Granular cell tumor
Japan (Kawasaki Medical School) - Granular cell tumor (5)
Japan (Yamanashi Medical University) - Granular cell tumor (3)
Netherlands - Granular cell tumor

Case 5 - Diagnosis:

Granular cell tumor, wrist
T-Y8620, M-95800

Case 5 - References:

Ordonez NG and Mackay B. Granular Cell Tumor. A Review of the Pathology and Histogenesis. *Ultrastruct Pathol* 1999; 23(4):207-222.
Menaker GM and Sanger Jr. Granular Cell Tumor of Uncertain Malignant Potential. *Ann Plast Surg* 1997; 38(6):658-660.
Ordonez NG. Granular Cell Tumor. A Review and Update. *Adv Anat Pathol* 1999; 6(4):186-203.

Gokaslan ST, Terzakis JA, et al. Malignant Granular Cell Tumor. *J Cutan Pathol* 1994; 21(3):263-270.
Fanburg-Smith JC, Meis-Kindblom, JM, et al. Malignant Granular Cell Tumor of Soft Tissue. Diagnostic Criteria and Clinicopathol Correlation. *Am J Surg Pathol* 1998; 22(7):779-794.
Weiss SW, Langloss JM and Enzinger FM. Value of S-100 Protein in the Diagnosis of Soft Tissue Tumors with Particular Reference to Benign and Malignant Schwann Cell Tumors. *Lab Invest* 1983; 49(3):299-308.

Case No. 6, Accession No. 27702 October 2001

Bay Area - Low grade sarcoma, NOS (? clear cell) (2); Fibrohistiocytoma (cannot rule out reactive pseudotumor) (1)
Hayward/Fremont - Metastatic renal cell carcinoma (1); Angiosarcoma (1); Clear cell sarcoma (1)
Loma Linda (LLUMC Residents) - Pigmented villonodular synovitis
Long Beach - Metastatic renal cell carcinoma (8)
Monterey (Community Hospital of Monterey Peninsula) - Epithelioid hemangioendothelioma
Mountain View (El Camino Pathology Group) - Organizing abscess with xanthomatous features
Oakland (Kaiser) - Clear cell sarcoma (4)
Orange (UCI Medical Center) - Metastatic renal cell tumor
Riverside - Fibrohistiocytoma reaction
Riverside/Moreno Valley - Clear cell/aneurysmal fibrous histiocytoma (1); Fibrous histiocytoma (angiomatoid vs. clear cell)
Sacramento (UC Davis Medical Center) - Hemangioendothelioma (6); vs. xanthogranuloma (4)
San Diego (Naval Medical Center) - Angiomatoid fibrous histiocytoma
San Diego - Angiomatoid fibrous histiocytoma
Santa Rosa (Santa Rosa Memorial Hospital) - Reactive myositis (3)
Sebastopol (Pathology Service) - Inflammatory pseudotumor
Ventura - Liposarcoma (2)
Alaska, Anchorage - Hibernoma
Connecticut (University of Connecticut Health Center) - Angiomatoid fibrous histiocytoma vs. malignant fibrous histiocytoma, inflammatory variant
Delaware (Christiana Hospital) - Pigmented villonodular synovitis
Florida (Munroe Regional Medical Center) - Proliferative myositis
Florida (Pathology Associates) - Benign inflammatory pseudotumor
Florida (Winter Haven Hospital) - Bacterial myofasciitis (1); Angiolipoma (1)
Illinois (Du Page Pathology Associates) - Clear cell tumor of tendon sheath
Indiana, Fort Wayne - Granular cell reaction - xanthogranulomatous reaction 2° to trauma, left thigh
Kansas (University of Kansas Medical Center) - Localized nodular synovitis
Maryland (Johns Hopkins Hospital) - Favor proliferative/reactive process possibly infectious – could this be malakoplakia? Would perform fungal, mycobacterial and calcium stains
Maryland (National Naval Medical Center) - Rosai-Dorfman (6); Clear cell sarcoma (5); Organizing abscess (1)
Maryland (University of Maryland Medical System) - Rosai-Dorfman (10)
Massachusetts (Berkshire Medical Center) - Renal cell carcinoma vs. clear cell sarcoma of tendon sheath
Massachusetts (Brigham and Women's Residents) - Extensive granulation tissue (no tumor seen in our slide)
Massachusetts (New England Medical Center) - Clear cell sarcoma
Michigan (Oakwood Hospital) - Granular cell reaction
Michigan (St. Joseph Mercy Hospital) - Malakoplakia (2); Inflammatory myofibroblastic tumor (2)
Missouri (Truman Medical Center Residents) - Pleomorphic hyalinizing angioectatic tumor
Nebraska (Creighton University School of Medicine) - Proliferating synovitis
New Jersey (Overlook Hospital) - Metastatic carcinoma (2); Inflammatory pseudotumor (1)
New York (DVAMC, Northport) - Clear cell sarcoma
New York (Long Island Jewish Medical Center) - Inflammatory pseudotumor
New York (SUNY Stony Brook University Hospital) - Inflammatory malignant fibrous histiocytoma
North Carolina (St. Joseph Hospital) - Epithelioid hemangioendothelioma (rule out metastatic renal) (2); Epithelioid hemangioendothelioma vs. clear cell metastatic tumor (1); Clear cell neoplasm, rule out renal cell (1)
Pennsylvania (Allegheny General Hospital) - Benign fibrous histiocytoma (xanthogranuloma)

Pennsylvania (Conemaugh Medical Center Residents) - Xanthogranuloma

Pennsylvania (Lehigh Valley Hospital) - Xanthogranulomatous inflammation

Pennsylvania (Mountain Area Pathology) - Hemangioedothelioma vs. clear cell sarcoma (1); Vascular lesion ?/epithelioid hemangioendoethelioma (1); Epithelioid hemangioendothelioma (2)

Puerto Rico (University of Puerto Rico) - Inflammatory pseudotumor (9); Rosai-Dorfman disease (2)

Texas (Propath Services) - Bacillary angiomatosis (2)

West Virginia (Greenbrier Valley Medical Center) - Atypical lipoma

Wisconsin (Meriter Health Services) - Rosai-Dorfman lesion vs. reparative lesion

Wisconsin, Whitefish - Malacoplakia

Australia (North Queensland Pathology Group) - Liposarcoma ???

Australia (Royal Prince Alfred Hospital) - ? ruptured tendinous xanthoma ? xanthogranulomatous inflammation

Canada (CUSE, Site Fleurimont) - Metastasis, renal clear cell carcinoma

Japan (Kawasaki Medical School) - Tendinous xanthoma (5)

Japan (Yamanashi Medical University) - Inflamed granulation tissue with abscess (1); Necrotizing fasciitis (1); Proliferative myositis (1)

Netherlands - Reactive ? or Rosai-Dorfman ?

Case 6 - Diagnosis:

Consistent with diffuse tenosynovitis, thigh (near knee)

T-Y9100, M-40000

Case 6 - References:

Byers PO, Cotton RE, Decon OW, et al. The Diagnosis and Treatment of Pigmented Villonodular Synovitis. *J Bone Joint Surg Br* 1968; 50:290-305.

Fechner RE. Neoplasms and Neoplasm-Like Lesions of the Synovium. *Int Acad of Pathol Monograph.* Bones and Joints. 1976; 152-181.

Somerhausen NS and Fletcher CD. Diffuse-Type Giant Cell Tumor. Clinicopathologic and Immunohistochemical Analysis of 50 Cases with Extraarticular disease. *Am J Surg Pathol* 2000; 24(4):479-492.

Vogrincic GS, O'Connell JX and Gilks CB. Giant Cell Tumor of Tendon Sheath is a Polyclonal Cellular Proliferation. *Hum Pathol* 1997; 28(7):815-819.

Silverman JS and Knapik M. Tendon Sheath Giant Cell Tumors. *Hum Pathol* 1995; 26(7):771-775.

Case No. 7, Accession No. 29155 October 2001

Bakersfield - Synovial sarcoma

Bay Area - Synovial sarcoma (3)

Hayward/Fremont - Synovial sarcoma (3)

Loma Linda (LLUMC Residents) - Synovial sarcoma

Long Beach - Synovial sarcoma (8)

Monterey (Community Hospital of Monterey Peninsula) - Biphasic synovial sarcoma

Mountain View (El Camino Pathology Group) - Synovial sarcoma

Oakland (Kaiser) - Synovial sarcoma (4)

Orange (UCI Medical Center) - Synovial sarcoma

Riverside - Synovial sarcoma

Riverside/Moreno Valley - Synovial sarcoma, biphasic (2)

Sacramento (UC Davis Medical Center) - Vascular tumor favor lymphoangiosarcoma

San Diego (Naval Medical Center) - Biphasic synovial sarcoma

San Diego - Synovial sarcoma

Santa Rosa (Santa Rosa Memorial Hospital) - Synovial sarcoma (3)

Sebastopol (Pathology Service) - Biphasic synovial sarcoma

Ventura - Synovial sarcoma (2)

Alaska, Anchorage - Biphasic synovial sarcoma

Connecticut (University of Connecticut Health Center) - Synovial sarcoma

Delaware (Christiana Hospital) - Synovial sarcoma
Florida (Munroe Regional Medical Center) - Synovial sarcoma
Florida (Pathology Associates) - Synovial sarcoma, biphasic
Florida (Winter Haven Hospital) - Synovial sarcoma (1); Fibrosarcoma (1)
Illinois (Du Page Pathology Associates) - Synovial sarcoma
Indiana, Fort Wayne - Biphasic synovial sarcoma, right foot
Kansas (University of Kansas Medical Center) - Synovial sarcoma
Maryland (Johns Hopkins Hospital) - Biphasic synovial sarcoma (would perform cytokeratin immunostains to confirm)
Maryland (National Naval Medical Center) - Synovial sarcoma (12)
Maryland (University of Maryland Medical System) - Biphasic synovial sarcoma
Massachusetts (Berkshire Medical Center) - Synovial sarcoma
Massachusetts (Brigham and Women's Residents) - Biphasic synovial sarcoma
Massachusetts (New England Medical Center) - Biphasic synovial sarcoma
Michigan (Oakwood Hospital) - Biphasic synovial sarcoma
Michigan (St. Joseph Mercy Hospital) - Synovial sarcoma (4)
Missouri (Truman Medical Center Residents) - Synovial sarcoma
Nebraska (Creighton University School of Medicine) - Biphasic spindle-cell synovial sarcoma
New Jersey (Overlook Hospital) - Synovial sarcoma, biphasic (3)
New York (DVAMC, Northport) - Synovial sarcoma, biphasic
New York (Long Island Jewish Medical Center) - Biphasic synoviosarcoma
New York (SUNY Stony Brook University Hospital) - Synovial sarcoma
North Carolina (St. Joseph Hospital) - Synovial sarcoma (4)
Pennsylvania (Allegheny General Hospital) - Synovial sarcoma
Pennsylvania (Conemaugh Medical Center Residents) - Biphasic synovial sarcoma
Pennsylvania (Lehigh Valley Hospital) - Synovial sarcoma
Pennsylvania (Mountain Area Pathology) - Hemangiopericytoma (1); Synovial sarcoma (biphasic) (3)
Puerto Rico (University of Puerto Rico) - Synovial sarcoma, biphasic
Texas (Propath Services) - Synovial cell sarcoma (2)
West Virginia (Greenbrier Valley Medical Center) - Clear cell sarcoma
Wisconsin (Meriter Health Services) - Synovial sarcoma
Wisconsin, Whitefish - Synovial sarcoma
Australia (North Queensland Pathology Group) - Synovial sarcoma
Australia (Royal Prince Alfred Hospital) - Synovial sarcoma (biphasic variant)
Canada (CUSE, Site Fleurimont) - Synovial sarcoma
Japan (Kawasaki Medical School) - Synovial sarcoma (5)
Japan (Yamanashi Medical University) - Synovial cell sarcoma (3)
Netherlands - Biphasic synovial sarcoma

Case 7 - Diagnosis:

Biphasic synovial sarcoma, foot
T-Y9700, M-90403

Case 7 - References:

Scully SP, Temple HT and Harrelson JM. Synovial Sarcoma of the Foot and Ankle. *Clin Orthop* 1999; 364:220-226.

Potter GK, Walkes MH and Penny TR. Tenosynovial Sarcoma. A Clinicopathologic Review of Foot Cases with a Case Report. *J Am Podiatry Assoc* 1984; 74(7):312-322.

Antonescu CR, Kawai A, Leung DH, et al. Strong Association of SYT-SSX Fusion Type and Morphologic Epithelial Differentiation in Synovial Sarcoma. *Diagn Mol Pathol* 2000; 9(1):1-8.

Bergh P, Meis-Kindblom JM, Gherlinzoni F, et al. Synovial Sarcoma. Identification of Low and High Risk Groups. *Cancer* 1999; 85(12):2596-2607.

Inagaki H, Murase T, Otsuka T, et al. Detection of SYT-SSX Fusion Transcript in Synovial Sarcoma Using Archival Cytologic Specimens. *Am J Pathol* 1999; 111(4):528-533.

Bakersfield - Giant cell tumor
Bay Area - Osteosarcoma (3)
Hayward/Fremont - Giant cell tumor, rule out brown tumor (3)
Loma Linda (LLUMC Residents) - Giant cell reparative granuloma
Long Beach - Giant cell tumor (8)
Monterey (Community Hospital of Monterey Peninsula) - Giant cell tumor
Mountain View (El Camino Pathology Group) - Giant cell tumor?/brown tumor?
Oakland (Kaiser) - Giant cell tumor (3); Chondroblastoma (1)
Orange (UCI Medical Center) - Reparative granuloma
Riverside - Giant cell tumor
Riverside/Moreno Valley - Soft tissue giant cell tumor of low malignant potential (1); Aneurysmal bone cyst/reparative granuloma (1)
Sacramento (UC Davis Medical Center) - Osteosarcoma vs. giant cell tumor (1)
San Diego (Naval Medical Center) - Giant cell reparative granuloma (4); Chondroblastoma (5)
San Diego - Favor chondroblastoma
Santa Rosa (Santa Rosa Memorial Hospital) - Giant cell tumor of low malignant potential (3)
Sebastopol (Pathology Service) - Giant cell tumor
Ventura - Giant cell tumor of tendon sheath (2)
Alaska, Anchorage - Giant cell reparative granuloma
Connecticut (University of Connecticut Health Center) - Giant cell reparative granuloma of tubular bone or giant cell tumor with bone formation
Delaware (Christiana Hospital) - Giant cell tumor
Florida (Munroe Regional Medical Center) - Giant cell tumor favor chondroblastoma
Florida (Pathology Associates) - Benign fibrochondro-osseous pseudotumor of digit
Florida (Winter Haven Hospital) - Benign giant cell tumor (1); Osteosarcoma (1)
Illinois (Du Page Pathology Associates) - Osteoid osteoma
Indiana, Fort Wayne - Giant cell neoplasm (subungual), extragnathic reparative granuloma, great toe (rule out solid variant of ABC)
Kansas (University of Kansas Medical Center) - Giant cell tumor of bone
Maryland (Johns Hopkins Hospital) - Giant cell reparative granuloma
Maryland (National Naval Medical Center) - Florid periostitis (6); Bizarre parosteal osteochondromatous proliferation (6)
Maryland (University of Maryland Medical System) - Giant cell reparative granuloma
Massachusetts (Berkshire Medical Center) - Osteosarcoma (3); Giant cell reparative granuloma (2)
Massachusetts (Brigham and Women's Residents) - Chondroblastoma
Massachusetts (New England Medical Center) - Giant cell variant, malignant fibrous histiocytoma (giant cell tumor of soft tissue) with metaplastic bone and cartilage
Michigan (Oakwood Hospital) - Giant cell reparative granuloma
Michigan (St. Joseph Mercy Hospital) - Giant cell reparative granuloma (4)
Missouri (Truman Medical Center Residents) - Myositis ossification
Nebraska (Creighton University School of Medicine) - Subungual exostoses
New Jersey (Overlook Hospital) - Giant cell reparative granuloma (3)
New York (DVAMC, Northport) - Osteosarcoma with prominent benign giant cells (telangiectatic osteosarcoma?)
New York (Long Island Jewish Medical Center) - Chondroblastoma
New York (SUNY Stony Brook University Hospital) - Chondroblastoma
North Carolina (St. Joseph Hospital) - Giant cell tumor (4)
Pennsylvania (Allegheny General Hospital) - Osteosarcoma
Pennsylvania (Conemaugh Medical Center Residents) - Giant cell tumor
Pennsylvania (Lehigh Valley Hospital) - Giant cell type of malignant fibrous histiocytoma
Pennsylvania (Mountain Area Pathology) - Giant cell tumor (3); Giant cell reparative granuloma (1)
Puerto Rico (University of Puerto Rico) - Fibro-osseous pseudotumor of the digits
Texas (Propath Services) - Benign giant cell tumor (2)
West Virginia (Greenbrier Valley Medical Center) - Xanthoma

Wisconsin (Meriter Health Services) - Giant cell tumor of soft part

Wisconsin, Whitefish - Reparative granuloma

Australia (North Queensland Pathology Group) - Giant cell tumour of low malignant potential D.O. osteoclast rich osteosarcoma

Australia (Royal Prince Alfred Hospital) - Solid aneurysmal bone "cyst"

Canada (CUSE, Site Fleurimont) - Giant cell tumor

Japan (Kawasaki Medical School) - Giant cell tumor (4); Chondroblastoma (1)

Japan (Yamanashi Medical University) - Giant cell tumor of soft tissue (1); Reactive ossifying lesion after trauma (1); Myositis ossificans (1)

Netherlands - Giant cell reparative granuloma of foot, exclude "brown tumor" of hyperparathyroidism

Case 8 - Diagnosis:

Chondroblastoma, toe

Director's comment: Note the preserve of "dirty cartilage." (drc)

T-Y9800, M-92300

Case 8 – References:

Leibovici M, Georgescu N and Awad R. A Benign Chondroblastoma with a Rare Location. *Morphol Embryol (Bucur)* 1985; 31(2):123-125.

Fink BR, Temple HT, Chiricosta FM, et al. Chondroblastoma of the Foot. *Foot Ankle Int* 1997; 18(4):236-242.

Blitch E and Mendicino RW. Chondroblastoma of the Calcaneus. Literature Review and Case Presentation. *J Foot Ankle Surg* 1996; 35(3):250-254.

Yu GV and Sellers CS. Chondroblastoma of the Talus. *J Foot Ankle Surg* 1996; 35(1):72-77.

Ostrowski ML and Spjut HJ. Lesions of the Bones of the Hands and Feet. *Am J Surg Pathol* 1997; 21(6):676-690.

Case No. 9, Accession No. 27593 October 2001

Bakersfield - Peripheral neuroectodermal tumor

Bay Area - Peripheral neuroectodermal tumor (PNET) (3)

Hayward/Fremont - Glomangioma (2); Malignant glomangioma (1)

Loma Linda (LLUMC Residents) - Glomus tumor

Long Beach - Chondroblastoma (8)

Monterey (Community Hospital of Monterey Peninsula) - Chondrosarcoma, extraskeletal

Mountain View (El Camino Pathology Group) - Primitive small round cell tumor

Oakland (Kaiser) - Mesenchymal chondrosarcoma (4)

Orange (UCI Medical Center) - Primitive neuroectoderm tumor

Riverside - Malignant histiocytoma

Riverside/Moreno Valley - Extraskeletal mesenchymal chondrosarcoma (2)

Sacramento (UC Davis Medical Center) - Peripheral neuroectodermal tumor, NOS

San Diego (Naval Medical Center) - PNET/Ewing's (2); Mesenchymal chondrosarcoma (4); Epithelial malignant peripheral nerve sheath tumor (1)

San Diego - Favor epithelial malignant peripheral nerve sheath tumor

Santa Rosa (Santa Rosa Memorial Hospital) - Sarcoma, NOS (1); Small cell sarcoma with chondroid differentiation rule out PNET (2)

Sebastopol (Pathology Service) - Possible synovial tumor, possible sarcoma

Ventura - Pigmented villonodular synovitis (2)

Alaska, Anchorage - Embryonal rhabdomyosarcoma

Connecticut (University of Connecticut Health Center) - Extraskeletal osteogenic sarcoma vs. osteoid forming synovial sarcoma

Delaware (Christiana Hospital) - Extraskeletal mesenchymal chondrosarcoma

Florida (Munroe Regional Medical Center) - Primitive neuroectodermal tumor

Florida (Pathology Associates) - Mesenchymal chondrosarcoma

Florida (Winter Haven Hospital) - Osteosarcoma (1); Parosteal sarcoma (1)

Illinois (Du Page Pathology Associates) - Peripheral neuroectodermal tumor

Indiana, Fort Wayne - Mesenchymal chondrosarcoma, left foot

Kansas (University of Kansas Medical Center) - Extraskeletal Ewing's sarcoma

Maryland (Johns Hopkins Hospital) - Poorly differentiated malignant neoplasm, favor malignant peripheral nerve sheath tumor with rhabdomyoblasts - Triton tumor

Maryland (National Naval Medical Center) - Epithelioid malignant peripheral nerve sheath tumor, Triton tumor (1)

Maryland (University of Maryland Medical System) - Primitive malignant ectomesenchymoma

Massachusetts (Berkshire Medical Center) - Rhabdomyosarcoma, NOS

Massachusetts (Brigham and Women's Residents) - Mesenchymal chondrosarcoma

Massachusetts (New England Medical Center) - Malignant primitive neuroectodermal tumor/Ewing's sarcoma; Differential diagnosis: Rhabdomyosarcoma

Michigan (Oakwood Hospital) - Malignant, favor clear cell sarcoma

Michigan (St. Joseph Mercy Hospital) - Ewing's sarcoma (4)

Missouri (Truman Medical Center Residents) - Embryonal rhabdomyosarcoma

Nebraska (Creighton University School of Medicine) - Peripheral neuroectodermal tumor/extraskeletal Ewing's

New Jersey (Overlook Hospital) - Peripheral neuroectodermal tumor (2); Atypical chondroblastoma (1)

New York (DVAMC, Northport) - Malignant peripheral nerve sheath tumor

New York (Long Island Jewish Medical Center) - Extraskeletal myxoid chondrosarcoma

New York (SUNY Stony Brook University Hospital) - Extraskeletal Ewing's sarcoma

North Carolina (St. Joseph Hospital) - Chondroblastoma (4)

Pennsylvania (Allegheny General Hospital) - Mesenchymal chondrosarcoma

Pennsylvania (Conemaugh Medical Center Residents) - Ewing's sarcoma

Pennsylvania (Lehigh Valley Hospital) - Extraskeletal osteosarcoma

Pennsylvania (Mountain Area Pathology) - Rhabdomyosarcoma (1); Small blue cell tumor/rhabdomyosarcoma vs. PNET/Ewing's (1) PNET/Ewing's (2)

Puerto Rico (University of Puerto Rico) - Primitive neuroectodermal tumor/Ewing sarcoma

Texas (Propath Services) - Peripheral neuroepithelioma (2)

West Virginia (Greenbrier Valley Medical Center) - Extraskeletal Ewing's sarcoma

Wisconsin (Meriter Health Services) - Chondrosarcoma of soft parts

Wisconsin, Whitefish - Hemangiopericytoma

Australia (North Queensland Pathology Group) - High grade chondrosarcoma

Australia (Royal Prince Alfred Hospital) - Soft tissue chondroblastoma

Canada (CUSE, Site Fleurimont) - Peripheral neuroectodermal tumor

Japan (Kawasaki Medical School) - Mesenchymal chondrosarcoma (4); Peripheral neuroectodermal tumor (1)

Japan (Yamanashi Medical University) - Rhabdomyosarcoma (1); Clear cell sarcoma (1); Extraskeletal myxoid chondrosarcoma (1)

Netherlands - Extraskeletal myxoid chondrosarcoma

Case 9 - Diagnosis:

Mesenchymal chondrosarcoma, foot

T-Y9700, M-92403

Consultation: John Brooks, M.D. "Mesenchymal chondrosarcoma."

Case 9 – References:

Sans M, Nubiola D, Alejo M, Diaz F, Anglada A, et al. Mesenchymal Chondrosarcoma of the Foot, An Unusual Location. Case Report and Review of the Literature. *Med Pediatr Oncol* 1996; 26(2):139-142.

Adler CP. Case Report 788. Mesenchymal Chondrosarcoma of the Soft Tissue of the Left Foot. *Skeletal Radiol* 1993; 22(4):300-305.

Granter SR, Renshaw AA, et al. CD99 Reactivity in Mesenchymal Chondrosarcoma. *Hum Pathol* 1996; 27(12):1273-1276.

Case No. 10, Accession No. 28533 October 2001

Bakersfield - Angiomyoma

Bay Area - Angiomyofibroma (3)

Hayward/Fremont - Angiomyoma (3)

Loma Linda (LLUMC Residents) - Vascular leiomyoma
Long Beach - Leiomyoma (8)
Monterey (Community Hospital of Monterey Peninsula) - Fibroma
Mountain View (El Camino Pathology Group) - Vascular leiomyoma
Oakland (Kaiser) - Leiomyoma (4)
Orange (UCI Medical Center) - Angioleiomyoma
Riverside - Ancient schwannoma
Riverside/Moreno Valley - Vascular leiomyoma (angiomyoma) (1); Benign smooth muscle tumor (leiomyoma – vascular origin)
Sacramento (UC Davis Medical Center) - Cutaneous angioleiomyoma
San Diego (Naval Medical Center) - Angiomyoma
San Diego - Angiomyoma
Santa Rosa (Santa Rosa Memorial Hospital) - Leiomyoma (2); Vascular leiomyoma (1)
Sebastopol (Pathology Service) - Neuroma
Ventura - Leiomyoma (2)
Alaska, Anchorage - Collagenous fibroma (desmoplastic fibroblastoma)
Connecticut (University of Connecticut Health Center) - Vascular leiomyoma
Delaware (Christiana Hospital) - Leiomyoma
Florida (Munroe Regional Medical Center) - Fibromatosis
Florida (Pathology Associates) - Benign fibroma of tendon sheath
Florida (Winter Haven Hospital) - Leiomyoma (1); Fibroma (1)
Illinois (Du Page Pathology Associates) - Fibroma of tendon sheath
Indiana, Fort Wayne - Collagenous fibroma (desmoplastic fibroblastoma), ankle
Kansas (University of Kansas Medical Center) - Fibroma
Maryland (Johns Hopkins Hospital) - Vascular leiomyoma
Maryland (National Naval Medical Center) - Angiomyoma (vascular leiomyoma) (12)
Maryland (University of Maryland Medical System) - Leiomyoma
Massachusetts (Berkshire Medical Center) - Fibroma
Massachusetts (Brigham and Women's Residents) - Angioleiomyoma
Massachusetts (New England Medical Center) - Angioleiomyoma
Michigan (Oakwood Hospital) - Angiomyoma
Michigan (St. Joseph Mercy Hospital) - Angioleiomyoma (4)
Missouri (Truman Medical Center Residents) - Leiomyoma, hyalinized
Nebraska (Creighton University School of Medicine) - Angiomyoma/vascular leiomyoma
New Jersey (Overlook Hospital) - Leiomyoma (3)
New York (DVAMC, Northport) - Leiomyoma
New York (Long Island Jewish Medical Center) - Vascular leiomyoma
New York (SUNY Stony Brook University Hospital) - Fibroma of tendon sheath
North Carolina (St. Joseph Hospital) - Leiomyoma (3); Angioleiomyoma (1)
Pennsylvania (Allegheny General Hospital) - Angioleiomyoma
Pennsylvania (Conemaugh Medical Center Residents) - Nodular fasciitis/leiomyoma
Pennsylvania (Lehigh Valley Hospital) - Angiomyoma
Pennsylvania (Mountain Area Pathology) - Leiomyoma (1); Angiomyoma (3)
Puerto Rico (University of Puerto Rico) - Rhabdomyoma
Texas (Propath Services) - Benign nodular leiomyoma (2)
West Virginia (Greenbrier Valley Medical Center) - Angiomyoma
Wisconsin (Meriter Health Services) - Angiomyofibroma
Wisconsin, Whitefish - Leiomyoma
Australia (North Queensland Pathology Group) - Desmoplastic fibroblastoma
Australia (Royal Prince Alfred Hospital) - Angiomyoma
Canada (CUSE, Site Fleurimont) - Fibroma of tendon sheath
Japan (Kawasaki Medical School) - Vascular leiomyoma (5)
Japan (Yamanashi Medical University) - Vascular leiomyoma (3)
Netherlands - Leiomyoma or nodular fasciitis

Case 10 - Diagnosis:

Angiomyoma (vascular leiomyoma), ankle

T-Y9500, M-88100

Case 10 - References:

Walling AK and Gasser SI. Soft-Tissue and Bone Tumors About the Foot and Ankle. *Clin Sports Med* 1994; 13(4):909-938.

Hachisuga T, Hashimoto H and Enjoji M. Angioleiomyoma. A Clinicopathologic Reappraisal of 562 Cases. *Cancer* 1984; 54(1):126-130.

Piers W, Terrono AL, et al. Angiomyoma (Vascular Leiomyoma) of the Median Nerve. *J Hand Surg* 1996; 21(2):285-286.

Kataoka M, Yano H, et al. Giant Vascular Leiomyoma in the Hand. *Scand J Plast Reconstr Surg Hand Surg* 1997; 31(1):91-93.

Hwang JW, Ahn JM, et al. Vascular Leiomyoma of an Extremity. MR Imaging-Pathology Correlation. *AJR Am J Roentgenol* 1998; 171(4):981-985.