



CALIFORNIA  
TUMOR TISSUE REGISTRY

“Soft Tissue Tumors”

Minutes – Subscription B

March, 2006



**SUGGESTED READING (General Topics from Recent Literature):**

Molecular Characterization Of Soft Tissue Tumours: A Gene Expression Study. Nielsen TO, West RB, Linn SC, et al. *The Lancet*, 2002 Apr; 359:1301-6.

The Genomic Basis Of Myocardial Infarction. Topol EJ. *JACC*, 2005 Oct 18; 46(8):1456-65.

Clinicopathological Features Of And Risk Factors For Multiple Primary Melanomas. Ferrone CR, Porat LB, Panageas KS, et al: *JAMA*, 2005 Oct 5; 294(13):1647-54.

Somatic Acquisition And Signaling Of TGFBR1\*6A In Cancer. Pasche B, Knobloch TJ, Bian Y, et al. *JAMA*, 2005 Oct 5; 294(13):1634-46.

Genetic Testing, Practical, Ethical, and Counseling Considerations. Ensenaer RE, Michels VV, Reinke SS. *Mayo Clin Proc*, 2005 Jan; 80(1):63-74.

Nineteen days after suffering a major heart attack and a fall, Dr. Weldon K. Bullock died at his new home at Linda Valley Villa (Loma Linda) on March 28, 2006. He was 98-years-young and will be deeply missed. Please say a prayer of thanksgiving for his wonderful and amazing life.

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## **FILE DIAGNOSES**

(Preferably submitted on website at [www.cttr.org](http://www.cttr.org). Click “subscriptions”, then “submit answers”.)

### **CTTR Subscription B**

**Case 1:**

**Calcifying fibrous pseudotumor, mediastinum (sclerosing mediastinitis)  
T-Y2300, M-45000**

**Case 2:**

**Inflammatory myofibroblastic tumor, omentum  
T-63850, M-76820**

**Case 3:**

**Ossifying fibromyxoid tumor, buttock  
T-Y1600, M-88900**

**Case 4:**

**Localized nodular tenosynovitis (lacking giant cells), thigh  
T-Y9100, M-47830**

**Case 5:**

**Pigmented villonodular synovitis (tenosynovial giant cell tumor, diffuse), ankle  
T-Y9500, M-47830**

**Case 6:**

**Neurofibroma, thigh  
T-Y9100, M-9540/0**

**Case 7:**

**Malignant peripheral nerve sheath tumor (MPNST), perispinal region  
T-X7410, M-95600**

**Case 8:**

**Monophasic synovial sarcoma, mediastinum  
T-Y2300, M-9040/3**

**Case 9:**

**Epithelioid leiomyosarcoma, recurrent from uterine primary, abdominal mass  
T-Y4100, M-8891/3**

**Case 10:**

**Angiosarcoma, leg  
T-Y9400, M-9120/3**

Escondido - Inflammatory pseudotumor  
Glendale - Calcifying fibrous pseudotumor  
Loma Linda University Medical Center Residents - Leiomyoma  
Orange (UCI Medical Center Residents) - Sclerosing mediastinitis  
Palo Alto Pathology - Calcifying fibrous pseudotumor  
San Francisco (San Francisco General Hospital) - Inflammatory pseudotumor  
Alabama (Cunningham Pathology) - Inflammatory pseudotumor  
Arkansas (University of Arkansas Medical Center) - Calcifying fibrous tumor, mediastinum  
Florida (Munroe Regional Medical Center) - Solitary fibrous tumor  
Florida (Winter Haven Hospital) - Calcifying fibrous tumor/pseudotumor  
Georgia, Decatur - Calcifying fibrous tumor  
Illinois (Heartland Regional Medical Center) - Calcifying fibrous pseudotumor  
Kansas (Coffeyville Regional Medical Center) - Inflammatory pseudotumor (plasma cell granuloma type)  
Kansas (Peterson Laboratory Services) - Calcifying fibrous pseudotumor  
Kentucky (University of Louisville Hospital) - Calcifying fibrous tumor  
Maryland (Johns Hopkins Hospital) - Sclerosing mediastinitis  
Maryland (National Naval Medical Center) - Calcifying fibrous pseudotumor (10), fibrosing mediastinitis (2)  
Maryland (University of Maryland) - Castleman's disease vs inflammatory myofibrous tumor  
Massachusetts (UMass Memorial Health Care) - Calcifying fibrous tumor  
Michigan (Henry Ford Hospital) - Sclerosing mediastinitis  
New York (Nassau University Medical Center) - Calcifying fibrous tumor  
New York (SUNY Downstate Residents) - Calcifying fibrous pseudotumor  
New York (Westchester Medical Center) - Calcifying fibrous tumor  
North Carolina (Womack Army Medical Center) - Sclerosing mediastinitis (4)  
Ohio (Medical University of Ohio) - Calcifying fibrous pseudotumor  
Pennsylvania (Conemaugh Memorial Medical Center) - Sclerosing mediastinitis  
Texas (Baylor College of Medicine) - Inflammatory myofibroblastic tumor  
Texas (Scott & White Hospital) - Sclerosing mediastinitis  
Texas, Crystal Beach - Sclerosing mediastinitis  
Texas, Lubbock - Plasmacytoma  
Texas, San Antonio - Idiopathic fibrosclerosing lesion  
West Virginia (Wetzel County Hospital) - Fibrosing mediastinitis, probably histoplasmosis  
Wisconsin, Marshfield - Sclerosing mediastinitis  
Australia (Sullivan Nicolaides Pathology) - Calcifying fibrous pseudotumor  
Canada (Pasqua Hospital) - Calcifying fibrous pseudotumor  
China (Sir Run Run Shaw Hospital) - Calcifying fibrous tumor  
Japan (Hamamatsu University School of Medicine) - Inflammatory pseudotumor, plasma cell granuloma type  
Japan (Gunma University Hospital) - Sclerosing mediastinitis  
Japan, Chiba - Calcifying fibrous pseudotumor  
Puerto Rico (University of Puerto Rico) - Chronic fibrosing mediastinitis/Mediastinic fibromatosis  
Qatar (Hamad Medical Corporation) - Sclerosing mediastinitis  
Spain (Povisa) - Sclerosing mediastinitis (vs. calcifying fibrous tumor)

**Case 1 - Diagnosis:**

**Calcifying fibrous pseudotumor, mediastinum (sclerosing mediastinitis)**

**T-Y2300, M-45000**

**Outside Consultation:** AFIP: Calcifying Fibrous Pseudotumor.

**Case 1 - References:**

- Flieder DB, Suster S, Moran CA: Idiopathic Fibroinflammatory (Fibrosing/Sclerosing) Lesions Of The Mediastinum: A Study Of 30 Cases With Emphasis On Morphologic Heterogeneity. *Mod Pathol*, 1999 Mar; 12(3):257-64.  
 Mole TM, Glover J, Sheppard MN: Sclerosing Mediastinitis: A Report On 18 Cases. *Thorax*, 1995 Mar; 50(3):280-3.  
 Dehner LP, Coffin CM: Idiopathic Fibrosclerotic Disorders And Other Inflammatory Pseudotumors. *Semin Diagn Pathol*, 1998 May; 15(2):161-73. Review.  
 Kovach TA, Nanda NC, Kim KS, et al: Transesophageal Echocardiographic Findings In Sclerosing Mediastinitis. *Echocardiography*, 1996 Jan; 13(1):103-8.  
 Crotty TB, Colby TV, Gay PC, Pisani RJ: Desmoplastic Malignant Mesothelioma Masquerading As Sclerosing Mediastinitis: A Diagnostic Dilemma. *Hum Pathol*, 1992 Jan; 23(1):79-82.

Escondido - Inflammatory pseudotumor  
Glendale - Inflammatory myofibroblastic tumor  
Loma Linda University Medical Center Residents - Anaplastic large cell lymphoma  
Orange (UCI Medical Center Residents) - Inflammatory myofibroblastic tumor  
Palo Alto Pathology - Myofibroblastic inflammatory pseudotumor; DD: Anaplastic large cell lymphoma  
San Francisco (San Francisco General Hospital) - Proliferative fasciitis  
Alabama (Cunningham Pathology) - Inflammatory myofibroblastic tumor  
Arkansas (University of Arkansas Medical Center) - Inflammatory myofibroblastic tumor, omentum  
Florida (Munroe Regional Medical Center) - Anaplastic large cell lymphoma  
Florida (Winter Haven Hospital) - Inflammatory myofibroblastic tumor  
Georgia, Decatur - Inflammatory myofibroblastic tumor  
Illinois (Heartland Regional Medical Center) - Inflammatory myofibroblastic tumor  
Kansas (Coffeyville Regional Medical Center) - Myxoid fetal rhabdomyoma  
Kansas (Peterson Laboratory Services) - Inflammatory pseudotumor  
Kentucky (University of Louisville Hospital) - Inflammatory myofibroblastic tumor  
Maryland (Johns Hopkins Hospital) - Inflammatory myofibroblastic tumor  
Maryland (National Naval Medical Center) - Inflammatory myofibroblastic tumor  
Maryland (University of Maryland) - Inflammatory myofibroblastic tumor  
Massachusetts (UMass Memorial Health Care) - Inflammatory myofibroblastic tumor  
Michigan (Henry Ford Hospital) - Inflammatory myofibroblastic tumor  
New York (Nassau University Medical Center) - Inflammatory myofibroblastic tumor  
New York (SUNY Downstate Residents) - Inflammatory myofibroblastic tumor  
New York (Westchester Medical Center) - Inflammatory myofibroblastic tumor  
North Carolina (Womack Army Medical Center) - Inflammatory myofibroblastic tumor (4)  
Ohio (Medical University of Ohio) - Inflammatory myofibroblastic tumor  
Pennsylvania (Conemaugh Memorial Medical Center) - Inflammatory myofibroblastic tumor  
Texas (Baylor College of Medicine) - Inflammatory myofibroblastic tumor  
Texas (Scott & White Hospital) - Inflammatory myofibroblastic tumor  
Texas, Crystal Beach - Pseudotumor, abdomen  
Texas, Lubbock - Anaplastic large cell lymphoma  
Texas, San Antonio - Inflammatory myofibroblastic tumor  
West Virginia (Wetzel County Hospital) - Inflammatory myofibroblastic tumor  
Wisconsin, Marshfield - Inflammatory myofibroblastic tumor  
Australia (Sullivan Nicolaides Pathology) - Inflammatory myofibroblastic tumor  
Canada (Pasqua Hospital) - Inflammatory myofibroblastic tumor  
China (Sir Run Run Shaw Hospital) - Inflammatory myofibroblastic tumor  
Japan (Hamamatsu University School of Medicine) - Inflammatory myofibroblastic tumor  
Japan (Gunma University Hospital) - Inflammatory myofibroblastic tumor  
Japan, Chiba - Inflammatory myofibroblastic tumor  
Puerto Rico (University of Puerto Rico) - Inflammatory myofibroblastic tumor  
Qatar (Hamad Medical Corporation) - Inflammatory myofibroblastic tumor  
Spain (Povisa) - Inflammatory myofibroblastic tumor

**Case 2 - Diagnosis:****Inflammatory myofibroblastic tumor, omentum****T-63850, M-76820****Case 2 - References:**

- Yang AH, Chen JY, Lin JK: Myofibroblastic Conversion Of Mesothelial Cells. *Kidney Int*, 2003 Apr; 63(4):1530-9.  
 Cessna MH, Zhou H, Sanger WG, et al: Expression Of ALK1 And p80 In Inflammatory Myofibroblastic Tumor And Its Mesenchymal Mimics: A Study Of 135 Cases. *Mod Pathol*, 2002 Sep; 15(9):931-8.  
 Eyden B: Electron Microscopy In The Study Of Myofibroblastic Lesions. *Semin Diagn Pathol*, 2003 Feb; 20(1):13-24. Review.  
 Yamamoto H, Oda Y, Saito T, et al: p53 Mutation And MDM2 Amplification In Inflammatory Myofibroblastic Tumours. *Histopathology*, 2003 May; 42(5):431-9.  
 Gomez-Roman JJ, Ocejio-Vinyals G, Sanchez-Velasco P, et al: Presence Of Human Herpesvirus-8 DNA Sequences And Overexpression Of Human IL-6 And Cyclin D1 In Inflammatory Myofibroblastic Tumor (Inflammatory Pseudotumor). *Lab Invest*, 2000 Jul; 80(7):1121-6.

Escondido - Chondrosarcoma  
Glendale - Ossifying fibromyxoid tumor  
Loma Linda University Medical Center Residents - Myositis ossificans  
Orange (UCI Medical Center Residents) - Low-grade fibromyxoid sarcoma  
Palo Alto Pathology - Myxochondroma  
San Francisco (San Francisco General Hospital) - Soft tissue chondroma  
Alabama (Cunningham Pathology) - Low-grade chondrosarcoma  
Arkansas (University of Arkansas Medical Center) - Myxoid hemangiopericytoma/SFT with metaplastic ossification, buttocks  
Florida (Munroe Regional Medical Center) - Extraskelatal chondrosarcoma  
Florida (Winter Haven Hospital) - Fibrochondroma  
Georgia, Decatur - Calcifying aponeurotic fibroma  
Illinois (Heartland Regional Medical Center) - Fibrochondroma  
Kansas (Coffeyville Regional Medical Center) - Fibromyxoid chondroma  
Kansas (Peterson Laboratory Services) - Myositis ossificans  
Kentucky (University of Louisville Hospital) - Myxoid chondrosarcoma vs malignant chondromyxoid fibroma  
Maryland (Johns Hopkins Hospital) - Low-grade fibromyxoid sarcoma (Evan's tumor)  
Maryland (National Naval Medical Center) - Chondroma of soft parts (8)  
Maryland (University of Maryland) - Extraskelatal low-grade chondrosarcoma  
Massachusetts (UMass Memorial Health Care) - Liposarcoma with chondroid and osseous differentiation  
Michigan (Henry Ford Hospital) - Chondrosarcoma  
New York (Nassau University Medical Center) - Desmoplastic fibroblastoma  
New York (SUNY Downstate Residents) - Low-grade fibromyxoid sarcoma, nerve sheath tumor  
New York (Westchester Medical Center) - Soft tissue chondroma  
North Carolina (Womack Army Medical Center) - Low-grade chondrosarcoma (4)  
Ohio (Medical University of Ohio) - Atypical ossifying fibromyxoid tumor  
Pennsylvania (Conemaugh Memorial Medical Center) - Reactive chondromatosis proliferation  
Texas (Baylor College of Medicine) - Malignant peripheral nerve sheath tumor, low-grade  
Texas (Scott & White Hospital) - Fibrochondroma  
Texas, Crystal Beach - Myositis ossificans (most probable)  
Texas, Lubbock - Chondrosarcoma  
Texas, San Antonio - Chondroma  
West Virginia (Wetzel County Hospital) - Soft tissue chondroma  
Wisconsin, Marshfield - Malignant peripheral nerve sheath tumor  
Australia (Sullivan Nicolaides Pathology) - Myositis ossificans  
Canada (Pasqua Hospital) - Ossifying fibromyxoid tumor  
China (Sir Run Run Shaw Hospital) - Chondromyxoid fibroma  
Japan (Hamamatsu University School of Medicine) - Soft tissue chondroma  
Japan (Gunma University Hospital) - Malignant peripheral nerve sheath tumor  
Japan, Chiba - Extraskelatal osteochondroma  
Puerto Rico (University of Puerto Rico) - Extraskelatal chondroma  
Qatar (Hamad Medical Corporation) - Low-grade chondrosarcoma  
Spain (Povisa) - Ossifying fibromyxoid tumor

**CASE 3 - Diagnosis:**

**Ossifying fibromyxoid tumor, buttock**  
**T-Y1600, M-88900**

**Case 3 - References:**

- Holck S, Pedersen JG, Ackermann T, Daugaard S: Ossifying Fibromyxoid Tumour Of Soft Parts, With Focus On Unusual Clinicopathological Features. *Histopathology*, 2003 Jun; 42(6):599-604.
- Barrett TL, Skelton HG, Smith KJ, et al: Ossifying Fibromyxoid Tumor Of Soft Parts: A Case Report And Review. *J Cutan Pathol*, 1996 Aug; 23(4):378-80. Review.
- White WL: Self Assessment – 1993. Non-Ossifying Variant Of Ossifying Fibromyxoid Tumors Of Soft Parts. *J Cutan Pathol*, 1994 Dec; 21(6):571-3.
- Enzinger FM, Weiss SW, Liang CY: Ossifying Fibromyxoid Tumor Of Soft Parts. A Clinicopathological Analysis Of 59 Cases. *Am J Surg Pathol*, 1989 Oct; 13(10):817-27.
- Nishio J, Iwasaki H, Ohjimi Y, et al: Ossifying Fibromyxoid Tumor Of Soft Parts. Cytogenetic Findings. *Cancer Genet Cytogenet*, 2002 Mar; 133(2):124-8.

Escondido - Synovial sarcoma  
Glendale - Fibroma of tendon sheath  
Loma Linda University Medical Center Residents - Fibroma of tendon sheath  
Orange (UCI Medical Center Residents) - Fibroma of tendon sheath  
Palo Alto Pathology - Ossifying fibromyxoid tumor of soft tissue  
San Francisco (San Francisco General Hospital) - Chondrosarcoma, Grade II  
Alabama (Cunningham Pathology) - Ossifying fibromyxoid tumor of soft tissue  
Arkansas (University of Arkansas Medical Center) - Sclerosing epithelioid fibrosarcoma, knee  
Florida (Munroe Regional Medical Center) - Fibroma  
Florida (Winter Haven Hospital) - Synovial chondromatosis  
Georgia, Decatur - Ossifying fibromyxoid tumor, rule out low grade sarcoma  
Illinois (Heartland Regional Medical Center) - Collagenous fibroma  
Kansas (Coffeyville Regional Medical Center) - Ossifying fibromyxoid chondroma  
Kansas (Peterson Laboratory Services) - Proliferative synovitis  
Kentucky (University of Louisville Hospital) - Ossifying fibromyxoid tumor of soft tissue  
Maryland (Johns Hopkins Hospital) - Low-grade neoplasm, unusually large fibroma of tendon sheath vs calcifying aponeurotic fibroma vs perineurioma  
Maryland (National Naval Medical Center) - Sclerosing epithelial fibrosarcoma (5); Ossifying fibromyxoid tumor (2); Sarcoma, NOS (1); Low-grade fibromyxoid sarcoma (1)  
Maryland (University of Maryland) - Schwannoma  
Massachusetts (UMass Memorial Health Care) - Fibrosarcoma, low grade  
Michigan (Henry Ford Hospital) - Leiomyomatosis with clear cell change  
New York (Nassau University Medical Center) - Ossifying fibromyxoid tumor  
New York (SUNY Downstate Residents) - Extra-axial chondromyxoid fibroma  
New York (Westchester Medical Center) - Ossifying fibromyxoid tumor  
North Carolina (Womack Army Medical Center) - Benign hyalinizing tumor (4)  
Ohio (Medical University of Ohio) - Juvenile hyaline fibromatosis  
Pennsylvania (Conemaugh Memorial Medical Center) - Epithelioid leiomyoma  
Texas (Baylor College of Medicine) - Sclerosing epithelioid fibrosarcoma  
Texas (Scott & White Hospital) - Ossifying fibromyxoid tumor  
Texas, Crystal Beach - Necrotizing carcinoma, probably metastatic  
Texas, Lubbock - Sclerosing liposarcoma  
Texas, San Antonio - Ossifying fibromyxoid tumor  
West Virginia (Wetzel County Hospital) - Synovial chondromatosis  
Wisconsin, Marshfield - Leiomyoma  
Australia (Sullivan Nicolaides Pathology) - Ossifying fibromyxoid tumour  
Canada (Pasqua Hospital) - Ossifying fibromyxoid tumor  
Japan (Hamamatsu University School of Medicine) - Synovial chondromatosis  
Japan (Gunma University Hospital) - Ossifying fibromyxoid tumor  
Japan, Chiba - Schwannoma with degenerative changes  
Puerto Rico (University of Puerto Rico) - Fibroma, collagenous  
Qatar (Hamad Medical Corporation) - Solitary fibrous tumor  
Spain (Povisa) - Fibroma of tendon sheath

**Case 4 - Diagnosis:**

**Localized nodular tenosynovitis (lacking giant cells), thigh**  
**T-Y9100, M-47830**

**Director's note:** There is a continuous gradient in the numbers of giant cells in this entity. . . this one has none. Please note the deep "clefting" that helps identify this as arising in tenosynovial tissue. (drc)

**Case 4 - References:**

Oliveira AM, Dei Tos AP, Fletcher CD, Nascimento AG: Primary Giant Cell Tumor Of Soft Tissues: A Study Of 22 Cases. *Am J Surg Pathol*, 2000 Feb; 24(2):248-56.  
 Rodriguez-Peralto JL, Lopez-Barea F, Fernandez-Delgado J: Primary Giant Cell Tumor Of Soft Tissues Similar To Bone Giant Cell Tumor: A Case Report And Literature Review. *Pathol Int*, 2001 Jan; 51(1):60-3. Review.  
 Folpe AL, Morris RJ, Weiss SW: Soft Tissue Giant Cell Tumor Of Low Malignant Potential: A Proposal For The Reclassification Of Malignant Giant Cell Tumor Of Soft Parts. *Mod Pathol*, 1999 Sep; 12(9):894-902.

Escondido - Pigmented villonodular synovitis  
Glendale - Pigmented villonodular synovitis  
Loma Linda University Medical Center Residents - Pigmented villonodular synovitis  
Orange (UCI Medical Center Residents) - Pigmented villonodular synovitis  
Palo Alto Pathology - Giant cell tumor of tendon sheath  
San Francisco (San Francisco General Hospital) - Pigmented villonodular synovitis  
Alabama (Cunningham Pathology) - Pigmented villonodular tenosynovitis  
Arkansas (University of Arkansas Medical Center) - Diffuse type giant cell tumor, ankle  
Florida (Munroe Regional Medical Center) - Pigmented villonodular synovitis  
Florida (Winter Haven Hospital) - Nodular tenosynovitis  
Georgia, Decatur - Tenosynovial giant cell tumor, diffuse type  
Illinois (Heartland Regional Medical Center) - Tenosynovial giant cell tumor, localized type  
Kansas (Coffeyville Regional Medical Center) - Pigmented giant cell tumor of tendon sheath  
Kansas (Peterson Laboratory Services) - Pigmented villonodular synovitis  
Kentucky (University of Louisville Hospital) - Giant cell tumor/PVNS  
Maryland (Johns Hopkins Hospital) - Pigmented villonodular synovitis  
Maryland (National Naval Medical Center) - Giant cell tumor, diffuse type  
Maryland (University of Maryland) - Giant cell tumor of tendon sheath  
Massachusetts (UMass Memorial Health Care) - Pigmented villonodular synovitis  
Michigan (Henry Ford Hospital) - Nodular tenosynovitis/tenosynovial giant cell tumor  
New York (Nassau University Medical Center) - Pigmented villonodular synovitis  
New York (SUNY Downstate Residents) - Pigmented villonodular synovitis  
New York (Westchester Medical Center) - Giant cell tumor of tendon sheath, diffuse  
North Carolina (Womack Army Medical Center) - Diffuse tenosynovial giant cell tumor (4)  
Ohio (Medical University of Ohio) - Pigmented villonodular synovitis/giant cell tumor of tendon sheath  
Pennsylvania (Conemaugh Memorial Medical Center) - Pigmented villonodular synovitis  
Texas (Baylor College of Medicine) - Pigmented villonodular synovitis  
Texas (Scott & White Hospital) - Pigmented villonodular synovitis  
Texas, Crystal Beach - Villonodular synovitis  
Texas, Lubbock - Pigmented villonodular synovitis  
Texas, San Antonio - PVNS (pigmented villonodular synovitis)  
West Virginia (Wetzel County Hospital) - Villonodular tenosynovitis  
Wisconsin, Marshfield - Tenosynovial giant cell tumor  
Australia (Sullivan Nicolaides Pathology) - Tenosynovial giant cell tumor  
Canada (Pasqua Hospital) - Tenosynovial giant cell tumor, diffuse type  
China (Sir Run Run Shaw Hospital) - Tenosynovial giant cell tumor  
Japan (Hamamatsu University School of Medicine) - Pigmented villonodular synovitis  
Japan (Gunma University Hospital) - Pigmented villonodular synovitis  
Japan, Chiba - Tenosynovial giant cell tumor  
Puerto Rico (University of Puerto Rico) - Pigmented villonodular synovitis  
Qatar (Hamad Medical Corporation) - Pigmented villonodular synovitis  
Spain (Povisa) - Pigmented villonodular synovitis

**Case 5 - Diagnosis:**

**Pigmented villonodular synovitis (tenosynovial giant cell tumor, diffuse), ankle**  
**T-Y9500, M-47830**

**Case 5 - References:**

- Roth I, Frisch DR, Mercado OA: Nodular Pigmented Villonodular Tenosynovitis. *J Foot Surg*, 1985; Jan-Feb; 24(1):51-3.  
 Rochwerger A, Groulier P, Curvale G, Launay F: Pigmented Villonodular Synovitis Of The Foot And Ankle: A Report Of Eight Cases. *Foot Ankle Int*, 1999 Sep; 20(9):587-90.  
 Bhimani MA, Wenz JF, Frassica FJ: Pigmented Villonodular Synovitis: Keys To Early Diagnosis. *Clin Orthop*, 2001 May; (386):197-202.  
 Ushijima M, Hashimoto H, Tsuneyoshi M, Enjoji M: Giant Cell Tumor Of The Tendon Sheath (Nodular Tenosynovitis). A Study Of 207 Cases To Compare The Large Joint Group With The Common Digit Group. *Cancer*, 1986 Feb 15; 57(4):875-84.  
 Gonzalez-Campora R, Salas Herrero E, Otal-Salaverri C, et al: Diffuse Tenosynovial Giant Cell Tumor Of Soft Tissues. Report Of A Case With Cytologic And Cytogenetic Findings. *Acta Cytol*, 1995 Jul-Aug; 39(4):770-6.  
 Mackie GC: Pigmented Villonodular Synovitis And Giant Cell Tumor Of The Tendon Sheath: Scintigraphic Findings In 10 Cases. *Clin Nucl Med*, 2003 Nov; 28(11):881-5.

Escondido - Myxoma  
Glendale - Neurofibroma  
Loma Linda University Medical Center Residents - Fibromatosis  
Orange (UCI Medical Center Residents) - Plexiform neurofibroma  
Palo Alto Pathology - Schwannoma vs neurofibroma  
San Francisco (San Francisco General Hospital) - Neurofibroma  
Alabama (Cunningham Pathology) - Neurofibroma with atypical features  
Arkansas (University of Arkansas Medical Center) - Neurofibroma, thigh  
Florida (Munroe Regional Medical Center) - Neurofibroma  
Florida (Winter Haven Hospital) - Neurofibroma  
Georgia, Decatur - Fetal rhabdomyoma  
Illinois (Heartland Regional Medical Center) - Benign peripheral nerve sheath tumor  
Kansas (Coffeyville Regional Medical Center) - Adult rhabdomyoma  
Kansas (Peterson Laboratory Services) - Neurofibroma  
Kentucky (University of Louisville Hospital) - Neurofibroma  
Maryland (Johns Hopkins Hospital) - Neurofibroma  
Maryland (National Naval Medical Center) - Neurofibroma  
Maryland (University of Maryland) - Neurofibroma  
Massachusetts (UMass Memorial Health Care) - Neurofibroma  
Michigan (Henry Ford Hospital) - Intramuscular myxoma  
New York (Nassau University Medical Center) - Neurofibroma  
New York (SUNY Downstate Residents) - Keloidal neurofibroma  
New York (Westchester Medical Center) - Neurofibroma  
North Carolina (Womack Army Medical Center) - Neurofibroma (4)  
Ohio (Medical University of Ohio) - Neurofibroma  
Pennsylvania (Conemaugh Memorial Medical Center) - Desmoid fibromatosis  
Texas (Baylor College of Medicine) - Neurofibroma  
Texas (Scott & White Hospital) - Neurofibroma  
Texas, Crystal Beach - Fibromatosis with keloid-like features (fibroelastic tissue)  
Texas, Lubbock - Neurofibroma  
Texas, San Antonio - Neurofibroma  
West Virginia (Wetzel County Hospital) - Neurofibroma with dense collagen bundles  
Wisconsin, Marshfield - Neurofibroma  
Australia (Sullivan Nicolaides Pathology) - Neurofibroma  
Canada (Pasqua Hospital) - Neurofibroma  
China (Sir Run Run Shaw Hospital) - Neurofibroma  
Japan (Hamamatsu University School of Medicine) - Neurofibroma  
Japan (Gunma University Hospital) - Neurofibroma  
Japan, Chiba - Neurofibroma  
Puerto Rico (University of Puerto Rico) - Neurofibroma  
Qatar (Hamad Medical Corporation) - Neurofibroma  
Spain (Povisa) - Low-grade angiosarcoma

**Case 6 - Diagnosis:****Neurofibroma, thigh****T-Y9100, M-9540/0****Case 6 - References:**

- Woodruff JM: Pathology Of Tumors Of The Peripheral Nerve Sheath In Type 1 Neurofibromatosis. *Am J Med Genet*, 1999 Mar 26; 89(1):23-30. Review.
- Feany MB, Anthony DC, Fletcher CD: Nerve Sheath Tumours With Hybrid Features Of Neurofibroma And Schwannoma: A Conceptual Challenge. *Histopathology*, 1998 May; 32(5):405-10.
- Koga T, Iwasaki H, Ishiguro M, et al: Frequent Genomic Imbalances In Chromosomes 17, 19, And 22q In Peripheral Nerve Sheath Tumours Detected By Comparative Genomic Hybridization Analysis. *J Pathol*, 2002 May; 197(1):98-107.
- Arun D, Gutmann DH. Recent Advances In Neurofibromatosis Type 1. *Curr Opin Neurol*, 2004 Apr; 17(2):101-105.



Escondido - Malignant peripheral nerve sheath tumor  
Glendale - Malignant peripheral nerve sheath tumor  
Loma Linda University Medical Center Residents - Chordoma  
Orange (UCI Medical Center Residents) - Malignant peripheral nerve sheath tumor  
Palo Alto Pathology - Malignant peripheral nerve sheath tumor  
San Francisco (San Francisco General Hospital) - Malignant peripheral nerve sheath tumor  
Alabama (Cunningham Pathology) - Malignant peripheral nerve sheath tumor  
Arkansas (University of Arkansas Medical Center) - Malignant peripheral nerve sheath tumor, perispinal  
Florida (Munroe Regional Medical Center) - Malignant peripheral nerve sheath tumor  
Florida (Winter Haven Hospital) - Malignant schwannoma  
Georgia, Decatur - Malignant peripheral nerve sheath tumor  
Illinois (Heartland Regional Medical Center) - Malignant peripheral nerve sheath tumor  
Kansas (Coffeyville Regional Medical Center) - Malignant peripheral nerve sheath tumor  
Kansas (Peterson Laboratory Services) - Malignant peripheral nerve sheath tumor  
Kentucky (University of Louisville Hospital) - Malignant peripheral nerve sheath tumor  
Maryland (Johns Hopkins Hospital) - Malignant peripheral nerve sheath tumor  
Maryland (National Naval Medical Center) - Schwannoma (8); Malignant peripheral nerve sheath tumor (3)  
Maryland (University of Maryland) - Malignant peripheral nerve sheath tumor  
Massachusetts (UMass Memorial Health Care) - Malignant peripheral nerve sheath tumor  
Michigan (Henry Ford Hospital) - Malignant peripheral nerve sheath tumor  
New York (Nassau University Medical Center) - Malignant peripheral nerve sheath tumor  
New York (SUNY Downstate Residents) - Malignant nerve sheath tumor  
New York (Westchester Medical Center) - Malignant peripheral nerve sheath tumor  
North Carolina (Womack Army Medical Center) - Malignant peripheral nerve sheath tumor (4)  
Ohio (Medical University of Ohio) - Malignant peripheral nerve sheath tumor  
Pennsylvania (Conemaugh Memorial Medical Center) - Malignant peripheral nerve sheath tumor  
Texas (Baylor College of Medicine) - Malignant peripheral nerve sheath tumor, high-grade  
Texas (Scott & White Hospital) - MPNST  
Texas, Crystal Beach - Neurofibrosarcoma (malignant schwannoma)  
Texas, Lubbock - Malignant neurilemmoma  
Texas, San Antonio - MPNST  
West Virginia (Wetzel County Hospital) - Malignant peripheral nerve tumor  
Wisconsin, Marshfield - Malignant peripheral nerve sheath tumor  
Australia (Sullivan Nicolaides Pathology) - Malignant peripheral nerve sheath tumour  
Canada (Pasqua Hospital) - Malignant peripheral nerve sheath tumor  
China (Sir Run Run Shaw Hospital) - Malignant peripheral nerve sheath tumor  
Japan (Hamamatsu University School of Medicine) - Malignant peripheral nerve sheath tumor  
Japan (Gunma University Hospital) - Malignant peripheral nerve sheath tumor  
Japan, Chiba - Malignant peripheral nerve sheath tumor  
Puerto Rico (University of Puerto Rico) - Malignant peripheral nerve sheath tumor  
Qatar (Hamad Medical Corporation) - MPNST  
Spain (Povisa) - Malignant peripheral nerve sheath tumor

**Case 7 - Diagnosis:**

**Malignant peripheral nerve sheath tumor (MPNST), perispinal region**  
**T-X7410, M-95600**

**Case 7 - References:**

Schwarz J, Belzberg AJ: Malignant Peripheral Nerve Sheath Tumors In The Setting Of Segmental Neurofibromatosis. Case Report. *J Neurosurg*, 2000 Feb; 92(2):342-6.  
 Ramanathan RC, Thomas JM: Malignant Peripheral Nerve Sheath Tumours Associated With Von Recklinghausen's Neurofibromatosis. *Eur J Surg Oncol*, 1999 Apr; 25(2):190-3.  
 Conti P, Pansini G, Mouchaty H, et al: Spinal Neurinomas: Retrospective Analysis And Long-Term Outcome Of 179 Consecutively Operated Cases And Review Of The Literature. *Surg Neurol*, 2004 Jan; 61(1):34-43. Discussion 44. Review.  
 Riccardi VM: Neurofibromatosis: Past, Present And Future. *N Engl J Med*, 1991; 324:1283.

Escondido - Synovial sarcoma  
Glendale - Synovial sarcoma  
Loma Linda University Medical Center Residents - Thymic carcinoma  
Orange (UCI Medical Center Residents) - Synovial sarcoma  
Palo Alto Pathology - Synovial sarcoma  
San Francisco (San Francisco General Hospital) - Monophasic synovial sarcoma  
Alabama (Cunningham Pathology) - Synovial sarcoma  
Arkansas (University of Arkansas Medical Center) - Synovial sarcoma, mediastinum  
Florida (Munroe Regional Medical Center) - Malignant thymoma  
Florida (Winter Haven Hospital) - Synovial sarcoma  
Georgia, Decatur - Monophasic synovial sarcoma  
Illinois (Heartland Regional Medical Center) - Synovial sarcoma, monophasic  
Kansas (Coffeyville Regional Medical Center) - Fibrosarcoma vs synovial sarcoma vs mesothelioma  
Kansas (Peterson Laboratory Services) - Synovial sarcoma  
Kentucky (University of Louisville Hospital) - Monophasic synovial sarcoma  
Maryland (Johns Hopkins Hospital) - Synovial sarcoma, monophasic  
Maryland (National Naval Medical Center) - Synovial sarcoma  
Maryland (University of Maryland) - Malignant spindle cell mesothelioma  
Massachusetts (UMass Memorial Health Care) - Synovial sarcoma  
Michigan (Henry Ford Hospital) - Monophasic synovial sarcoma  
New York (Nassau University Medical Center) - Synovial sarcoma  
New York (SUNY Downstate Residents) - Sarcomatoid mesothelioma  
New York (Westchester Medical Center) - Synovial sarcoma  
North Carolina (Womack Army Medical Center) - Synovial sarcoma (4)  
Ohio (Medical University of Ohio) - Monophasic synovial sarcoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Spindle cell thymoma  
Texas (Baylor College of Medicine) - Synovial sarcoma  
Texas (Scott & White Hospital) - Monophasic synovial sarcoma  
Texas, Crystal Beach - Sarcomatous mesothelioma  
Texas, Lubbock - Monophasic synovial sarcoma  
Texas, San Antonio - Synovial sarcoma  
West Virginia (Wetzel County Hospital) - Mesothelioma, fibrous type  
Wisconsin, Marshfield - Synovial sarcoma  
Australia (Sullivan Nicolaides Pathology) - Synovial sarcoma (monophasic)  
Canada (Pasqua Hospital) - Synovial sarcoma  
China (Sir Run Run Shaw Hospital) - Monophasic synovial sarcoma  
Japan (Hamamatsu University School of Medicine) - Synovial sarcoma  
Japan (Gunma University Hospital) - Monophasic synovial sarcoma  
Japan, Chiba - Sarcomatoid mesothelioma  
Puerto Rico (University of Puerto Rico) - Synovial sarcoma, monophasic  
Qatar (Hamad Medical Corporation) - Monophasic synovial sarcoma  
Spain (Povisa) - Synovial sarcoma

**Case 8 - Diagnosis:****Monophasic synovial sarcoma, mediastinum****T-Y2300, M-9040/3****Case 8 - References:**

- Ewing CA, Zakowski MF, Lin O: Monophasic Synovial Sarcoma: A Cytologic Spectrum. *Diagn Cytopathol*, 2004 Jan; 30(1):19-23.
- Lopes JM, Bjerkehaugen B, Sobrinho-Simoes M, Nesland JM: The Ultrastructural Spectrum Of Synovial Sarcomas: A Study Of The Epithelial Type Differentiation Of Primary Tumors, Recurrences, And Metastases. *Ultrastructural Pathol*, 1993 Mar-Apr; 17(2):137-51.
- Ewing CA, Zakowski MF, Lin O: Monophasic Synovial Sarcoma: A Cytologic Spectrum. *Diagn Cytopathol*, 2004 Jan; 30(1):19-23.
- Coindre JM, Pelmus M, Hostein I, et al: Should Molecular Testing Be Required For Diagnosing Synovial Sarcoma? A Prospective Study Of 204 Cases. *Cancer*, 2003 Dec 15; 98(12):2700-7.
- Okamoto S, Ishida T, Ohnishi H, et al: Synovial Sarcomas Of Three Children In The First Decade: Clinicopathological And Molecular Findings. *Pathol Int*, 2000 Oct; 50(10):818-23.

Escondido - Leiomyosarcoma  
Glendale - Epithelioid leiomyosarcoma  
Loma Linda University Medical Center Residents - Leiomyosarcoma  
Orange (UCI Medical Center Residents) - Recurrent, high-grade leiomyosarcoma  
Palo Alto Pathology - Sarcoma (leiomyosarcoma vs rhabdomyosarcoma; do IPO for myogen)  
San Francisco (San Francisco General Hospital) - Leiomyosarcoma  
Alabama (Cunningham Pathology) - Leiomyosarcoma  
Arkansas (University of Arkansas Medical Center) - Metastatic epithelioid leiomyosarcoma, abdomen  
Florida (Munroe Regional Medical Center) - Leiomyosarcoma  
Florida (Winter Haven Hospital) - Leiomyosarcoma  
Georgia, Decatur - Leiomyosarcoma  
Illinois (Heartland Regional Medical Center) - Leiomyosarcoma, metastatic  
Kansas (Coffeyville Regional Medical Center) - Leiomyosarcoma  
Kansas (Peterson Laboratory Services) - Epithelioid leiomyosarcoma  
Kentucky (University of Louisville Hospital) - Leiomyosarcoma  
Maryland (Johns Hopkins Hospital) - Leiomyosarcoma, high-grade  
Maryland (National Naval Medical Center) - Leiomyosarcoma  
Maryland (University of Maryland) - Leiomyosarcoma  
Massachusetts (UMass Memorial Health Care) - Leiomyosarcoma  
Michigan (Henry Ford Hospital) - Leiomyosarcoma  
New York (Nassau University Medical Center) - Leiomyosarcoma  
New York (SUNY Downstate Residents) - Leiomyosarcoma, high-grade  
New York (Westchester Medical Center) - Leiomyosarcoma  
North Carolina (Womack Army Medical Center) - Leiomyosarcoma (4)  
Ohio (Medical University of Ohio) - Leiomyosarcoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Epithelioid leiomyosarcoma  
Texas (Baylor College of Medicine) - Leiomyosarcoma  
Texas (Scott & White Hospital) - Leiomyosarcoma  
Texas, Crystal Beach - Leiomyosarcoma  
Texas, Lubbock - Leiomyosarcoma  
Texas, San Antonio - Leiomyosarcoma, recurrent  
West Virginia (Wetzel County Hospital) - Metastatic leiomyosarcoma  
Wisconsin, Marshfield - Leiomyosarcoma  
Australia (Sullivan Nicolaides Pathology) - Epithelioid leiomyosarcoma  
Canada (Pasqua Hospital) - Leiomyosarcoma  
China (Sir Run Run Shaw Hospital) - Leiomyosarcoma  
Japan (Hamamatsu University School of Medicine) - Leiomyosarcoma  
Japan (Gunma University Hospital) - Leiomyosarcoma  
Japan, Chiba - Leiomyosarcoma  
Puerto Rico (University of Puerto Rico) - Leiomyosarcoma  
Qatar (Hamad Medical Corporation) - Leiomyosarcoma  
Spain (Povisa) - Leiomyosarcoma

**Case 9 - Diagnosis:**

**Epithelioid leiomyosarcoma, recurrent from uterine primary, abdominal mass**  
**T-Y4100, M-8891/3**

**Case 9 - References:**

- Klijanienko J, Caillaud JM, Lagace R, Vielh P: Fine-Needle Aspiration Of Leiomyosarcoma: A Correlative Cytohistopathological Study of 96 Tumors In 68 Patients. *Diagn Cytopathol*, 2003 Mar; 28(3):119-25.  
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 Dinh TA, Oliva EA, Fuller AF Jr, et al: The Treatment Of Uterine Leiomyosarcoma. Results From A 10-Year Experience (1990-1999) At The Massachusetts General Hospital. *Gynecol Oncol*, 2004 Feb; 92(2):648-52.  
 Wang L, Felix JC, Lee JL, et al: The Proto-Oncogene c-kit Is Expressed In Leiomyosarcomas Of The Uterus. *Gynecol Oncol*, 2003 Aug; 90(2):402-6.  
 Poncelet C, Walker F, Madelenat P, et al: Expression of CD44 Standard And Isoforms V3 And V6 In Uterine Smooth Muscle Tumors: A Possible Diagnostic Tool For The Diagnosis Of Leiomyosarcoma. *Hum Pathol*, 2001 Nov; 32(11):1190-6.

Escondido - Angiosarcoma  
Glendale - Angiosarcoma  
Loma Linda University Medical Center Residents - Angiosarcoma  
Orange (UCI Medical Center Residents) - Angiosarcoma  
Palo Alto Pathology - Angiosarcoma  
San Francisco (San Francisco General Hospital) - Angiosarcoma  
Alabama (Cunningham Pathology) - Angiosarcoma  
Arkansas (University of Arkansas Medical Center) - Angiosarcoma, leg  
Florida (Munroe Regional Medical Center) - Angiosarcoma  
Florida (Winter Haven Hospital) - Angiosarcoma  
Georgia, Decatur - Angiosarcoma  
Illinois (Heartland Regional Medical Center) - Angiosarcoma  
Kansas (Coffeyville Regional Medical Center) - Angiosarcoma vs lymphangiosarcoma  
Kansas (Peterson Laboratory Services) - Angiosarcoma  
Kentucky (University of Louisville Hospital) - Angiosarcoma  
Maryland (Johns Hopkins Hospital) - Angiosarcoma, high-grade  
Maryland (National Naval Medical Center) - Angiosarcoma  
Maryland (University of Maryland) - Lymphangiosarcoma  
Massachusetts (UMass Memorial Health Care) - Angiosarcoma, high-grade  
Michigan (Henry Ford Hospital) - Angiosarcoma  
New York (Nassau University Medical Center) - Angiosarcoma  
New York (SUNY Downstate Residents) - Angiosarcoma  
New York (Westchester Medical Center) - Angiosarcoma  
North Carolina (Womack Army Medical Center) - Angiosarcoma (4)  
Ohio (Medical University of Ohio) - Angiosarcoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Angiosarcoma  
Texas (Baylor College of Medicine) - Angiosarcoma  
Texas (Scott & White Hospital) - Angiosarcoma  
Texas, Crystal Beach - Angiosarcoma  
Texas, Lubbock - Angiosarcoma  
Texas, San Antonio - Angiosarcoma  
West Virginia (Wetzel County Hospital) - Angiosarcoma  
Wisconsin, Marshfield - Angiosarcoma  
Australia (Sullivan Nicolaides Pathology) - Angiosarcoma  
Canada (Pasqua Hospital) - Angiosarcoma  
China (Sir Run Run Shaw Hospital) - Angiosarcoma  
Japan (Hamamatsu University School of Medicine) - Angiosarcoma  
Japan (Gunma University Hospital) - Angiosarcoma  
Japan, Chiba - Angiosarcoma  
Puerto Rico (University of Puerto Rico) - Angiosarcoma  
Qatar (Hamad Medical Corporation) - Angiosarcoma  
Spain (Povisa) - Angiosarcoma

**Case 10 - Diagnosis:**

**Angiosarcoma, leg**

**T-Y9400, M-9120/3**

**Case 10 - References:**

- Liu K, Layfield LJ: Cytomorphologic Features Of Angiosarcoma On Fine Needle Aspiration Biopsy. *Acta Cytol*, 1999 May-Jun; 43(3):407-15.
- Miettinen M, Sarlomo-Rikala M, Lasota J: KIT Expression In Angiosarcomas And Fetal Endothelial Cells: Lack Of Mutations Of Exon 11 And Exon 17 Of C-kit. *Mod Pathol*, 2000 May; 13(5):536-41.
- Komorowski AL, Wysocki WM, Mitus J: Angiosarcoma In A Chronically Lymphedematous Leg: An Unusual Presentation Of Stewart-Treves Syndrome. *South Med J*, 2003 Aug; 96(8):807-8.