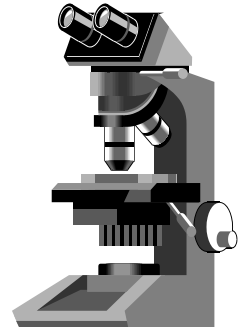


CALIFORNIA  
TUMOR TISSUE REGISTRY

## ***SOFT TISSUE PATHOLOGY***

Minutes – Subscription A

**April 2015**



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

RaoQ, Williamson SR, et al. Distinguishing Primary Adenocarcinoma of the Urinary Bladder From Secondary Involvement by Colorectal Adenocarcinoma: Extended Immunohistochemical Profiles Emphasizing Novel Markers. *Mod Pathol* 2013;26 (May):725-732.

Wang L, Gao T, Wang G. Verrucous Hemangioma: A Clinicopathological and Immunohistochemical Analysis of 74 Cases. *J Cutan Pathol* 2014;41 (November):823-830.

Calhoun BC, Chambers K, et al. Breast Cancer Detection in Axillary Sentinel Lymph Nodes: The Impact of the Method of Pathologic Examination. *Hum Pathol* 2014;45 (December):2497-2501.

Nayar R, Goulart RA, et al. Primary Human Papillomavirus Screening for Cervical Cancer in the United States – US Food and Drug Administration Approval, Clinical Trials, and Where We Are Today. *Cancer Cytopathol* 2014;122 (October):720-729.

Scott DW, Wright GW, et al. Determining Cell-of-Origin Subtypes of Diffuse Large B-Cell Lymphoma Using Gene Expression in Formalin-Fixed Paraffin-Embedded Tissue. *Blood* 2014;123 (February):1214-1217.

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](mailto:cttr@linkline.com)  
Web site & Case of the Month: [www.cttr.org](http://www.cttr.org)

## File Diagnoses

CTTR Subscription A

April 2015

**Case 1:**

Fibromatosis, ankle

**Case 2:**

Lipoma, vulva

**Case 3:**

Intramuscular lipoma, leg

**Case 4:**

Fibrolipoma, back

**Case 5:**

Well-differentiated liposarcoma with low-grade dedifferentiation, retroperitoneum

**Case 6:**

Myxoid liposarcoma, thigh

**Case 7:**

Solitary fibrous tumor (hemangiopericytoma), scrotum

**Case 8:**

Malignant solitary fibrous tumor/Hemangiopericytoma, region of thoracic spine

**Case 9:**

Extraskelatal myxoid chondrosarcoma, thigh

**Case 10:**

Pleomorphic sarcoma, probably recurrent/metastatic malignant peripheral nerve sheath tumor (MPNST), axilla

Fontana (Kaiser Foundation Hospital) - Fibromatosis  
Glendale - Desmoid tumor  
Lakewood - Fibromatosis  
Livermore – Fibromatosis, aggressive (EAD)  
Oakland (ACMC) – Low grade fibromyxoid sarcoma (6)  
Palo Alto (VA Palo Alto) – Fibromatosis (Desmoid Tumor)  
San Francisco (San Francisco General Hospital) - Nodular fasciitis  
San Francisco (UCSF) - Fibromatosis  
Santa Barbara (Miramonte Laboratory) - Desmoid  
Woodland Hills (Kaiser Permanente) - Fibromatosis  
Arkansas, El Dorado (Associated Path Lab) – Fibromatosis (2)  
Colorado, Fort Collins - Fibromatosis  
Delaware, Newark (AFMES) - Fibromatosis  
Florida (GastroEnterology Associates of Ocala) - Fibrous histiocytoma (aneurysmal variant)  
Georgia, Atlanta - Fibromatosis  
Georgia (Wellstar Healthcare System) - Fibromatosis (3)  
Illinois (Heartland Regional Medical Center) - Extra-abdominal fibromatosis  
Iowa (Allen Memorial Hospital) - Extra-abdominal desmoid-type fibromatosis  
Maryland (University of Maryland Medical System) - Fibromatosis  
Minnesota (Fairview Ridges Hospital) - Fibromatosis  
Mississippi (The University of Mississippi Medical Center) - Fibromatosis  
Nebraska (Creighton University Medical Center) - Fibromatosis  
New York (University of Buffalo Residents) - Low grade fibromyxoid sarcoma, recurrent  
Ohio, Toledo – Extra-abdominal fibromatosis  
Pennsylvania (Drexel University College of Medicine Residents) - DFSP  
Pennsylvania (Lehigh Valley Hospital) - Fibromatosis  
Puerto Rico (University of Puerto Rico) - Fibromatosis  
South Carolina (Medical University of South Carolina) - Fibromatosis  
Texas, Crystal Beach - Plantar fibromatosis  
Texas, Lubbock - Desmoid tumor  
West Virginia (Greenbrier Valley Medical Center) - Fibromatosis  
Australia (Royal Hobart Hospital) - Aggressive fibromatosis  
Canada (Royal Prince Alfred Hospital) - Fibromatosis  
India (Sri Siddhartha Medical College) - Nodular fasciitis/neurofibroma, right ankle  
Ireland (Bon Secours Hospital) – Desmoid fibromatosis  
Ireland (Kerry General Hospital) - Desmoid fibromatosis  
Ireland (Mayo General Hospital) - Fibromatosis  
Japan (Asahi General Hospital) - Fibromatosis  
Japan (Lions Mansion) - Fibromatosis  
Japan - Fibromatosis  
Oman (Khoulia Hospital) - Fibromatosis  
Spain (CHIVI Hospital) - Fibromatosis

**Case 1 - Diagnosis:**

Fibromatosis, ankle

**Case 1 - References:**

Fine-needle aspiration biopsy of the distal extremities: a study of 141 cases.  
Am J Clin Pathol 2010 Feb ;133 (2) : p224-31  
Jakowski JD; Mayerson J

Extra-abdominal desmoid tumors: a report of 234 cases.

J Surg Oncol 2010 Oct 1 ; 102 (5) : p380-4

Mankin HJ; Hornicek FJ; Springfield DS

Prognostic factors in desmoids-type fibromatosis: a clinicopathological and

Immunohistochemical analysis of 46 cases.  
Pathology 2010 Feb ; 42 (2) : p147-50  
Huang PW; Tzen CY

Aggressive fibromatosis in children and adolescents: the Italian experience.  
Cancer 2010 Jan 1; 116 (1) : p233-40  
Meazza C; Bisogno G, et al.

Desmoid tumors: a comprehensive review of the evolving biology, unpredictable behavior, and myriad of management options.

Hematol Oncol Clin North Am 2013 Oct; 27 (5) : p989-1005  
Devata S; Chugh R

Imaging of soft tissue lesions of the foot and ankle.  
Radiol Clin North Am 2008 Nov; 46 (6) : p1093-103, vii  
Bancroft LW; Peterson JJ; Kransdorf MJ

#### **Case No. 2, Accession No. 31915**

**April 2015**

Fontana (Kaiser Foundation Hospital) - Lipoma  
Glendale - Lipoma  
Lakewood - Lipoma  
Livermore – Lipoma  
Oakland (ACMC) – Lipoma (6)  
Palo Alto (VA Palo Alto) - Lipoma  
San Francisco (San Francisco General Hospital) - Lipoma  
San Francisco (UCSF) - Angiolipoma  
Santa Barbara (Miramonte Laboratory) - Lipoma  
Woodland Hills (Kaiser Permanente) - Angiolipoma  
Arkansas, El Dorado (Associated Path Lab) - Lipoma (2)  
Colorado, Fort Collins - Angiolipoma  
Delaware, Newark (AFMES) - Lipoma  
Florida (GastroEnterology Associates of Ocala) - Liposarcoma, well-differentiated  
Georgia, Atlanta - Lipoblastoma  
Georgia (Wellstar Healthcare System) - Lipoma (3)  
Illinois (Heartland Regional Medical Center) - Angiolipoma  
Iowa (Allen Memorial Hospital) - Lipoma  
Maryland (University of Maryland Medical System) - Lipoma  
Minnesota (Fairview Ridges Hospital) - Lipoma  
Mississippi (The University of Mississippi Medical Center) - Lipoma  
Nebraska (Creighton University Medical Center) - Lipoma  
New York (University of Buffalo Residents) - Lipoma  
Ohio, Toledo – Angiolipoma  
Pennsylvania (Drexel University College of Medicine Residents) - Angiolipoma  
Pennsylvania (Lehigh Valley Hospital) - Lipoma  
Puerto Rico (University of Puerto Rico) - Lipoma  
South Carolina (Medical University of South Carolina) - Lipoma  
Texas, Crystal Beach - Lipoma  
Texas, Lubbock - Angiolipoma  
West Virginia (Greenbrier Valley Medical Center) - Lipoma  
Australia (Royal Hobart Hospital) - Angiolipoma  
Canada (Royal Prince Alfred Hospital) - Lipoblastoma  
India (Sri Siddhartha Medical College) - Lipoma  
Ireland (Bon Secours Hospital) - Lipoma  
Ireland (Kerry General Hospital) - Lipoma

Ireland (Mayo General Hospital) - Angiolipoma  
Japan (Asahi General Hospital) - Lipoma  
Japan (Lions Mansion) - Lipoma  
Japan – Lipoma  
Oman (Khoula Hospital) - (1) Lipoma (2) Angiolipoma  
Spain (CHIVI Hospital) - Lipoma

**Case 2 - Diagnosis:**

Lipoma, vulva

**Case 2 - References:**

Large vulvar lipoma in an adolescent: a case report.  
J Korean Med Sci (Korea 2008 Aug; 23 (4) : p744-6  
Lee JH; Chung SM

Benign lipoblastoma-like tumor of the vulva: report of a case affecting a young patient.  
J Reprod Med 2007 Mar; 52 (3) : p223-4  
Atallah D; Rouzier R, et al.

Vulvar lipomas in children: an analysis of 7 cases.  
J Pediatr Surg 2009 Oct; 44 (10) : p1920-3  
Oh JT; Choi SH, et al.

Atypical lipomatous tumors of the vulva.  
Taiwan J Obstet Gynecol 2011 Sep; 50 (3) : p379-80  
Cheng CC; Ho CM; Liu Cy

A rare case of inguinolabial lipoblastoma in a 13-month-old female.  
J Pediatr Urol 2013 Feb; 9 (1) : Pg64-7  
Kirkham YA; Yarbrough CM, et al.

**Case No. 3, Accession No. 31921**

**April 2015**

Fontana (Kaiser Foundation Hospital) - Intramuscular lipoma  
Glendale - Intramuscular lipoma  
Lakewood – Intramuscular lipoma  
Livermore – Intramuscular lipoma  
Oakland (ACMC) – Intramuscular lipoma (6)  
Palo Alto (VA Palo Alto) – Intramuscular lipoma  
San Francisco (San Francisco General Hospital) - Intramuscular lipoma  
San Francisco (UCSF) - Intramuscular lipoma  
Santa Barbara (Miramonte Laboratory) - Infiltrating lipoma  
Woodland Hills (Kaiser Permanente) - Intramuscular lipoma  
Arkansas, El Dorado – Intramuscular lipoma (2)  
Colorado, Fort Collins - Intramuscular lipoma  
Delaware, Newark (AFMES) – Intramuscular Lipoma  
Florida (GastroEnterology Associates of Ocala) - Lipomatosis  
Georgia, Atlanta - Intramuscular lipoma  
Georgia (Wellstar Healthcare System) - Intramuscular lipoma (3)  
Illinois (Heartland Regional Medical Center) - Intramuscular angiolipoma/lipoma  
Iowa (Allen Memorial Hospital) - Intramuscular lipoma  
Maryland (University of Maryland Medical System) - Intramuscular lipoma  
Minnesota (Fairview Ridges Hospital) - Intramuscular lipoma

Mississippi (The University of Mississippi Medical Center) - Intramuscular lipoma  
Nebraska (Creighton University Medical Center) - Intramuscular lipoma  
New York (University of Buffalo Residents) - Intramuscular lipoma  
Ohio, Toledo – Intramuscular lipoma  
Pennsylvania (Drexel University College of Medicine Residents) - Intramuscular lipoma  
Pennsylvania (Lehigh Valley Hospital) - Intramuscular lipoma  
Puerto Rico (University of Puerto Rico) – Intramuscular lipoma  
South Carolina (Medical University of South Carolina) - Intramuscular lipoma  
Texas, Crystal Beach - Intramuscular (skeletal) lipoma  
Texas, Lubbock - Intramuscular lipoma  
West Virginia (Greenbrier Valley Medical Center) - Intramuscular lipoma  
Australia (Royal Hobart Hospital) - Intramuscular lipoma  
Canada (Royal Prince Alfred Hospital) - Intramuscular lipoma  
India (Sri Siddhartha Medical College) - Intramuscular lipoma, left leg  
Ireland (Bon Secours Hospital) – Intramuscular lipoma  
Ireland (Kerry General Hospital) - Intramuscular lipoma  
Ireland (Mayo General Hospital) - Intramuscular lipoma  
Japan - Lipoma  
Japan (Asahi General Hospital) - Intramuscular lipoma  
Japan (Lions Mansion) – Intramuscular Lipoma  
Oman (Khoula Hospital) – Intramuscular lipoma  
Spain (CHIVI Hospital) - Intramuscular lipoma

### **Case 3 - Diagnosis:**

Intramuscular lipoma, leg

### **Case 3 – References:**

Intramuscular lipoma of the abductor digiti minimi mimicking intramuscular haemangioma.  
 BMJ Case Rep 2013; 2013 p  
 Lui TH

An unusual case of an intramuscular lipoma of the biceps brachii.  
 Pan Afr Med J 2013; 15:40  
 Lahrach K; Kadi KI, et al.

Intramuscular lipoma arising within the pectoralis major muscle presenting as a radiographically detected breast mass.  
 Arch Pathol Lab Med 2011 Aug;135 (8) : p1061-3  
 D'Alfonso TM; Shin SJ

Surgical treatment of intramuscular, infiltrating lipoma.  
 Int Surg 2011 Jan-Mar; 96 (1) : p56-9  
 Su CH; Hung JK; Chang IL

Molecular testing for lipomatous tumors: critical analysis and test recommendations based on the analysis of 405 extremity-based tumors.  
 Am J Surg Pathol 2010 Sep; 34 (9) : p1304-11  
 Zhang H; Erickson-Johnson M, et al.

Atypical lipomatous tumor, its variants, and its combined forms: a study of 61 cases, with a minimum follow-up of 10 years.  
 Am J Surg Pathol 2007 Jan; 31 (1) : p1-14  
 Evans HL

**Case No. 4, Accession No. 31896**

**April 2015**

Fontana (Kaiser Foundation Hospital) - Lipoma  
Glendale - Lipoma  
Lakewood – Fibrous Lipoma  
Livermore – Fibrolipoma  
Oakland (ACMC) – Lipoma (6)  
Palo Alto (VA Palo Alto) – Spindle cell lipoma  
San Francisco (San Francisco General Hospital) - Intramuscular lipoma  
San Francisco (UCSF) - Lipoma (fibrolipoma)  
Santa Barbara (Miramonte Laboratory) - Elastofibroma  
Woodland Hills (Kaiser Permanente) - Spindle cell lipoma  
Arkansas, El Dorado (Associated Path Lab) – Fibrolipoma (2)  
Colorado, Fort Collins - Elastofibroma  
Delaware, Newark (AFMES) – Well differentiated Liposarcoma  
Florida (GastroEnterology Associates of Ocala) - Atypical lipoma  
Georgia, Atlanta - Spindle cell lipoma  
Georgia (Wellstar Healthcare System) - Intramuscular lipoma (2); Fibrolipoma (1)  
Illinois (Heartland Regional Medical Center) - Nuchal fibroma  
Iowa (Allen Memorial Hospital) - Lipoma  
Maryland (University of Maryland Medical System) - Sclerosing lipoma  
Minnesota (Fairview Ridges Hospital) - Elastofibroma/fibrolipoma  
Mississippi (The University of Mississippi Medical Center) - Lipoma  
Nebraska (Creighton University Medical Center) - Spindle cell lipoma  
New York (University of Buffalo Residents) - Spindle cell lipoma  
Ohio, Toledo – Fibrolipoma  
Pennsylvania (Drexel University College of Medicine Residents) - Fibrolipoma  
Pennsylvania (Lehigh Valley Hospital) - Lipoma  
Puerto Rico (University of Puerto Rico) – Spindle cell lipoma  
South Carolina (Medical University of South Carolina) - Lipoma  
Texas, Crystal Beach - Fibrolipoma  
Texas, Lubbock - Lipoma  
West Virginia (Greenbrier Valley Medical Center) - Fibrolipoma  
Australia (Royal Hobart Hospital) - Fibrolipoma/nuchal fibroma  
Canada (Royal Prince Alfred Hospital) - Nuchal-type fibroma  
India (Sri Siddhartha Medical College) - Angiomyolipoma/fibrolipoma, back  
Ireland (Bon Secours Hospital) – Spindle cell lipoma  
Ireland (Kerry General Hospital) - Intramuscular lipoma  
Ireland (Mayo General Hospital) - Fibrolipoma/elastofibroma  
Japan - Lipoma  
Japan (Asahi General Hospital) - Nevus lipomatosis superficialis  
Japan (Lions Mansion) – Spindle Cell lipoma  
Oman (Khoulia Hospital) - Fibrolipoma  
Spain (CHIVI Hospital) - Fibrolipoma

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

Fibrolipoma, back

Director's note: "A CD34 was negative."

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

Giant fibrolipoma of the spermatic cord.  
 Pathol Int 2010 Apr; 60 (4) : p330-2  
 Terada T

Fibrolipoma of the toe.  
 Foot Ankle Spec 2010 Feb; 3 (1) : p33-4  
 Lui TH

Giant fibrolipoma of the hypopharynx: a rare presentation.  
 J Otolaryngol Head Neck Surg 2010 Feb; 39 (1) : Pg1-3

Jaswal A; Haldar A, et al.

A massive fibrolipoma in the temple.

J Craniofac Surg 2013 May; 24 (3) : pe251-3

Kim BJ; Park CS

Fibrolipomas masquerading as abdominal hernias.

BMJ Case Rep 2013; 2013 p

Watson HI; Saunders AJ

Extramuscular subcutaneous fibrolipoma containing foci of striated muscle cells: a hitherto unreported condition.

Int J Clin Exp Pathol 2013; 6 (1) : p113-5

Terada T

## Case No. 5, Accession No. 31909

April 2015

Fontana (Kaiser Foundation Hospital) - Liposarcoma

Glendale - Well-differentiated liposarcoma with low-grade dedifferentiation

Lakewood - Well-differentiated liposarcoma

Livermore - ALN/WDL sclerosing variant

Oakland (ACMC) - Well-differentiated liposarcoma (6)

Palo Alto (VA Palo Alto) - Well differentiated liposarcoma

San Francisco (San Francisco General Hospital) - Liposarcoma

San Francisco (UCSF) - Dedifferentiated liposarcoma

Santa Barbara (Miramonte Laboratory) - Ganglioneuroma

Woodland Hills (Kaiser Permanente) - Well-differentiated liposarcoma/atypical lipomatous tumor

Arkansas, El Dorado - Well differentiated sclerosing liposarcoma (2)

Colorado, Fort Collins - Hyalinized leiomyosarcoma

Delaware, Newark - Dedifferentiated Liposarcoma

Florida (GastroEnterology Associates of Ocala) - Pleomorphic liposarcoma

Georgia, Atlanta - Well-differentiated sclerosing liposarcoma

Georgia (Wellstar Healthcare System) - Well-differentiated liposarcoma (2); Liposarcoma (1)

Illinois (Heartland Regional Medical Center) - Well-differentiated liposarcoma

Iowa (Allen Memorial Hospital) - Well-differentiated liposarcoma

Maryland (University of Maryland Medical System) - Well-differentiated liposarcoma

Minnesota (Fairview Ridges Hospital) - Well-differentiated liposarcoma, sclerosing type

Mississippi (The University of Mississippi Medical Center) - Well-differentiated liposarcoma

Nebraska (Creighton University Medical Center) - Well-differentiated liposarcoma

New York (University of Buffalo Residents) - Well-differentiated liposarcoma

Ohio, Toledo - Dedifferentiated liposarcoma

Pennsylvania (Drexel University College of Medicine Residents) - Sclerosing liposarcoma

Pennsylvania (Lehigh Valley Hospital) - Well-differentiated liposarcoma

Puerto Rico (University of Puerto Rico) - Well differentiated liposarcoma, sclerosing variant

South Carolina (Medical University of South Carolina) - Dedifferentiated liposarcoma

Texas, Crystal Beach - Ganglioneuroma

Texas, Lubbock - Myxoid liposarcoma

West Virginia (Greenbrier Valley Medical Center) - Ganglioneuroma

Australia (Royal Hobart Hospital) - Well-differentiated (sclerosing) liposarcoma

Canada (Royal Prince Alfred Hospital) - Sclerosing liposarcoma

India (Sri Siddhartha Medical College) - Pleomorphic lipoma, retroperitoneal

Ireland (Bon Secours Hospital) - Well differentiated liposarcoma

Ireland (Kerry General Hospital) - Well-differentiated (sclerosing) liposarcoma

Ireland (Mayo General Hospital) - Atypical lipomatous tumor (sclerosing)

Japan - Atypical lipoma

Japan (Asahi General Hospital) - Well-differentiated liposarcoma



Japan (Lions Mansion) – Atypical lipomatous tumor/well differentiated liposarcoma  
Oman (Khoulia Hospital) – Well differentiated liposarcoma  
Spain (CHIVI Hospital) - Sclerosing well-differentiated liposarcoma

**Case 5 - Diagnosis:**

Well-differentiated liposarcoma with low-grade dedifferentiation, retroperitoneum

**Case 5 – References:**

Predicting dedifferentiation in liposarcoma: a proteomic approach.

Virchows Arch 2013 Jul; 463 (1) : P85-92

McClain CM; Friedman DB, et al.

Dedifferentiated liposarcoma with lipoma-like well-differentiated liposarcoma: clinicopathological study of 30 cases, with particular attention to the comingling pattern of well- and dedifferentiated components: a proposal for regrouping of the present subclassification of well-differentiated liposarcoma and dedifferentiated liposarcoma.

Int J Surg Pathol 2013 Feb; 21 (1) :15-21

Int J Surg Pathol 2013 Jun; 21 (3) :314-5

Iwasa Y; Nakashima Y

Well-differentiated and dedifferentiated liposarcomas with prominent myxoid stroma: analysis of 56 cases.

Histopathology 2013 Jan; 62 (2) : p287-93

Sioletic S; Dal Cin P; Fletcher CD

Immunohistochemical detection of p53 and MDM2 expressions in liposarcoma with World health organization classification.

Indian J Cancer 2013 Jul-Sep; 50 (3) : p164-9

Arici A; Ozgur T, et al.

Retroperitoneal liposarcoma.

J Urol 2013 Mar; 189 (3) : p1093-4

Chang IY; Herts BR

**Case No. 6, Accession No. 31853**

**April 2015**

Fontana (Kaiser Foundation Hospital) - Liposarcoma, myxoid/round cell

Glendale - Myxoid liposarcoma

Lakewood – Myxoid liposarcoma protuberous

Livermore – Myxoid/round cell liposarcoma

Oakland (ACMC) – Myxoid liposarcoma (6)

Palo Alto (VA Palo Alto) – Myxoid liposarcoma

San Francisco (San Francisco General Hospital) - Myxoid liposarcoma

San Francisco (UCSF) - Myxoid liposarcoma

Santa Barbara (Miramonte Laboratory) - Myxoid liposarcoma

Woodland Hills (Kaiser Permanente) - Myxoid/round cell liposarcoma

Arkansas, El Dorado (Associated Path Lab) – Myxoid/round cell liposarcoma (1) Myxoid liposarcoma with transformation to round cell liposarcoma

Colorado, Fort Collins - Dedifferentiated liposarcoma

Delaware, Newark (AFMES) – Myxoid Liposarcoma

Florida (GastroEnterology Associates of Ocala) - Myxoid chondrosarcoma

Georgia, Atlanta - Myxoid/round cell liposarcoma

Georgia (Wellstar Healthcare System) - Liposarcoma with myxoid and round cell changes (2); Liposarcoma (1)

Illinois (Heartland Regional Medical Center) - Myxoid liposarcoma

Iowa (Allen Memorial Hospital) - Myxoid liposarcoma  
Maryland (University of Maryland Medical System) - Myxoid liposarcoma  
Minnesota (Fairview Ridges Hospital) - Myxoid round cell liposarcoma  
Mississippi (The University of Mississippi Medical Center) - Myxoid liposarcoma  
Nebraska (Creighton University Medical Center) - Myxoid liposarcoma  
New York (University of Buffalo Residents) - Myxoid/round cell liposarcoma  
Ohio, Toledo – Myxoid/round cell liposarcoma  
Pennsylvania (Drexel University College of Medicine Residents) - Myxoid/round cell liposarcoma  
Pennsylvania (Lehigh Valley Hospital) - Myxoid liposarcoma with round cell liposarcoma  
Puerto Rico (University of Puerto Rico) – Myxoid/round cell liposarcoma  
South Carolina (Medical University of South Carolina) - Myxoid liposarcoma with round cell component  
Texas, Crystal Beach - Liposarcoma  
Texas, Lubbock - Myxoid liposarcoma  
West Virginia (Greenbrier Valley Medical Center) - Liposarcoma  
Australia (Royal Hobart Hospital) - Myxoid/round cell liposarcoma  
Canada (Royal Prince Alfred Hospital) - High grade myxoid liposarcoma  
India (Sri Siddhartha Medical College) - Myxoid liposarcoma, thigh  
Ireland (Bon Secours Hospital) – High grade myxoid liposarcoma  
Ireland (Kerry General Hospital) - Myxoid liposarcoma with high grade areas  
Ireland (Mayo General Hospital) - Myxoid liposarcoma  
Japan - Liposarcoma  
Japan (Asahi General Hospital) - Myxoid liposarcoma  
Japan (Lions Mansion) – Myxoid liposarcoma  
Oman (Khoula Hospital) – Myxoid liposarcoma  
Spain (CHIVI Hospital) - Round cell liposarcoma

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

Myxoid liposarcoma, thigh

Director's note: The current tendency is to call all of these "Myxoid liposarcoma". The name "Round cell" is dropped but the presence of round cells indicates a higher tumor grade. (as in this case (drc))

#### **Case 6 – References:**

NY-ESO-1 is a sensitive and specific immunohistochemical marker for myxoid and round cell liposarcomas among related mesenchymal myxoid neoplasms.

Mod Pathol 2013 Sep; 26 (9) : p1204-10

Hemminger JA; Iwenofu OH

Myxoid liposarcoma with cartilaginous differentiation: a case study with cytogenetical analysis.

Korean J Pathol (Korea 2013 Jun; 47 (3) : p284-8

Kim H; Hwangbo W, et al.

Metastatic pattern, local relapse, and survival of patients with myxoid liposarcoma: a retrospective study of 45 patients.

Sarcoma 2013; 2013 : 548328

Fuglo HM; Maretty-Nielsen K, et al.

Localized and metastatic myxoid/round cell liposarcoma: clinical and molecular observations.

Cancer 2013 May 15; 119 (10) : p1868-77

Hoffman A; Ghadimi MP, et al.

The expanded histologic spectrum of myxoid liposarcoma with an emphasis on newly described patterns: implications for diagnosis on small biopsy specimens.

Am J Clin Pathol 2012 Feb; 137 (2) : p229-39

Fritchie KJ; Goldblum JR, et al.

Update on liposarcoma: a review for cytopathologists.

**Case No. 7, Accession No. 31811**

**April 2015**

Fontana (Kaiser Foundation Hospital) - Solitary fibrous tumor  
Glendale - DFSP  
Lakewood – Dermatofibrosarcoma protuberans  
Livermore – SFT vs. Cellular angiofibroma  
Oakland (ACMC) – Solitary fibrous tumor (6)  
Palo Alto (VA Palo Alto) – Solitary fibrous tumor / Hemangiopericytoma (SFT/HPC)  
San Francisco (San Francisco General Hospital) - Aggressive angiomyxoma  
San Francisco (UCSF) - Cellular angiofibroma  
Santa Barbara (Miramonte Laboratory) - Solitary fibrous tumor  
Woodland Hills (Kaiser Permanente) - Solitary fibrous tumor  
Arkansas, El Dorado – Dermatofibrosarcoma protuberans (DFSP)  
Colorado, Fort Collins - Solitary fibrous tumor  
Delaware, Newark (AFMES) - Schwannoma  
Florida (GastroEnterology Associates of Ocala) - DFSP  
Georgia, Atlanta - Solitary fibrous tumor  
Georgia (Wellstar Healthcare System) - Solitary fibrous tumor vs. Kaposi's sarcoma (3)  
Illinois (Heartland Regional Medical Center) - Dermatofibrosarcoma protuberans  
Iowa (Allen Memorial Hospital) - Solitary fibrous tumor  
Maryland (University of Maryland Medical System) - Solitary fibrous tumor  
Minnesota (Fairview Ridges Hospital) - Solitary fibrous tumor  
Mississippi (The University of Mississippi Medical Center) - GIST  
Nebraska (Creighton University Medical Center) - Solitary fibrous tumor  
New York (University of Buffalo Residents) - Solitary fibrous tumor  
Ohio, Toledo – Solitary fibrous tumor  
Pennsylvania (Drexel University College of Medicine Residents) - Kaposiform hemangioendothelioma  
Pennsylvania (Lehigh Valley Hospital) - Solitary fibrous tumor  
Puerto Rico (University of Puerto Rico) – Dermatofibrosarcoma protuberans / Solitary fibrous tumor / Hemangiopericytoma / Cellular angiofibroma  
South Carolina (Medical University of South Carolina) - Solitary fibrous tumor  
Texas, Crystal Beach - Fibrous periorchitis, sclerosing hemangioma type  
Texas, Lubbock - Hemangiopericytoma  
West Virginia (Greenbrier Valley Medical Center) - Dermatofibrosarcoma protuberans  
Australia (Royal Hobart Hospital) - Solitary fibrous tumor  
Canada (Royal Prince Alfred Hospital) - Solitary fibrous tumor  
India (Sri Siddhartha Medical College) - Solitary fibrous tumor, scrotum  
Ireland (Bon Secours Hospital) – Solitary fibrous tumor  
Ireland (Kerry General Hospital) - Solitary fibrous tumor  
Ireland (Mayo General Hospital) - Hemangiopericytoma  
Japan – Dermatofibrosarcoma Protuberans  
Japan (Asahi General Hospital) - Solitary fibrous tumor  
Japan (Lions Mansion) – Low grade fibromyxoid Sarcoma  
Oman (Khoula Hospital) – (1) Solitary fibrous tumor (2) Cellular angiofibroma  
Spain (CHIVI Hospital) - Solitary fibrous tumor

**Case 7 - Diagnosis:**

Solitary fibrous tumor (hemangiopericytoma), scrotum

**Case 7 – References:**

Solitary fibrous tumor: a clinicopathological study of 110 cases and proposed risk assessment model.  
Mod Pathol 2012 Sep;25 (9) : p1298-306  
Demicco EG; Park MS, et al.

Solitary fibrous tumor arising slowly in the vulva over 10 years: case report and review.  
J Obstet Gynaecol Res 2012 May; 38 (5) : p884-8  
Taki M; Baba T, et al.

Solitary fibrous tumour: a diagnostic challenge for the cytopathologist.  
Cytopathology 2012 Aug;23 (4) : p250-5  
Gupta N; Barwad A, et al.

Myxoid solitary fibrous tumor: a study of three cases.  
Int J Surg Pathol 2013 Aug; 21 (4) : p358-62  
Dantey K; Cooper K

Large solitary fibrous tumour of the retroperitoneum ; a case report and review of the literature.  
Scott Med J 2013 Nov; 58 (4) : pe26-30  
Orsaria M; Marzinotto S; Mariuzzi L

Case No. 8, Accession No. 31735

April 2015

Fontana (Kaiser Foundation Hospital) - Hemangiopericytoma  
Glendale - Hemangiopericytoma/solitary fibrous tumor  
Lakewood – Solitary fibrous tumor  
Livermore – Solitary fibrous tumor  
Oakland (ACMC) – Angiosarcoma (6)  
Palo Alto (VA Palo Alto) – Malignant Solitary fibrous tumor  
San Francisco (San Francisco General Hospital) - Angiosarcoma  
San Francisco (UCSF) - Solitary fibrous tumor  
Santa Barbara (Miramonte Laboratory) - Hemangiopericytoma  
Woodland Hills (Kaiser Permanente) - Hemangiopericytoma  
Arkansas, El Dorado – Solitary fibrous tumor (2)  
Colorado, Fort Collins - Hemangiopericytoma  
Delaware, Newark (AFMES) – Synovial Sarcoma  
Florida (GastroEnterology Associates of Ocala) - Solitary fibrous tumor (hemangiopericytoma)  
Georgia, Atlanta - Solitary fibrous tumor, probably malignant  
Georgia (Wellstar Healthcare System) - Rule out lymphoma/rule out GIST (1); Rule out lymphoma (1); Malignant solitary fibrous tumor (1)  
Illinois (Heartland Regional Medical Center) - Malignant solitary fibrous tumor  
Iowa (Allen Memorial Hospital) - Malignant solitary fibrous tumor  
Maryland (University of Maryland Medical System) - MPNST vs SFT, FISH recommended  
Minnesota (Fairview Ridges Hospital) - Malignant solitary fibrous tumor  
Mississippi (The University of Mississippi Medical Center) - SFT  
Nebraska (Creighton University Medical Center) - High grade sarcoma with hemangiopericytoma-like features  
New York (University of Buffalo Residents) - High grade sarcoma, favor malignant  
Ohio, Toledo – Epithelioid Hemangioendothelioma  
Pennsylvania (Drexel University College of Medicine Residents) - MPNST  
Pennsylvania (Lehigh Valley Hospital) - Malignant solitary fibrous tumor  
Puerto Rico (University of Puerto Rico) – Malignant solitary fibrous tumor / Hemangiopericytoma  
South Carolina (Medical University of South Carolina) - Malignant solitary fibrous tumor  
Texas, Crystal Beach - Hemangioendothelioma  
Texas, Lubbock - Angiosarcoma  
West Virginia (Greenbrier Valley Medical Center) - Pleomorphic sarcoma  
Australia (Royal Hobart Hospital) - Malignant solitary fibrous tumor

Canada (Royal Prince Alfred Hospital) - Malignant solitary fibrous tumor  
India (Sri Siddhartha Medical College) - Hemangioendothelioma, spine  
Ireland (Bon Secours Hospital) – Dermatofibrosarcoma protuberans  
Ireland (Kerry General Hospital) - Malignant solitary fibrous tumor  
Ireland (Mayo General Hospital) - Hemangioendothelioma  
Japan – Dermatofibrosarcoma protuberans  
Japan (Asahi General Hospital) - Solitary fibrous tumor  
Japan (Lions Mansion) – Solitary fibrous tumor  
Oman (Khoula Hospital) – Malignant solitary fibrous tumor  
Spain (CHIVI Hospital) - Angiosarcoma vs. malignant fibrous tumor vs. fibrosarcoma

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

Malignant solitary fibrous tumor/Hemangiopericytoma, region of thoracic spine

Consultation: Dr. Christopher Fletcher, Harvard Medical School:  
 “Malignant solitary fibrous tumor”

#### **Case 8 – References:**

Malignant solitary fibrous tumor of the lumbar spinal root mimicking schwannoma: a case report.

Spine J 2014 Jan; 14 (1) : p17-20

Nagano A; Ohno T, et al.

Malignant solitary fibrous tumor of the pleura slowly growing over 17 years: case report.

J Cardiothorac Surg 2014; 9:113

Jeon HW; Kwon SS; Kim YD

A huge malignant solitary fibrous tumor of kidney: case report and review of the literature.

Diagn Pathol 2014;9:13

Wang H; Liao Q, et al.

P16 Deletion in sarcomatoid tumors of the lung and pleura.

Arch Pathol Lab Med 2013 May; 137 (5) : p632-6

Tochigi N; Attanoos R, et al.

Malignant fat-forming solitary fibrous tumor (lipomatous hemangiopericytoma) in the neck: Imaging and histopathological findings of a case.

J Radiol case Rep 2013 Mar; 7 (3): p1-7

de Carvalho AD; Abrahao-Machado LF, et al.

Heterologous osteosarcomatous and rhabdomyosarcomatous elements in dedifferentiated solitary fibrous tumor: further support for the concept of dedifferentiation in solitary fibrous tumor.

Ann Diagn Pathol 2013 Oct;17 (5) : p457-63

Thway K; Hayes A; Ieremia E; Fisher C

#### **Case No. 9, Accession No. 31798**

**April 2015**

Fontana (Kaiser Foundation Hospital) - Chondrosarcoma

Glendale - Extraskeletal myxoid chondrosarcoma

Lakewood – Myxoid extra-medullary chondrosarcoma

Livermore – Intramuscular myxoma

Oakland (ACMC) – Myxoid Chondrosarcoma (6)

Palo Alto (VA Palo Alto) – Extraskeletal chondrosarcoma

San Francisco (San Francisco General Hospital) - Extraskeletal myxoid chondrosarcoma

San Francisco (UCSF) - Extraskeletal myxoid chondrosarcoma

Santa Barbara (Miramonte Laboratory) - Chondrosarcoma  
Woodland Hills (Kaiser Permanente) - Extraskelatal myxoid chondrosarcoma  
Arkansas, El Dorado (Associated Path Lab) – Extraskelatal myxoid chondrosarcoma (2)  
Colorado, Fort Collins - Extraosseous chondrosarcoma  
Delaware, Newark (AFMES) - Chordoma  
Florida (GastroEnterology Associates of Ocala) - Chondrosarcoma, extraskelatal  
Georgia, Atlanta - Extraskelatal myxoid chondrosarcoma  
Georgia (Wellstar Healthcare System) - Myxoid chondrosarcoma vs. chondroma (3)  
Illinois (Heartland Regional Medical Center) - Extraskelatal myxoid chondrosarcoma  
Iowa (Allen Memorial Hospital) - Extraskelatal myxoid chondrosarcoma  
Maryland (University of Maryland Medical System) - Extraskelatal myxoid chondrosarcoma  
Minnesota (Fairview Ridges Hospital) - Extraskelatal myxoid chondrosarcoma  
Mississippi (The University of Mississippi Medical Center) - Extraskelatal myxoid chondrosarcoma  
Nebraska (Creighton University Medical Center) - Chondrosarcoma (Grade 1)  
New York (University of Buffalo Residents) - Extraskelatal myxoid chondrosarcoma  
Ohio, Toledo – Extraskelatal myxoid chondrosarcoma  
Pennsylvania (Drexel University College of Medicine Residents) - Chondrosarcoma  
Pennsylvania (Lehigh Valley Hospital) - Chondrosarcoma  
Puerto Rico (University of Puerto Rico) – Extraskelatal chondrosarcoma grade 2  
South Carolina (Medical University of South Carolina) - Extraskelatal myxoid chondrosarcoma  
Texas, Crystal Beach - Intramuscular myxoma  
Texas, Lubbock - Chondrosarcoma  
West Virginia (Greenbrier Valley Medical Center) - Chondrosarcoma  
Australia (Royal Hobart Hospital) - Extraskelatal myxoid chondrosarcoma  
Canada (Royal Prince Alfred Hospital) - Extraskelatal myxoid chondrosarcoma  
India (Sri Siddhartha Medical College) - Myxoid chondrosarcoma, thigh  
Ireland (Bon Secours Hospital) – Extraskelatal myxoid chondrosarcoma  
Ireland (Kerry General Hospital) - Extraskelatal myxoid chondrosarcoma  
Ireland (Mayo General Hospital) - Myxoid liposarcoma  
Japan - Chondroma  
Japan (Asahi General Hospital) - Chondrosarcoma  
Japan (Lions Mansion) – Soft tissue myoepithelioma/mixed tumor of soft tissue  
Oman (Khoula Hospital) – Extraskelatal myxoid chondrosarcoma  
Spain (CHIVI Hospital) - Myxoid chondrosarcoma

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

Extraskelatal myxoid chondrosarcoma, thigh

#### **Case 9 – References:**

Extraskelatal myxoid chondrosarcoma: a clinicopathologic, immunohistochemical, and molecular analysis of 18 cases.

Hum Pathol 2001 Oct; 32 (10) : p1116-24

Okamoto S; Hisaoka M, et al.

Fine-needle aspiration cytology of extraskelatal myxoid chondrosarcoma: a case report.

Diagn Cytopathol 2010 Apr; 38 (4) : p283-6

Laforga JB; Gasent JM

Extraskelatal myxoid chondrosarcoma of the thoracic wall.

J Exp Clin Cancer Res 2003 Jun;22 (2) : p333-5

D'Aprile MR; Stasolla A, et al.

Extraskelatal myxoid chondrosarcoma: a light microscopic, immunohistochemical, ultrastructural and immuno-ultrastructural study indicating neuroendocrine differentiation.

Histopathology 2001 Nov; 39 (5) : p514-24

Goh YW; Spagnolo DV, et al.

Fluorescence in situ hybridization analysis of extraskelatal myxoid chondrosarcomas using EWSR1 and NR4A3 probes.

Hum Pathol 2010 Mar; 41 (3) : p336-42  
Noguchi H; Mitsuhashi T, et al.

Extraskelatal myxoid chondrosarcoma: updated clinicopathological and molecular genetic characteristics.  
Pathol Int 2005 aug; 55 (8) : p453-63  
Hisaoaka M; Hishimoto H

The gene expression profile of extraskelatal myxoid chondrosarcoma.  
J Pathol 2005 aug; 206 (4) : p433-44  
Subramanian S; West RB; Marinelli RJ; Nielsen TO; Rubin BP; Goldblum JR; Patel RM; Zhu S, et al.

Extraskelatal myxoid chondrosarcoma with non-EWSR1-NR4A3 variant fusions correlate with rhabdoid phenotype and high-grade morphology.  
Hum Pathol 2014 May; 45 (5) : p1084-91  
Agaram NP; Zhang L, et al.

## Case No. 10, Accession No. 31902

April 2015

Fontana (Kaiser Foundation Hospital) - Pleomorphic rhabdomyosarcoma  
Glendale - Malignant fibrous histiocyoma  
Lakewood - Pleomorphic high grade liposarcoma  
Livermore - Rhabdomyosarcoma  
Oakland (ACMC) - Pleomorphic undifferentiated sarcoma (Malignant fibrous histiocyoma) (6)  
Palo Alto (VA Palo Alto) - Malignant Fibrous Histiocyoma  
San Francisco (San Francisco General Hospital) - Pleomorphic myxoid sarcoma  
San Francisco (UCSF) - Metastatic melanoma  
Santa Barbara (Miramonte Laboratory) - Myxoid malignant fibrous histiocyoma  
Woodland Hills (Kaiser Permanente) - Undifferentiated pleomorphic sarcoma  
Arkansas, El Dorado (Associated Path Lab) - Dedifferentiated liposarcoma to MFH storiofor-pleomorphic type (1)  
Malignant fibrous histiocyoma (1)  
Colorado, Fort Collins - Malignant fibrous histiocyoma  
Delaware, Newark (AFMES) - Myxofibrosarcoma  
Florida (GastroEnterology Associates of Ocala) - Malignant fibrous histiocyoma  
Georgia, Atlanta - Undifferentiated pleomorphic sarcoma  
Georgia (Wellstar Healthcare System) - High grade pleomorphic sarcoma (3)  
Illinois (Heartland Regional Medical Center) - Rhabdomyosarcoma  
Iowa (Allen Memorial Hospital) - Undifferentiated pleomorphic sarcoma  
Maryland (University of Maryland Medical System) - Undifferentiated pleomorphic sarcoma  
Minnesota (Fairview Ridges Hospital) - Undifferentiated pleomorphic sarcoma  
Mississippi (The University of Mississippi Medical Center) - Pleomorphic undifferentiated sarcoma  
Nebraska (Creighton University Medical Center) - High grade sarcoma  
New York (University of Buffalo Residents) - Undifferentiated pleomorphic sarcoma  
Ohio, Toledo - Rhabdomyosarcoma  
Pennsylvania (Drexel University College of Medicine Residents) - Pleomorphic sarcoma  
Pennsylvania (Lehigh Valley Hospital) - Undifferentiated high grade pleomorphic sarcoma  
Puerto Rico (University of Puerto Rico) - Metastatic high grade undifferentiated pleomorphic sarcoma / Rule out dedifferentiated liposarcoma  
South Carolina (Medical University of South Carolina) - Pleomorphic undifferentiated sarcoma  
Texas, Crystal Beach - Malignant fibrous histiocyoma  
Texas, Lubbock - Malignant fibrous histiocyoma  
West Virginia (Greenbrier Valley Medical Center) - Malignant fibrohistiocyoma  
Australia (Royal Hobart Hospital) - High grade myxofibrosarcoma  
Canada (Royal Prince Alfred Hospital) - Pleomorphic rhabdomyosarcoma  
India (Sri Siddartha Medical College) - Pleomorphic rhabdomyosarcoma, left axillary  
Ireland (Bon Secours Hospital) - Pleomorphic rhabdomyosarcoma

Ireland (Kerry General Hospital) - Myxoinflammatory fibroblastic sarcoma vs. pleomorphic rhabdomyosarcoma  
Ireland (Mayo General Hospital) - Dedifferentiated myxoid liposarcoma  
Japan - Rhabdomyosarcoma  
Japan (Asahi General Hospital) - Pleomorphic rhabdomyosarcoma  
Japan (Lions Mansion) – Myxoinflammatory fibroblastic sarcoma  
Oman (Khoulia Hospital) – Undifferentiated pleomorphic sarcoma  
Spain (CHIVI Hospital) - Pleomorphic rhabdomyosarcoma

**Case 10 - Diagnosis:**

Pleomorphic sarcoma, probably recurrent/metastatic malignant peripheral nerve sheath tumor (MPNST), axilla

Director's note: Additional history which was not in the previous history is that the patient had previously undergone surgery for a malignant peripheral nerve sheath tumor. The Registry apologizes for not including that information to you. Also, as in this case, rhabdomyomatous differentiation is fairly common in malignant neural tumors. (drc)

**Case 10 – References:**

Malignant peripheral nerve sheath tumor of small round cell type with pleomorphic spindle cell sarcomatous areas.  
Pathol Int 2003 Jul;53 (7) : p478-82  
Shintaku M; Nakade M; Hirose T

Relevance of MPNST cell lines as models for NF1 associated-tumors.  
J Neurooncol 2013 Sep; 114 (3) : p353-5  
Pasmant E; Luscan A, et al.

Unusual clinical tumor development in axilla.  
Prague Med Rep 2013; 114 (3) : p191-6  
Strunova M; Pavlista D, et al.

Non-mammary metastases to the breast and axilla: a study of 85 cases.  
Mod Pathol 2013 Mar; 26 (3) : p343-9  
De Lair DF; Corben AD, et al.

Adult primary pleomorphic leiomyosarcoma of forearm with axillary lymph node metastasis: a case report and literature review.  
J Cancer Res Ther 2012 Jul-Sep;8(3) : p448-50  
Gupta S; Husain N, et al.

Pleomorphic spindle cell sarcoma (PSCS) formerly known as malignant fibrous histiocytoma (MFH) : a complex malignant soft-tissue tumor.  
Musculoskelet Surg 2012 Dec; 96 (3) : p171-7  
Mankin HJ; Hornicek FJ, et al.

Prognostic value of proliferation in pleomorphic soft tissue sarcomas: a new look at an old measure.  
Hum Pathol 2012 Dec; 43 (12) : p2247-54  
Seinen JM; Jonsson M, et al.