



CALIFORNIA  
TUMOR TISSUE REGISTRY

“SOFT TISSUE TUMORS”

Minutes – Subscription B

November, 2005



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

A Tetraploid Twist On The Embryonic Stem Cell. Phimister EG. *N Engl J Med*, 2005 Oct 20; 353(16):1646-7.

Cell Proliferation: A Matter Of Time And Place. Deane NG, Parker MA, Beauchamp RD: *Surgery*, 2005 July; 138(1):1-7.

Gut-Derived Stem Cells. Rizvi AZ, Hunter JG, Wong MH: *Surgery*, 2005 June; 137(6):585-90.

Molecular Analysis Improves Sensitivity Of Breast Sentinel Lymph Node Biopsy: Results Of A Multi-Institutional Prospective Cohort Study. Mikhitarian K, Martin RH, Mitas M, et al: *Surgery*, 2005 Sep; 138(3):474-81.

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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:**

**Nodular fasciitis, forehead  
T-Y0110, M-76130**

**Case 2:**

**Elastofibroma, chest wall  
T-Y2150, M-8820/0**

**Case 3:**

**Mesenteric fibromatosis, small bowel  
T-64000, M-76100**

**Case 4:**

**Pleomorphic lipoma, shoulder  
T-Y1220, M-8850/0**

**Case 5:**

**Well-differentiated liposarcoma with sclerosing and myxoid features, retroperitoneum  
T-Y4600, M-8851/3**

**Case 6:**

**Lymphangioma, mesentery  
T-64200, M-9170/0**

**Case 7:**

**Soft tissue leiomyoma with myxomatous degeneration, abdominal wall  
T-Y4300, M-8890/0**

**Case 8:**

**Leiomyosarcoma, chest wall  
T-Y2150, M-8890/3**

**Case 9:**

**Malignant gastrointestinal stromal tumor (GIST), colon  
T-67000, M-96103**

**Case 10:**

**Myxofibrosarcoma (“myxoid MFH”), thigh  
T-Y9100, M-8830/3**

Escondido - Neurothekeoma  
Loma Linda University Medical Center Residents - Nodular fasciitis vs inflammatory myofibroblastic tumor  
Long Beach Memorial Medical Center - Nodular fasciitis  
Palo Alto Pathology - Nodular fasciitis, DD: Kaposi's sarcoma  
San Francisco (San Francisco General Hospital) - Nodular fasciitis  
Arkansas (University of Arkansas Medical Center) - Proliferative fasciitis, forehead  
Florida (Winter Haven Hospital) - Neurilemmoma  
Georgia, Decatur - Nodular fasciitis  
Illinois (Heartland Regional Medical Center) - Nodular fasciitis (cranial fasciitis)  
Kansas (Coffeyville Regional Medical Center) - Benign solitary fibrous tumor with myxoid change  
Kentucky (University of Louisville Hospital) - Nodular fasciitis  
Louisiana (Louisiana State University Medical Center) - Nodular fasciitis  
Maryland (Johns Hopkins Hospital) - Malignant spindle cell neoplasm, need stains  
Maryland (National Naval Medical Center) - Nodular fasciitis  
Maryland (University of Maryland) - Neurofibromatosis  
New York (Nassau University Medical Center) - Schwannoma  
New York (SUNY Downstate Residents) - Nodular fasciitis; Benign fibrous histiocytoma; Intramuscular fasciitis  
New York (Westchester Medical Center) - Nodular fasciitis  
Ohio (Medical University of Ohio) - Cranial fasciitis  
Pennsylvania (Allegheny General Hospital) - Nodular fasciitis  
Pennsylvania (Conemaugh Memorial Medical Center) - Nodular fasciitis  
Pennsylvania (Drexel University College of Medicine) - Nodular fasciitis  
Tennessee (Duckworth Pathology Group) - Schwannoma  
Texas (Baylor College of Medicine) - Nodular fasciitis  
Texas (Scott & White Hospital) - Nodular fasciitis  
Texas (Wilford Hall Medical Center Residents) - Nodular fasciitis  
Texas, Crystal Beach - Fibrous histiocytoma with myxoid changes  
Texas, Lubbock - Nodular fasciitis  
Wisconsin (Marshfield Clinic) - Sarcoma  
Australia (Sullivan Nicolaides Pathology) - Nodular fasciitis  
Canada (Pasqua Hospital) - Nodular fasciitis  
China (Sir Run Run Shaw Hospital) - Nodular fasciitis  
Japan (Asahi General Hospital) - Nodular fasciitis, eyebrow  
Japan (Hamamatsu University School of Medicine) - Nodular fasciitis  
Japan (Kyoto University Hospital) - Periosteal fasciitis  
Qatar (Hamad Medical Corporation) - Nodular fasciitis  
Spain (Povisa) - Fibromatosis - Nodular fasciitis  
The Netherlands, Amstelveen - Nodular fasciitis

**Case 1 - Diagnosis:**

**Nodular fasciitis, forehead  
T-Y0110, M-76130**

**Case 1 - References:**

Handa Y, Asai T, Tomita Y: Nodular Fasciitis Of The Forehead In A Pediatric Patient. *Dermatol Surg*, 2003 Aug; 29(8):867-8.  
Kato K, Ehara S, Nishida J, Satoh T: Rapid Involution Of Proliferative Fasciitis. *Skeletal Radiol*, 2004 May; 33(5):300-2  
Bau JL, Ly JQ, Lusk JD: Quiz Case. Nodular Fasciitis. *Eur J Radiol*, 2003 Jul; 47(1):54-6.  
Shimizu S, Hashimoto H, Enjoji M: Nodular Fasciitis: An Analysis Of 250 Patients. *Pathology*, 1984 Apr; 16(2):161-6.  
Weiss SW: Proliferative Fibroblastic Lesions. From Hyperplasia To Neoplasia. *Am J Surg Pathol*, 1986; 10(Suppl 1): 14-25.  
Review.

Escondido - Elastofibroma  
Loma Linda University Medical Center Residents - Elastofibroma  
Long Beach Memorial Medical Center - Elastofibroma dorsi

Palo Alto Pathology - Elastofibroma  
San Francisco (San Francisco General Hospital) - Elastofibroma  
Arkansas (University of Arkansas Medical Center) - Elastofibroma, back  
Florida (Winter Haven Hospital) - Elastofibroma  
Georgia, Decatur - Elastofibroma  
Illinois (Heartland Regional Medical Center) - Elastofibroma dorsi  
Kansas (Coffeyville Regional Medical Center) - Elastofibroma  
Kentucky (University of Louisville Hospital) - Elastofibroma  
Louisiana (Louisiana State University Medical Center) - Elastofibroma  
Maryland (Johns Hopkins Hospital) - Elastofibroma  
Maryland (National Naval Medical Center) - Elastofibroma  
Maryland (University of Maryland) - Elastofibroma  
New York (Nassau University Medical Center) - Fibroelastoma  
New York (SUNY Downstate Residents) - Elastofibroma  
New York (Westchester Medical Center) - Elastofibroma  
Ohio (Medical University of Ohio) - Elastofibroma  
Pennsylvania (Allegheny General Hospital) - Elastofibroma  
Pennsylvania (Conemaugh Memorial Medical Center) - Elastofibroma  
Pennsylvania (Drexel University College of Medicine) - Elastofibroma  
Tennessee (Duckworth Pathology Group) - Elastofibroma  
Texas (Baylor College of Medicine) - Elastoblastoma  
Texas (Scott & White Hospital) - Elastofibroma  
Texas (Wilford Hall Medical Center Residents) - Elastofibroma  
Texas, Crystal Beach - Elastofibroma with fat  
Texas, Lubbock - Fibroelastoma  
Wisconsin (Marshfield Clinic) - Elastofibroma  
Australia (Sullivan Nicolaides Pathology) - Elastofibroma  
Canada (Pasqua Hospital) - Elastofibroma  
China (Sir Run Run Shaw Hospital) - Elastofibroma  
Japan (Asahi General Hospital) - Elastofibroma, back  
Japan (Hamamatsu University School of Medicine) - Elastofibroma  
Japan (Kyoto University Hospital) - Elastofibroma dorsi  
Qatar (Hamad Medical Corporation) - Elastofibroma  
Spain (Povisa) - Elastofibroma  
The Netherlands, Amstelveen - Elastofibroma

## **Case 2 - Diagnosis:**

### **Elastofibroma, chest wall**

**T-Y2150, M-8820/0**

## **Case 2 - References:**

Marin ML, Perzin KH, Markowitz AM: Elastofibroma Dorsi: Benign Chest Wall Tumor. *J Thorac Cardiovasc Surg*, 1989 Aug; 98(2):234-8.  
 Mojica WD, Kuntzman T: Elastofibroma Dorsi: Elaboration Of Cytologic Features And Review Of Its Pathogenesis. *Diagn Cytopathol*, 2000 Dec; 23(6):393-6.  
 Cohen I, Kolender Y, Isakov J, et al: Elastofibroma: A Rare Cause Of Snapping Scapula Syndrome. *Harefuah*, 1999 Oct; 137(7-8):287-90.  
 Naylor MF, Nascimento AG, Sherrick AD, McLeod RA: Elastofibroma Dorsi: Radiologic Findings In 12 Patients. *Am J Roentgenol*, 1996 Sep; 167(3):683-7.  
 Fukuda Y, Miyake H, Masuda Y, Masugi Y: Histogenesis Of Unique Elastophilic Fibers Of Elastofibroma: Ultrastructural And Immunohistochemical Studies. *Hum Pathol*, 1987 May; 18(5):424-9.

## **Case No. 3 - Accession No. 30102**

**November, 2005**

Escondido - Gastrointestinal smooth muscle tumor  
Loma Linda University Medical Center Residents - Desmoid-type fibromatosis  
Long Beach Memorial Medical Center - Mesenteric fibromatosis  
Palo Alto Pathology - Fibromatosis with hyalinized collagen fibers

San Francisco (San Francisco General Hospital) - Gastrointestinal stromal tumor  
Arkansas (University of Arkansas Medical Center) - Intra-abdominal fibromatosis, small bowel  
Florida (Winter Haven Hospital) - Desmoid tumor  
Georgia, Decatur - Fibromatosis  
Illinois (Heartland Regional Medical Center) - Fibromatosis  
Kansas (Coffeyville Regional Medical Center) - Low grade leiomyosarcoma  
Kentucky (University of Louisville Hospital) - Solitary fibrous tumor vs desmoid  
Louisiana (Louisiana State University Medical Center) - Fibromatosis  
Maryland (Johns Hopkins Hospital) - Fibromatosis  
Maryland (National Naval Medical Center) - Desmoid-type fibromatosis (desmoid tumor) (5); Leiomyoma (5)  
Maryland (University of Maryland) - Fibromatosis  
New York (Nassau University Medical Center) - GIST  
New York (SUNY Downstate Residents) - Deep fibromatosis; Sclerosing mesenteritis  
New York (Westchester Medical Center) - Mesenteric fibromatosis  
Ohio (Medical University of Ohio) - Mesenteric fibromatosis  
Pennsylvania (Allegheny General Hospital) - Fibromatosis  
Pennsylvania (Conemaugh Memorial Medical Center) - Mesenteric fibromatosis  
Pennsylvania (Drexel University College of Medicine) - GIST, probably benign  
Tennessee (Duckworth Pathology Group) - Solitary fibrous tumor  
Texas (Baylor College of Medicine) - Desmoid tumor  
Texas (Scott & White Hospital) - Mesenteric fibromatosis  
Texas (Wilford Hall Medical Center Residents) - Desmoid tumor  
Texas, Crystal Beach - Myofibroblastic tumor, benign  
Texas, Lubbock - Desmoid tumor  
Wisconsin (Marshfield Clinic) - Desmoid (fibromatosis)  
Australia (Sullivan Nicolaides Pathology) - Mesenteric fibromatosis  
Canada (Pasqua Hospital) - Fibromatosis  
China (Sir Run Run Shaw Hospital) - Intra-abdominal fibromatosis  
Japan (Asahi General Hospital) - Mesenteric fibromatosis, small intestine  
Japan (Hamamatsu University School of Medicine) - Desmoid-type fibromatosis  
Japan (Kyoto University Hospital) - Desmoid tumor  
Qatar (Hamad Medical Corporation) - Mesenteric fibromatosis  
Spain (Povisa) - Fibromatosis - GIST  
The Netherlands, Amstelveen - GIST ?

### **CASE 3 - Diagnosis:**

**Mesenteric fibromatosis, small bowel**  
**T-64000, M-76100**

**Director's Note:** Many mesenteric fibromatoses display hyalinized "keloidal-like" collagen, a finding which is unusual in GIST. (drc)

### **Case 3 - References:**

Rodriguez JA, Guarda LA: Mesenteric Fibromatosis With Involvement Of The Gastrointestinal Tract. A GIST Simulator: A Study Of 25 Cases. *Am J Clin Pathol*, 2004 Jan; 121(1):93-8.  
 Pai SA, Zaveri SS: Intra-Abdominal Fibromatosis Of The Jejunum And Mesentery. *J Clin Pathol*, 2004 Oct; 57(10):1119.  
 Montgomery E, Torbenson MS, Kaushal M, et al: Beta-Catenin Immunohistochemistry Separates Mesenteric Fibromatosis From Gastrointestinal Stromal Tumor And Sclerosing Mesenteritis. *Am J Surg Pathol*, 2002 Oct; 26(10):1296-301.  
 Yantiss RK, Nielsen GP, Lauwers GY, Rosenberg AE: Reactive Nodular Fibrous Pseudotumor Of the Gastrointestinal Tract And Mesentery: A Clinicopathologic Study Of Five Cases. *Am J Surg Pathol*, 2003 Apr; 27(4):532-40.  
 Yantiss RK, Spiro IJ, Compton CC, Rosenberg AE: Gastrointestinal Stromal Tumors Versus Intra-Abdominal Fibromatosis Of The Bowel Wall: A Clinically Important Differential Diagnosis. *Am J Surg Pathol*, 2000 Jul; 24(7):947-57.

**Case No. 4 - Accession No. 30064**

**November, 2005**

Escondido - Pleomorphic lipoma  
Loma Linda University Medical Center Residents - Pleomorphic lipoma

Long Beach Memorial Medical Center - Pleomorphic lipoma  
Palo Alto Pathology - Pleomorphic lipoma  
San Francisco (San Francisco General Hospital) - Pleomorphic lipoma  
Arkansas (University of Arkansas Medical Center) - Pleomorphic/spindle cell lipoma, shoulder  
Florida (Winter Haven Hospital) - Myxoid liposarcoma  
Georgia, Decatur - Pleomorphic/spindle cell lipoma  
Illinois (Heartland Regional Medical Center) - Atypical lipomatous tumor  
Kansas (Coffeyville Regional Medical Center) - Pleomorphic liposarcoma vs MFH  
Kentucky (University of Louisville Hospital) - Pleomorphic lipoma  
Louisiana (Louisiana State University Medical Center) - Atypical lipomatous tumor with spindle cells and pleomorphic lipoma-like features  
Maryland (Johns Hopkins Hospital) - Pleomorphic lipoma  
Maryland (National Naval Medical Center) - Pleomorphic lipoma  
Maryland (University of Maryland) - Liposarcoma arising in a pleomorphic lipoma (atypical lipomatous tumor)  
New York (Nassau University Medical Center) - Pleomorphic lipoma  
New York (SUNY Downstate Residents) - Pleomorphic lipoma; Atypical fibroxanthoma; Fibroma with bizarre giant cells  
New York (Westchester Medical Center) - Pleomorphic lipoma  
Ohio (Medical University of Ohio) - Myxoid and pleomorphic malignant fibrous histiocytoma  
Pennsylvania (Allegheny General Hospital) - Pleomorphic lipoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Pleomorphic liposarcoma  
Pennsylvania (Drexel University College of Medicine) - Pleomorphic lipoma  
Tennessee (Duckworth Pathology Group) - Ancient schwannoma, CD34 (+)  
Texas (Baylor College of Medicine) - Pleomorphic lipoma with extensive myxoid change  
Texas (Scott & White Hospital) - Pleomorphic lipoma  
Texas (Wilford Hall Medical Center Residents) - Pleomorphic lipoma  
Texas, Crystal Beach - Pleomorphic lipoma  
Texas, Lubbock - Lipoma  
Wisconsin (Marshfield Clinic) - Pleomorphic lipoma  
Australia (Sullivan Nicolaides Pathology) - Pleomorphic lipoma  
Canada (Pasqua Hospital) - Spindle cell lipoma  
China (Sir Run Run Shaw Hospital) - Pleomorphic lipoma  
Japan (Asahi General Hospital) - Pleomorphic lipoma, shoulder  
Japan (Hamamatsu University School of Medicine) - Myxofibrosarcoma  
Japan (Kyoto University Hospital) - Pleomorphic liposarcoma  
Qatar (Hamad Medical Corporation) - Pleomorphic lipoma  
Spain (Povisa) - Pleomorphic lipoma  
The Netherlands, Amstelveen - Pleomorphic lipoma

#### **Case 4 - Diagnosis:**

**Pleomorphic lipoma, shoulder**  
**T-Y1220, M-8850/0**

#### **Case 4 - References:**

Fletcher CD, Akerman M, Dal Cin P, de Wever I, et al: Correlation Between Clinicopathologic Features And Karyotype In Lipomatous Tumors. A Report Of 178 Cases From The Chromosomes and Morphology (CHAMP) Collaborative Study Group. *Am J Pathol*, 1996 Feb; 148(2):623-30.  
 Nilsson M, Meza-Zepeda LA, Mertens F, et al: Amplification Of Chromosome 1 Sequences In Lipomatous Tumors And Other Sarcomas. *Int J Cancer*, 2004 Apr 10; 109(3):363-9.  
 Azzopardi JG, Iocco J, Salm R: Pleomorphic Lipoma: A Tumor Simulating Liposarcoma. *Histopathology*, 1983 Jul; 7(4):511-23.  
 Mandahl N, Mertens F, Willen H, et al: A New Cytogenetic Subgroup In Lipomas. Loss Of Chromosome 16 Material In Spindle Cell And Pleomorphic Lipomas. *J Cancer Res Clin Oncol*, 1994; 120(12):707-11.

#### **Case No. 5 - Accession No. 30111**

**November, 2005**

Escondido - Myxoid liposarcoma  
Loma Linda University Medical Center Residents - Myxoid liposarcoma  
Long Beach Memorial Medical Center - Inflammatory liposarcoma  
Palo Alto Pathology - Well-differentiated liposarcoma, inflammatory type

San Francisco (San Francisco General Hospital) - Myxoid liposarcoma  
Arkansas (University of Arkansas Medical Center) - Inflammatory liposarcoma, abdomen  
Florida (Winter Haven Hospital) - Angiomyolipoma  
Georgia, Decatur - Myxoid/round cell liposarcoma  
Illinois (Heartland Regional Medical Center) - Well-differentiated inflammatory liposarcoma (atypical lipomatous tumor, inflammatory type)  
Kansas (Coffeyville Regional Medical Center) - Myxoid liposarcoma  
Kentucky (University of Louisville Hospital) - Myxoid liposarcoma  
Louisiana (Louisiana State University Medical Center) - Myxoid liposarcoma  
Maryland (Johns Hopkins Hospital) - Well-differentiated liposarcoma, inflammatory type  
Maryland (National Naval Medical Center) - Liposarcoma  
New York (Nassau University Medical Center) - Angiomyolipoma  
New York (SUNY Downstate Residents) - Sclerosing liposarcoma; Myxoid liposarcoma  
New York (Westchester Medical Center) - Well-differentiated liposarcoma  
Ohio (Medical University of Ohio) - Myxoid liposarcoma  
Pennsylvania (Allegheny General Hospital) - Myxoid liposarcoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Inflammatory liposarcoma  
Pennsylvania (Drexel University College of Medicine) - Liposarcoma, sclerosing/myxoid  
Tennessee (Duckworth Pathology Group) - Spindle cell lipoma  
Texas (Baylor College of Medicine) - Inflammatory liposarcoma  
Texas (Scott & White Hospital) - Solitary fibrous tumor  
Texas (Wilford Hall Medical Center Residents) - Well-differentiated liposarcoma  
Texas, Crystal Beach - Inflammatory myofibroblastic tumor  
Texas, Lubbock - Sclerosing liposarcoma  
Wisconsin (Marshfield Clinic) - Inflammatory pseudotumor  
Australia (Sullivan Nicolaides Pathology) - Well-differentiated liposarcoma with myxoid areas  
Canada (Pasqua Hospital) - Myxoid liposarcoma  
China (Sir Run Run Shaw Hospital) - Myxoid liposarcoma  
Japan (Asahi General Hospital) - Angiomyolipoma, abdomen  
Japan (Hamamatsu University School of Medicine) - Inflammatory malignant fibrous histiocytoma  
Japan (Kyoto University Hospital) - Liposarcoma, inflammatory  
Qatar (Hamad Medical Corporation) - Inflammatory myofibroblastic tumor  
Spain (Povisa) - Liposarcoma  
The Netherlands, Amstelveen - Myxoid liposarcoma

#### **Case 5 - Diagnosis:**

**Well-differentiated liposarcoma with sclerosing and myxoid features, retroperitoneum**

**T-Y4600, M-8851/3**

#### **Case 5 - References:**

- Hostein I, Pelmus M, Aurias A, et al: Evaluation Of MDM2 And CDK4 Amplification By Real-Time PCR On Paraffin Wax-Embedded Material: A Potential Tool For The Diagnosis Of Atypical Lipomatous Tumours/Well-Differentiated Liposarcomas. *J Pathol*, 2004 Jan; 202(1):95-102.
- Laurino L, Furlanetto A, Orvieto E, Del Tos AP: Well-Differentiated Liposarcoma (Atypical Lipomatous Tumors). *Semin Diagn Pathol*, 2001 Nov; 18(4):258-62. Review.
- Pilotti S, Della Torre G, Mezzelani A, et al: The Expression of MDM2/CDK4 Gene Product In The Differential Diagnosis Of Well-Differentiated Liposarcoma And Large Deep-Seated Lipoma. *Br J Cancer*, 2000 Apr; 82(7):1271-5.
- Guillou L, Coindre JM: Newly Described Adipocytic Lesions. *Semin Diagn Pathol*, 2001 Nov; 18(4):238-49. Review.
- Rosai J, Akerman M, Dal Cin P, et al: Combined Morphologic And Karyotypic Study Of 59 Atypical Lipomatous Adipose Tissue Tumors. Evaluation Of Their Relationship And Differential Diagnosis With Other Adipose Tissue Tumors. (A Report Of The CHAMP Study Group). *Am J Surg Pathol*, 1996 Oct; 20(10):1182-9. Review.

**Case No. 6 - Accession No. 29978**

**November, 2005**

Escondido - Cystic lymphangioma  
Loma Linda University Medical Center Residents - Lymphangioma  
Long Beach Memorial Medical Center - Cystic lymphangioma  
Palo Alto Pathology - Intra-abdominal lymphangioma

San Francisco (San Francisco General Hospital) - Lymphangioma  
Arkansas (University of Arkansas Medical Center) - Lymphangioma, mesentery  
Florida (Winter Haven Hospital) - Lymphangioma  
Georgia, Decatur - Lymphangioma  
Illinois (Heartland Regional Medical Center) - Cavernous hemangioma  
Kansas (Coffeyville Regional Medical Center) - Cystic lymphangioma (hygroma)  
Kentucky (University of Louisville Hospital) - Lymphangioma  
Louisiana (Louisiana State University Medical Center) - Lymphangioma  
Maryland (Johns Hopkins Hospital) - Lymphangioma  
Maryland (National Naval Medical Center) - Lymphangioma  
Maryland (University of Maryland) - Lymphangioma  
New York (Nassau University Medical Center) - Lymphangioma  
New York (SUNY Downstate Residents) - Cystic lymphangiomyoma; Lymphangioectasia; Lymphangiomyoma  
New York (Westchester Medical Center) - Cystic lymphangioma  
Ohio (Medical University of Ohio) - Cystic lymphangioma  
Pennsylvania (Allegheny General Hospital) - Lymphangioma  
Pennsylvania (Conemaugh Memorial Medical Center) - Lymphangioma  
Pennsylvania (Drexel University College of Medicine) - Lymphangioma  
Tennessee (Duckworth Pathology Group) - Lymphangioma  
Texas (Baylor College of Medicine) - Lymphangioma  
Texas (Scott & White Hospital) - Cavernous lymphangioma  
Texas (Wilford Hall Medical Center Residents) - Lymphangioma  
Texas, Crystal Beach - Lymphangioma  
Texas, Lubbock - Lymphangioma  
Wisconsin (Marshfield Clinic) - Lymphangioma  
Australia (Sullivan Nicolaides Pathology) - Intra-abdominal lymphangioma  
Canada (Pasqua Hospital) - Lymphangioma  
China (Sir Run Run Shaw Hospital) - Lymphangioma  
Japan (Asahi General Hospital) - Multicystic mesothelioma, small intestine  
Japan (Hamamatsu University School of Medicine) - Lymphangioma  
Japan (Kyoto University Hospital) - Lymphangioma  
Qatar (Hamad Medical Corporation) - Lymphangioma  
Spain (Povisa) - Lymphangioma  
The Netherlands, Amstelveen - Cystic lymphangioma

#### **Case 6 - Diagnosis:**

**Lymphangioma, mesentery**

**T-64200, M-9170/0**

#### **Case 6 - References:**

- Izzo L, Galati G, Sassayannis PC, et al: Mesenteric Cystic Lymphangioma Causing Intestinal Occlusion In An Adult Patient. *G Chir*, 2003 Oct; 24(10):347-9.
- Tsukada H, Takaori K, Ishiguro S, et al: Giant Cystic Lymphangioma Of The Small Bowel Mesentery: Report Of A Case. *Surg Today*, 2002; 32(8):734-7.
- Rieker RJ, Quentmeier A, Weiss C, et al: Cystic Lymphangioma Of The Small-Bowel Mesentery: Case Report And A Review Of The Literature. *Pathol Oncol Res*, 2000; 6(2):146-8.
- Konen O, Rathaus V, Dlugy E, et al: Childhood Abdominal Cystic Lymphangioma. *Pediatr Radiol*, 2002 Feb; 32(2):88-94.
- Karaca I, Hosgor M, Sencan A, et al: Abdominal Cystic Lymphangioma: A Rare Cause of Acute Abdomen In A Neonate. *Pediatr Int*, 2001 Oct; 43(5):525-6.

#### **Case No. 7 - Accession No. 30086**

**November, 2005**

Escondido - Abdominal desmoid  
Loma Linda University Medical Center Residents - Leiomyoma with myxoid degeneration  
Long Beach Memorial Medical Center - Low grade leiomyosarcoma (2); leiomyoma (2)  
Palo Alto Pathology - Leiomyoma  
San Francisco (San Francisco General Hospital) - Desmoid fibromatosis



Arkansas (University of Arkansas Medical Center) - Leiomyoma, abdominal wall  
Florida (Winter Haven Hospital) - Cellular leiomyoma  
Georgia, Decatur - Leiomyoma  
Illinois (Heartland Regional Medical Center) - Leiomyoma  
Kansas (Coffeyville Regional Medical Center) - Cellular leiomyoma  
Kentucky (University of Louisville Hospital) - Leiomyoma  
Louisiana (Louisiana State University Medical Center) - Smooth muscle tumor of uncertain biologic behavior (leiomyoma vs myxoid leiomyosarcoma)  
Maryland (Johns Hopkins Hospital) - Parasitic leiomyoma  
Maryland (National Naval Medical Center) - Leiomyoma  
Maryland (University of Maryland) - Leiomyoma  
New York (Nassau University Medical Center) - Leiomyoma  
New York (SUNY Downstate Residents) - Leiomyoma with degeneration  
New York (Westchester Medical Center) - Leiomyoma  
Ohio (Medical University of Ohio) - Myxoid leiomyoma  
Pennsylvania (Allegheny General Hospital) - Leiomyoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Leiomyoma  
Pennsylvania (Drexel University College of Medicine) - Leiomyoma of deep soft tissue  
Tennessee (Duckworth Pathology Group) - Leiomyoma  
Texas (Baylor College of Medicine) - Leiomyoma  
Texas (Scott & White Hospital) - Leiomyoma  
Texas (Wilford Hall Medical Center Residents) - Leiomyoma  
Texas, Crystal Beach - Leiomyoma  
Texas, Lubbock - Leiomyoma  
Wisconsin (Marshfield Clinic) - Leiomyoma  
Australia (Sullivan Nicolaides Pathology) - Leiomyoma (parasitic)  
Canada (Pasqua Hospital) - Parasitic leiomyoma vs leiomyosarcoma  
China (Sir Run Run Shaw Hospital) - Leiomyomatosis peritonealis disseminata  
Japan (Asahi General Hospital) - Leiomyoma of deep soft tissue, anterior abdominal wall  
Japan (Hamamatsu University School of Medicine) - Leiomyoma  
Japan (Kyoto University Hospital) - Leiomyoma  
Qatar (Hamad Medical Corporation) - Leiomyoma  
Spain (Povisa) - Leiomyoma  
The Netherlands, Amstelveen - Hydropic leiomyoma

#### **Case 7 - Diagnosis:**

**Soft tissue leiomyoma with myxomatous degeneration, abdominal wall**  
**T-Y4300, M-8890/0**

#### **Case 7 - References:**

Billings SD, Folpe AL, Weiss SW: Do Leiomyomas Of Deep Soft Tissue Exist? An Analysis Of Highly Differentiated Smooth Muscle Tumors Of Deep Soft Tissue Supporting Two Distinct Subtypes. *Am J Surg Pathol*, 2001 Sep; 25(9):1134-42.  
 Weiss SW: Smooth Muscle Tumors Of Soft Tissue. *Adv Anat Pathol*, 2002 Nov; 9(6):351-9. Review.  
 Hornick JL, Fletcher CD: Criteria For Malignancy In Nonvisceral Smooth Muscle Tumors. *Ann Diagn Pathol*, 2003 Feb; 7(1):60-6. Review.  
 Sumi T, Ishiko O, Ueda K, et al: Magnetic Resonance Imaging Diagnosis Of A Deep Soft Tissue Leiomyoma Under The Rectus Muscle. *Gynecol Obstet Invest*, 2002; 53(4):231-3.  
 Lee MW, Choi JH, Sung KJ, et al: Palisaded And Verocay Body Prominent Leiomyoma Of Deep Soft Tissue. *J Dermatol*, 2002 Mar; 29(3):160-3.  
 Ninfo VV, Montesco MC: Myxoid Tumors Of Soft Tissues: A Challenging Pathological Diagnosis. *Adv Clin Pathol*, 1998 Apr; 2(2):101-115.

**Case No. 8 - Accession No. 29982**

**November, 2005**

Escondido - Leiomyosarcoma  
Loma Linda University Medical Center Residents - Leiomyosarcoma  
Long Beach Memorial Medical Center - Leiomyosarcoma  
Palo Alto Pathology - Epithelioid leiomyosarcoma  
San Francisco (San Francisco General Hospital) - Epithelioid leiomyosarcoma

Arkansas (University of Arkansas Medical Center) - Leiomyosarcoma, chest wall  
Florida (Winter Haven Hospital) - Extra-abdominal desmoid tumor  
Georgia, Decatur - Leiomyosarcoma  
Illinois (Heartland Regional Medical Center) - Leiomyosarcoma  
Kansas (Coffeyville Regional Medical Center) - High grade sarcoma (Rhabdo ?)  
Kentucky (University of Louisville Hospital) - Leiomyosarcoma  
Louisiana (Louisiana State University Medical Center) - Pleomorphic leiomyosarcoma  
Maryland (Johns Hopkins Hospital) - High grade leiomyosarcoma  
Maryland (National Naval Medical Center) - Rhabdomyosarcoma  
Maryland (University of Maryland) - Leiomyosarcoma  
New York (Nassau University Medical Center) - Sarcoma, likely rhabdomyosarcoma  
New York (SUNY Downstate Residents) - Leiomyosarcoma  
New York (Westchester Medical Center) - Leiomyosarcoma  
Ohio (Medical University of Ohio) - Leiomyosarcoma  
Pennsylvania (Allegheny General Hospital) - Leiomyosarcoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Rhabdomyosarcoma  
Pennsylvania (Drexel University College of Medicine) - Leiomyosarcoma  
Tennessee (Duckworth Pathology Group) - Malignant peripheral nerve sheath tumor (MPNST)  
Texas (Baylor College of Medicine) - Leiomyosarcoma  
Texas (Scott & White Hospital) - Leiomyosarcoma  
Texas (Wilford Hall Medical Center Residents) - Leiomyosarcoma  
Texas, Crystal Beach - Sarcoma (? Fibrosarcoma)  
Texas, Lubbock - Leiomyosarcoma  
Wisconsin (Marshfield Clinic) - Sarcoma/Leiomyosarcoma  
Australia (Sullivan Nicolaides Pathology) - Leiomyosarcoma  
Canada (Pasqua Hospital) - Leiomyosarcoma  
China (Sir Run Run Shaw Hospital) - Leiomyosarcoma  
Japan (Asahi General Hospital) - Embryonal rhabdomyosarcoma, spindle cell type  
Japan (Hamamatsu University School of Medicine) - Rhabdomyosarcoma, pleomorphic  
Japan (Kyoto University Hospital) - Leiomyosarcoma  
Qatar (Hamad Medical Corporation) - Leiomyosarcoma  
Spain (Povisa) - Leiomyosarcoma  
The Netherlands, Amstelveen - Leiomyosarcoma

#### **Case 8 - Diagnosis:**

**Leiomyosarcoma, chest wall**

**T-Y2150, M-8890/3**

#### **Case 8 - References:**

Cormier JN, Pollock RE: Soft Tissue Sarcomas. *CA Cancer J Clin*, 2004 Mar-Apr; 54(2):94-109. Review  
 Skubitz KM, Skubitz AP: Differential Gene Expression In Leiomyosarcoma. *Cancer*, 2003 Sep 1; 98(5):1029-38.  
 Klijanienko J, Caillaud JM, Lagace R, Vielh P: Fine-Needle Aspiration Of Leiomyosarcoma: A Correlative Cytohistopathological Study. *Diagn Cytopathol*, 2003 Mar; 28(3):119-25.  
 Rubin BP: Recent Progress In The Classification Of Soft Tissue Tumors: Role Of Genetics And Clinical Implications of 96 Tumors In 68 Patients. *Curr Opin Oncol*, 2001 Jul; 13(4):256-60. Review.  
 Ng EH, Pollock RE, Munsell MF, et al: Prognostic Factors Influencing Survival In Gastrointestinal Leiomyosarcomas: Implications For Surgical Management And Staging. *Ann Surg*, 1992 Jan; 215(1):68-77.

#### **Case No. 9 - Accession No. 30101**

**November, 2005**

Escondido - Pleomorphic gastrointestinal smooth muscle tumor  
Loma Linda University Medical Center Residents - Gastrointestinal stromal tumor (GIST)  
Long Beach Memorial Medical Center - GIST  
Palo Alto Pathology - GIST, malignant  
San Francisco (San Francisco General Hospital) - Gastrointestinal stromal tumor  
Arkansas (University of Arkansas Medical Center) - Malignant GIST, rectosigmoid colon  
Florida (Winter Haven Hospital) - GIST, high grade

[Georgia, Decatur](#) - Malignant gastrointestinal stromal tumor  
[Illinois \(Heartland Regional Medical Center\)](#) - Malignant GIST  
[Kansas \(Coffeyville Regional Medical Center\)](#) - GIST  
[Kentucky \(University of Louisville Hospital\)](#) - Malignant GIST  
[Louisiana \(Louisiana State University Medical Center\)](#) - High grade sarcoma  
[Maryland \(Johns Hopkins Hospital\)](#) - Malignant GIST  
[Maryland \(National Naval Medical Center\)](#) - Gastrointestinal stromal tumor  
[Maryland \(University of Maryland\)](#) - Gastrointestinal stromal tumor  
[New York \(Nassau University Medical Center\)](#) - Malignant GIST  
[New York \(SUNY Downstate Residents\)](#) - Gastrointestinal stromal tumor (GIST)  
[New York \(Westchester Medical Center\)](#) - Malignant GIST  
[Ohio \(Medical University of Ohio\)](#) - Malignant gastrointestinal stromal tumor  
[Pennsylvania \(Allegheny General Hospital\)](#) - GIST, high risk  
[Pennsylvania \(Conemaugh Memorial Medical Center\)](#) - GIST  
[Pennsylvania \(Drexel University College of Medicine\)](#) - GIST, malignant  
[Tennessee \(Duckworth Pathology Group\)](#) - GI stromal sarcoma  
[Texas \(Baylor College of Medicine\)](#) - Gastrointestinal stromal tumor, high grade  
[Texas \(Scott & White Hospital\)](#) - GIST  
[Texas \(Wilford Hall Medical Center Residents\)](#) - Pleomorphic sarcoma, immunoprofile favors GIST  
[Texas, Crystal Beach](#) - Gastrointestinal stromal tumor, malignant  
[Texas, Lubbock](#) - Gastrointestinal stromal tumor  
[Wisconsin \(Marshfield Clinic\)](#) - Gastrointestinal stromal tumor  
[Australia \(Sullivan Nicolaides Pathology\)](#) - Gastrointestinal stromal tumor  
[Canada \(Pasqua Hospital\)](#) - GIST  
[China \(Sir Run Run Shaw Hospital\)](#) - Gastrointestinal stromal tumor, malignant  
[Japan \(Asahi General Hospital\)](#) - Gastrointestinal stromal tumor, rectosigmoid colon  
[Japan \(Hamamatsu University School of Medicine\)](#) - GIST, malignant  
[Japan \(Kyoto University Hospital\)](#) - Gastrointestinal stromal sarcoma  
[Qatar \(Hamad Medical Corporation\)](#) - GIST, malignant  
[Spain \(Povisa\)](#) - GIST  
[The Netherlands, Amstelveen](#) - GIST

#### **Case 9 - Diagnosis:**

**Malignant gastrointestinal stromal tumor (GIST), colon**  
**T-67000, M-96103**

#### **Case 9 - References:**

Miettinen M, Sarloma-Rikala M, Sobin LH: Mesenchymal Tumors Of Muscularis Mucosae Of Colon And Rectum Are Benign Leiomyomas That Should Be Separated From Gastrointestinal Stromal Tumors—A Clinicopathologic And Immunohistochemical Study Of Eighty-eight Cases. *Mod Pathol*, 2001 Oct; 14(10):950-6.  
 DeMatteo RP, Lewis H, Leung D, et al: Two Hundred Gastrointestinal Stromal Tumors: Recurrence Patterns And Prognostic Factors For Survival. *Ann Surg*, 2000; 231:51-58.  
 Fletcher CD, Berman JJ, Corless C, et al: Diagnosis of Gastrointestinal Stromal Tumors: A Consensus Approach. *Int J Surg Pathol*, 2002 Apr; 10(2):81-9. Review.  
 Miettinen M, El-Rafai W, Sobin LH, Lasota J: Evaluation Of Malignancy And Prognosis Of Gastrointestinal Stromal Tumors: A Review. *Hum Pathol*, 2002 May; 33(5):478-83. Review.  
 Tornoczky T, Kover E, Pajor L: Frequent Occurrences Of Low Grade Cases Among Metastatic Gastrointestinal Stromal Tumors. *J Clin Pathol*, 2003 May; 56(5):363-7.

**Case No. 10 - Accession No. 29969**

**November, 2005**

[Escondido](#) - Dermatofibrosarcoma protuberans  
[Loma Linda University Medical Center Residents](#) - Myxofibrosarcoma (myxoid MFH)  
[Long Beach Memorial Medical Center](#) - High grade myxofibrosarcoma  
[Palo Alto Pathology](#) - MFH, inflammatory type; DD: myxoinflammatory fibrosarcoma  
[San Francisco \(San Francisco General Hospital\)](#) - Myxofibrosarcoma (MFH)  
[Arkansas \(University of Arkansas Medical Center\)](#) - Pleomorphic high grade sarcoma, thigh  
[Florida \(Winter Haven Hospital\)](#) - Fasciitis  
[Georgia, Decatur](#) - Pleomorphic sarcoma/malignant fibrous histiocytoma

Illinois (Heartland Regional Medical Center) - Low-grade malignant fibrous histiocytoma  
Kansas (Coffeyville Regional Medical Center) - Myxoid MFH  
Kentucky (University of Louisville Hospital) - MFH  
Louisiana (Louisiana State University Medical Center) - Myxoid MFH  
Maryland (Johns Hopkins Hospital) - Myxoid malignant fibrous histiocytoma (myxofibrosarcoma)  
Maryland (National Naval Medical Center) - Malignant fibrous histiocytoma (8); Myxoinflammatory fibroblastic sarcoma (2)  
New York (Nassau University Medical Center) - Myxoinflammatory fibroblastic sarcoma  
New York (SUNY Downstate Residents) - MFH; High grade fibrosarcoma  
New York (Westchester Medical Center) - Myxoinflammatory fibroblastic sarcoma  
Ohio (Medical University of Ohio) - Myxoid malignant fibrous histiocytoma  
Pennsylvania (Allegheny General Hospital) - High grade sarcoma (MFH)  
Pennsylvania (Conemaugh Memorial Medical Center) - Dermatofibrosarcoma protuberans  
Pennsylvania (Drexel University College of Medicine) - Malignant fibrous histiocytoma  
Tennessee (Duckworth Pathology Group) - DFSP  
Texas (Baylor College of Medicine) - Myxofibrosarcoma, high grade  
Texas (Scott & White Hospital) - Low grade fibromyxoid sarcoma with eosinophils  
Texas (Wilford Hall Medical Center Residents) - Myxoid malignant fibrous histiocytoma  
Texas, Crystal Beach - Sarcoma (possibly liposarcoma, dedifferentiated?)  
Texas, Lubbock - Malignant fibrous histiocytoma  
Wisconsin (Marshfield Clinic) - Malignant fibrous histiocytoma  
Australia (Sullivan Nicolaides Pathology) - Malignant fibrous histiocytoma-storiform/pleomorphic type  
Canada (Pasqua Hospital) - Malignant fibrous histiocytoma  
China (Sir Run Run Shaw Hospital) - Malignant fibrous histiocytoma  
Japan (Asahi General Hospital) - Dermatofibrosarcoma protuberans, thigh  
Japan (Hamamatsu University School of Medicine) - MFH  
Japan (Kyoto University Hospital) - Myxofibrosarcoma  
Qatar (Hamad Medical Corporation) - Myxoid MFH  
Spain (Povisa) - Malignant fibrous histiocytoma  
The Netherlands, Amstelveen - Pleomorphic sarcoma (malignant fibrous histiocytoma)

#### **Case 10 - Diagnosis:**

**Myxofibrosarcoma (“myxoid MFH”), thigh**  
**T-Y9100, M-8830/3**

#### **Case 10 - References:**

Montgomery E, Fisher C: Myofibroblastic Differentiation In Malignant Fibrous Histiocytoma (Pleomorphic Myofibrosarcoma): A Clinicopathologic Study. *Histopathology*, 2001 Jun; 38(6):499-509.  
 Wada T, Hasegawa T, Nagoya S, et al: Myxofibrosarcoma With An Infiltrative Growth Pattern: A Case Report. *Jpn J Clin Oncol*, 2000 Oct; 30(10):458-62.  
 Mentzel T, Calonje E, Wadden C, et al: Myxofibrosarcoma: Clinicopathologic Analysis Of 75 Cases With Emphasis Of The Low-Grade Variant. *Am J Surg Pathol*, 1996 Apr; 20(4):391-405.