

**California Tumor Tissue Registry's  
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***"Fibrohistiocytic lesions and neoplasms, part 2"***  
***See also November, 2009 Vol3(3)***

**Case 1**

A 10 y/o boy had a recurrent mass in the left popliteal region.

**Dx: Popliteal fibromatosis**

Santa Rosa (Santa Rosa Memorial Hospital) - Desmoid-like fibromatosis (3)  
Woodland Hills (Kaiser Permanente) - Extra-abdominal fibromatosis  
Alabama, Birmingham - Fibromatosis  
Alabama (Norwood Clinic) - Fibroma  
Arizona (Integrated Pathology) - Fibromatosis  
Arkansas (The Laboratory of Pathology) - Fibromatosis  
Georgia, Atlanta - Fibromatosis  
Kansas (Peterson Laboratory Services) - Fibromatosis  
Massachusetts, Peabody - Neurofibroma  
North Carolina (TriPath Oncology) - Fibromatosis  
Ohio, Columbus - Soft tissue, left popliteal, fibromatosis  
Texas, Victoria - EAF  
Washington, Bothell - Fibromatosis  
Canada (University of Sherbrooke) - Desmoid tumor  
Hong Kong (Hong Kong Baptist Hospital) - Fibromatosis  
The Netherlands, Amstelveen - Fibromatosis

Popliteal sarcomas: presentation, prognosis, and limb salvage. Pritsch T; Bickels J; Winberg T; Malawer MM, Clin Orthop Relat Res 2007 Feb;455:225-33.

Estrogen receptor-beta expression in extraabdominal fibromatoses: an analysis of 40 cases. Deyrup AT; Tretiakova M; Montag AG. Cancer 2006 Jan 1;106(1): p208-13.

Margins in extra-abdominal desmoid tumors: a comparative analysis. Leithner A; Gapp M; Leithner K; Radl R; Krippel P; Beham A; Windhager R. J Surg Oncol 2004 Jun 1;86(3): p152-6.

Immunohistochemical analysis of desmoid tumours. Leithner A; Gapp M; Radl R; Pascher A; Krippel P; Leithner K; Windhager R; Beham A. J Clin Pathol 2005 Nov;58(11): p1152-6.

Aggressive fibromatosis (desmoid tumors): definition, occurrence, pathology, diagnostic problems, clinical behavior, genetic background. Ferenc T; Sygut J; Kopczynski J; Mayer M; Latos-Bielenska A; Dzikowski A; Kulig A. Pol J Pathol 2006;57(1): p5-15.

The enigma of desmoid tumors. Okuno S. Curr Treat Options Oncol 2006 Nov;7(6): p438-43.

## **Case 2**

this is a nodule involving the wrist of an adult male.

### **Dx: Cellular cutaneous fibrous histiocytoma (FH/dermatofibroma)**

Santa Rosa (Santa Rosa Memorial Hospital) - Glomangioma (2); Cellular dermatofibroma (1)

Woodland Hills (Kaiser Permanente) - Cellular fibrous histiocytoma

Alabama, Birmingham - Fibrohistiocytic tumor

Alabama (Norwood Clinic) - Glomus tumor

Arizona (Integrated Pathology) - Dermatofibroma

Arkansas (The Laboratory of Pathology) - Dermatofibroma, cellular

Georgia, Atlanta - Myofibroma

Kansas (Peterson Laboratory Services) - Dermatofibroma

Massachusetts, Peabody - Glomangioma

North Carolina (TriPath Oncology) - Dermatofibroma

Ohio, Columbus - Skin, soft tissue, wrist, dermatofibroma

Texas, Victoria - CFH

Washington, Bothell - Fibrous histiocytoma

Canada (University of Sherbrooke) - Dermatofibroma, epithelioid type

Hong Kong (Hong Kong Baptist Hospital) - Fibrous histiocytoma

The Netherlands, Amstelveen - Dermatofibroma

Expression of CD163 in dermatofibroma, cellular fibrous histiocytoma, and dermatofibrosarcoma protuberans: comparison with CD68, CD34, and Factor XIIIa. Sachdev R; Sundram U. J Cutan Pathol 2006 May;33(5): p353-60.

Cutaneous and subcutaneous fibrohistiocytic tumors of intermediate malignancy: an update. Billings SD; Folpe AL. Am J Dermatopathol 2004 Apr;26(2): p141-55.

The spectrum of cutaneous lesions in rheumatoid arthritis: a clinical and pathological study of 43 patients. Magro CM; Crowson AN. J Cutan Pathol 2003 Jan;30(1): p1-10.

A study of CD117 expression in dermatofibrosarcoma protuberans and cellular dermatofibroma. Labonte S; Hanna W; Bandarchi-Chamkhaleh B. J Cutan Pathol 2007 Nov;34(11): p857-60.

Sclerotic fibroma-like dermatofibroma: an uncommon distinctive variant of dermatofibroma. Gonzalez-Vela MC; Val-Bernal JF; Martino M; Gonzalez-Lopez MA; Garcia-Alberdi E; Hermana S. Histol Histopathol 2005 Jul;20(3): p801-6.

CD10 is expressed in dermatofibromas. Lee KJ; Yang JM; Lee ES; Lee DY; Jang KT. Br J Dermatol 2006 Sep;155(3): p632-3.

## **Case 3**

A 36 y/o woman had multiple opacities on a routine CXR. The masses were asymptomatic. Six months previous a skin lesion had been removed from her arm and called "dermatofibroma."

These are two scanned slides, one from the arm and one from a wedge bx of the lung.

### **Dx: Cutaneous Fibrous Histiocytoma metastatic to lung (B9 metastasizing FH)**

Santa Rosa (Santa Rosa Memorial Hospital) - Low grad pleomorphic sarcoma (2); Fibrous histiocytoma (1)  
Woodland Hills (Kaiser Permanente) - Metastasizing dermatofibroma  
Alabama, Birmingham - Atypical fibroxanthoma  
Alabama (Norwood Clinic) - Hemangiopericytoma  
Arizona (Integrated Pathology) - Cutaneous fibrous histiocytoma, metastatic to lung  
Arkansas (The Laboratory of Pathology) - Fibrous histiocytoma  
Georgia, Atlanta - Fibrous histiocytoma/dermatofibroma  
Kansas (Peterson Laboratory Services) - Cellular fibrous histiocytoma with metastasis  
Massachusetts, Peabody - Metastatic clear cell sarcoma  
North Carolina (TriPath Oncology) - Atypical fibroxanthoma  
Ohio, Columbus - Skin, arm and lung fibrohistiocytic lesion  
Texas, Victoria - Angiomatoid FH  
Washington, Bothell - MFH  
Canada (University of Sherbrooke) - Dermatofibrosarcoma protuberans with sarcomatous transformation  
Hong Kong (Hong Kong Baptist Hospital) - Myofibromatosis  
The Netherlands, Amstelveen - Fibrous histiocytoma

Metastasizing "benign" fibrous histiocytoma of the skin: a report of two additional cases and review of the literature. Bisceglia M; Attino V; Bacchi CE. Adv Anat Pathol 2006 Mar;13(2): p89-96.

Metastasizing dermatofibroma in lung. Gu M; Sohn K; Kim D; Kim B. Ann Diagn Pathol 2007 Feb;11(1): p64-7.

Cystic fibrohistiocytic tumours presenting in the lung: primary or metastatic disease? Osborn M; Mandys V; Beddow E; Ladas G; Florio R; Sheppard MN; Fisher C; Bell SW; Travis WD; Nicholson AG. Histopathology 2003 Dec;43(6): p556-62.

### **Case 4**

A 54 y/o man had a protuberant mass on the mid back.

### **Dx: Dermatofibrosarcoma Protuberans (DFSP)**

Santa Rosa (Santa Rosa Memorial Hospital) - Dermatofibrosarcoma protuberans (3)  
Woodland Hills (Kaiser Permanente) - Dermatofibrosarcoma protuberans  
Alabama, Birmingham - Atypical fibroxanthoma  
Alabama (Norwood Clinic) - Dermatofibrosarcoma protuberans  
Arizona (Integrated Pathology) - Dermatofibrosarcoma protuberans  
Arkansas (The Laboratory of Pathology) - Dermatofibrosarcoma protuberans  
Georgia, Atlanta - Dermatofibrosarcoma protuberans  
Kansas (Peterson Laboratory Services) - Dermatofibrosarcoma protuberans  
Massachusetts, Peabody - Dermatofibrosarcoma  
North Carolina (TriPath Oncology) - Dermatofibrosarcoma protuberans  
Ohio, Columbus - Soft tissue, mid back, dermatofibrosarcoma protuberans  
Texas, Victoria - Dermatofibrosarcoma protuberans  
Washington, Bothell - Dermatofibrosarcoma protuberans  
Canada (University of Sherbrooke) - Dermatofibrosarcoma protuberans with sarcomatous transformation

Hong Kong (Hong Kong Baptist Hospital) - Dermatofibrosarcoma protuberans  
The Netherlands, Amstelveen - Dermatofibrosarcoma protuberans

A study of CD117 expression in dermatofibrosarcoma protuberans and cellular dermatofibroma. Labonte S; Hanna W; Bandarchi-Chamkhaleh B. J Cutan Pathol 2007 Nov;34(11): p857-60.

Dermatofibrosarcoma protuberans: a report on 29 patients treated by Mohs micrographic surgery with long-term follow-up and review of the literature. Snow SN; Gordon EM; Larson PO; Bagheri MM; Bentz ML; Sable DB. Cancer 2004 Jul 1;101(1): p28-38.

Molecularly targeted treatment for dermatofibrosarcoma protuberans. McArthur G. Semin Oncol 2004 Apr;31(2 Suppl 6): p30-6.

Fine-needle aspiration of primary and recurrent dermatofibrosarcoma protuberans. Klijanienko J; Caillaud JM; Lagace R. Diagn Cytopathol 2004 Apr;30(4): p261-5.

Myxoid dermatofibrosarcoma protuberans: a rare variant analyzed in a series of 23 cases. Reimann JD; Fletcher CD. Am J Surg Pathol 2007 Sep;31(9): p1371-7.

Dermatofibrosarcoma protuberans. Mendenhall WM; Zlotecki RA; Scarborough MT. Cancer 2004 Dec 1;101(11): p2503-8.

Dermatofibrosarcoma protuberans, giant cell fibroblastoma, and hybrid lesions in children: clinicopathologic comparative analysis of 28 cases with molecular data--a study from the French Federation of Cancer Centers Sarcoma Group. Terrier-Lacombe MJ; Guillou L; Maire G; Terrier P; Vince DR; de Saint Aubain Somerhausen N; Collin F; Pedetour F; Coindre JM. Am J Surg Pathol 2003 Jan;27(1): p27-39.

Giant cell fibroblastoma: an update and addition of 86 new cases from the Armed Forces Institute of Pathology, in honor of Dr. Franz M. Enzinger. Jha P; Moosavi C; Fanburg-Smith JC. Ann Diagn Pathol 2007 Apr;11(2): p81-8.

## **Case 5**

A 35 y/o man had a large skin excision which included two nodules 7.5 and 10 cm in greatest diameter. There were also multiple nodules up to 3.5 cm beneath the skin surface. Tumor margins were both well demarcated and in other areas, ill-defined.

### **Dx: Pigmented DFSP (Bednar tumor)**

Santa Rosa (Santa Rosa Memorial Hospital) - Dermatofibrosarcoma protuberans  
Woodland Hills (Kaiser Permanente) - Pigments dermatofibrosarcoma protuberans (Bednar tumor)  
Alabama, Birmingham - Dermatofibrosarcoma protuberans  
Alabama (Norwood Clinic) - Dermatofibrosarcoma protuberans  
Arizona (Integrated Pathology) - Bednar tumor (pigmented dermatofibrosarcoma protuberans)  
Arkansas (The Laboratory of Pathology) - Dermatofibrosarcoma protuberans, pigmented  
Georgia, Atlanta - Dermatofibrosarcoma protuberans  
Kansas (Peterson Laboratory Services) - Pigmented dermatofibrosarcoma protuberans

Massachusetts, Peabody - Dermatofibrosarcoma  
North Carolina (TriPath Oncology) - Pigmented dermatofibrosarcoma protuberans (Bednar tumor)  
Ohio, Columbus - Skin, soft tissue, dermatofibrosarcoma protuberans  
Texas, Victoria - Bednar's tumor  
Washington, Bothell - Dermatofibrosarcoma protuberans  
Canada (University of Sherbrooke) - Dermatofibrosarcoma protuberans  
Hong Kong (Hong Kong Baptist Hospital) - Bednar tumor  
The Netherlands, Amstelveen - Dermatofibrosarcoma protuberans

An unusual pigmented skin tumour. Bednar Tumour, dorsum of left foot (pigmented dermatofibrosarcoma protuberans). Zardawi IM; Kattampallil J; Rode J. Pathology 2004 Aug;36(4): p358-61.

Bednar tumor associated with dermal melanocytosis: melanocytic colonization or neuroectodermal multidirectional differentiation? Goncharuk V; Mulvaney M; Carlson JA. J Cutan Pathol 2003 Feb;30(2): p147-51.

Bednar tumor: report of a case with immunohistochemical and ultrastructural study. Seo IS; Goheen M; Min KW. Ultrastruct Pathol 2003 May-Jun;27(3): p205-10.

Bednar tumor: a report of two cases. Yagi Y; Ueda K; Maruyama S; Noborio R. J Dermatol 2004 Jun;31(6): p484-7.

Metastatic Bednar tumor (pigmented dermatofibrosarcoma protuberans) with fibrosarcomatous change: a case report. Suehara Y; Yazawa Y; Hitachi K. J Orthop Sci 2004;9(6): p662-5.

## **Case 6**

A 38 y/o woman presented with a right groin mass.

### **Dx: Angiomatoid Fibrous Histiocytoma (formerly angiomatoid MFH)**

Santa Rosa (Santa Rosa Memorial Hospital) - Rule out Kaposi, rule out fibrohistiocytic lesion by immunohistochemical evaluation (1); Necrotizing fibrohistiocytic lesion, nos (1); Angiomatoid fibrous histiocytoma (1)  
Woodland Hills (Kaiser Permanente) - Inflammatory pseudotumor  
Alabama, Birmingham - Inflammatory myofibroblastic tumor  
Alabama (Norwood Clinic) - Small cell lymphoma  
Arizona (Integrated Pathology) - Fibrous histiocytoma  
Arkansas (The Laboratory of Pathology) - Granulomatous lymphadenopathy with necrosis  
Georgia, Atlanta - Angiomatoid fibrous histiocytoma  
Kansas (Peterson Laboratory Services) - Inflammatory myofibroblastic tumor  
Massachusetts, Peabody - Follicular dendritic sarcoma  
North Carolina (TriPath Oncology) - Palisaded myofibroblastoma  
Ohio, Columbus - Groin, right, angiomatoid fibrous histiocytoma  
Texas, Victoria - Metastatic FH  
Washington, Bothell - Cat scratch  
Hong Kong (Hong Kong Baptist Hospital) - Angiomatoid fibrous histiocytoma  
The Netherlands, Amstelveen - Angiomatoid fibrous histiocytoma

Angiomatoid variant of fibrous histiocytoma: a case report and review of literature. Pratibha R; Ahmed S. Int J Paediatr Dent 2006 Sep;16(5): p363-9.

Angiomatoid fibrous histiocytoma with cystic structures of sweat duct origin. Koletsa T; Hytiroglou P; Semoglou C; Drevelegas A; Karkavelas G. Pathol Int 2007 Aug;57(8): p513-6.

Fine-needle aspiration cytology of angiomatoid malignant fibrous histiocytoma. Lemos MM; Karlen J; Tani E. Diagn Cytopathol 2005 Aug;33(2): p116-21.

Angiomatoid fibrous histiocytoma: a review with recent genetic findings. Thway K. Arch Pathol Lab Med 2008 Feb;132(2): p273-7.

Angiomatoid fibrous histiocytoma in an HIV-positive child. Martelli L; Collini P; Meazza C; Bianchi A; Salvini F; Zaffignani E; Favini F; Casanova M; Ferrari A. J Pediatr Hematol Oncol 2008 Mar;30(3): p242-4.

## **Case 7**

An adult man presented with a large nodule on his back.

### **Dx: DFSP with fibrosarcomatous change**

Santa Rosa (Santa Rosa Memorial Hospital) - Dermatofibrosarcoma protuberans

Woodland Hills (Kaiser Permanente) - Dermatofibrosarcoma protuberans

Alabama, Birmingham - Dermatofibrosarcoma protuberans

Alabama (Norwood Clinic) - Fibrosarcoma

Arizona (Integrated Pathology) - Fibrosarcomatous change in dermatofibrosarcoma protuberans

Arkansas (The Laboratory of Pathology) - Dermatofibrosarcoma protuberans

Georgia, Atlanta - Dermatofibrosarcoma protuberans with fibrosarcomatous transformation

Kansas (Peterson Laboratory Services) - Fibrosarcoma arising within a DFSP

Massachusetts, Peabody - Dermatofibrosarcoma

North Carolina (TriPath Oncology) - Fibrosarcoma arising in dermatofibrosarcoma protuberans

Ohio, Columbus - Soft tissue, back, dermatofibrosarcoma protuberans with sarcoma

Texas, Victoria - Vascular tumor, intermediate malignant

Washington, Bothell - Malignant fibrous histiocytoma

Canada (University of Sherbrooke) - Low grade fibromyxoid sarcoma

Hong Kong (Hong Kong Baptist Hospital) - Dermatofibrosarcoma protuberans with fibrosarcomatous changes

The Netherlands, Amstelveen - Sarcoma

The prognostic significance of fibrosarcomatous transformation in dermatofibrosarcoma protuberans. Abbott JJ; Oliveira AM; Nascimento AG. Am J Surg Pathol 2006 Apr;30(4): p436-43.

Aspiration cytology of fibrosarcomatous variant of dermatofibrosarcoma protuberans with osteoclastlike giant cells in the chest wall: a case report. Kim L; Park IS; Han JY; Kim JM; Chu YC. Acta Cytol 2005 Nov-Dec;49(6): p644-9.

Metastatic potential of dermatofibrosarcoma protuberans with fibrosarcomatous change. Minter RM; Reith JD; Hochwald SN. J Surg Oncol 2003 Mar;82(3): p201-8.

[Pulmonary metastasis of fibrosarcomatous variant of dermatofibrosarcoma protuberans: case report and review of literature]. Otani S; Ishii H; Hashinaga K; Morinaga R; Umeki K; Kishi K; Shirai R; Tokimatsu I; Hiramatsu K; Kawahar K; Kadota J. Nihon Kokyuki Gakkai Zasshi 2008 Mar;46(3): p253-7.

Transformed dermatofibrosarcoma protuberans: real time polymerase chain reaction detection of COL1A1-PDGFB fusion transcripts in sarcomatous areas. Szollosi Z; Scholtz B; Egervari K; Nemes Z. J Clin Pathol 2007 Feb;60(2): p190-4.

## **Case 8**

A 63 y/o man with a 3 month hx of aching in the left calf was found to have a 5 x 3 mass confined to the flexor hallucis longus muscle sheath. A venogram was + for deep vein thrombosis.

### **Dx: Pleomorphic sarcoma (nos) - formerly storiform-pleomorphic MFH**

Santa Rosa (Santa Rosa Memorial Hospital) - Intravascular sarcoma, rule out leiomyosarcoma (2); Inflammatory fibrosarcoma (inflammatory malignant fibrous histiocytoma) (1)

Woodland Hills (Kaiser Permanente) - Pleomorphic undifferentiated sarcoma

Alabama, Birmingham - Malignant fibrous histiocytoma

Alabama (Norwood Clinic) - Malignant fibrohistiocytoma

Arizona (Integrated Pathology) - Malignant fibrous histiocytoma

Arkansas (The Laboratory of Pathology) - Malignant fibrous histiocytoma

Georgia, Atlanta - Pleomorphic sarcoma (malignant fibrous histiocytoma)

Kansas (Peterson Laboratory Services) - Pleomorphic sarcoma (MFH)

Massachusetts, Peabody - Rhabdomyosarcoma

North Carolina (TriPath Oncology) - Malignant fibrous histiocytoma/pleomorphic sarcoma, storiform-pleomorphic type

Ohio, Columbus - Soft tissue, left calf, pleomorphic sarcoma

Texas, Victoria - Pleomorphic malignant fibrous histiocytoma

Washington, Bothell - Malignant fibrous histiocytoma

Canada (University of Sherbrooke) - Malignant fibrous histiocytoma

Hong Kong (Hong Kong Baptist Hospital) - Giant cell malignant fibrous histiocytoma

The Netherlands, Amstelveen - Pleomorphic sarcoma, nos

Diagnosis and management of pleomorphic sarcomas (so-called "MFH") in adults. Nascimento AF; Raut CP. J Surg Oncol 2008 Mar 15;97(4): p330-9.

Expression profiles in malignant fibrous histiocytomas: clues for differentiating 'spindle cell' and 'pleomorphic' subtypes. Scapolan M; Perin T; Wassermann B; Canzonieri V; Colombatti A; Italia F; Spessotto P. Eur J Cancer 2008 Jan;44(2): p298-309.

Malignant fibrous histiocytoma: between the past and the present. Al-Agha OM; Igboke AA. Arch Pathol Lab Med 2008 Jun;132(6): p1030-5.

Primary and metastatic high-grade pleomorphic sarcoma/malignant fibrous histiocytoma of the gastrointestinal tract: an approach to the differential diagnosis in a series of five cases with emphasis on myofibroblastic differentiation. Agaimy A; Gaumann A; Schroeder J; Dietmaier W; Hartmann A; Hofstaedter F; Wunsch PH; Mentzel T. Virchows Arch 2007 Nov;451(5): p949-57.



Histopathological re-classification of extremity pleomorphic soft tissue sarcoma has clinical relevance. Massi D; Beltrami G; Capanna R; Franchi A. Eur J Surg Oncol 2004 Dec;30(10): p1131-6.

[Malignant fibrous histiocytoma: pleomorphic sarcoma NOS or pleomorphic fibrosarcoma] [Das maligne fibrose Histiozytom. Undifferenziertes pleomorphes Sarkom oder pleomorphes Fibrosarkom?]. Meister P. Pathologe 2005 Mar;26(2): p127-33.

## **Case 9**

A 50 y/o male complaining of weight loss was found to have a large retroperitoneal mass which partially encased the right kidney, displacing the liver upwards. A yellow, multinodular mass was resected.

### **Dx: Inflammatory fibrosarcoma/malignant inflammatory myofibroblastic tumor (formerly inflammatory MFH)**

Santa Rosa (Santa Rosa Memorial Hospital) - Liposarcoma (2); Inflammatory fibrosarcoma (inflammatory malignant fibrous histiocytoma) (1)

Woodland Hills (Kaiser Permanente) - Pleomorphic undifferentiated sarcoma with prominent inflammation

Alabama, Birmingham - Malignant fibrous histiocytoma

Alabama (Norwood Clinic) - Adrenocortical carcinoma

Arizona (Integrated Pathology) - Inflammatory fibrosarcoma

Arkansas (The Laboratory of Pathology) - Inflammatory fibrosarcoma

Georgia, Atlanta - Inflammatory malignant fibrous histiocytoma

Kansas (Peterson Laboratory Services) - Inflammatory myofibroblastic tumor

Massachusetts, Peabody - Dedifferentiated liposarcoma

North Carolina (TriPath Oncology) - Xanthogranulomatous pyelonephritis

Ohio, Columbus - Soft tissue, retroperitoneum, sarcoma with inflammation

Texas, Victoria - Inflammatory malignant fibrous histiocytoma

Washington, Bothell - Malignant fibrous histiocytoma, inflammatory

Canada (University of Sherbrooke) - Inflammatory malignant fibrous histiocytoma

Hong Kong (Hong Kong Baptist Hospital) - Inflammatory malignant fibrous histiocytoma

The Netherlands, Amstelveen - Sarcoma

Inflammatory myofibroblastic tumor, inflammatory fibrosarcoma, and related lesions: an historical review with differential diagnostic considerations. Coffin CM; Dehner LP; Meis-Kindblom JM. Semin Diagn Pathol 1998 May;15(2): p102-10.

Inflammatory myofibroblastic tumor (inflammatory fibrosarcoma) of the bone. Watanabe K; Tajino T; Sekiguchi M; Suzuki T. Arch Pathol Lab Med 2000 Oct;124(10): p1514-7.

Inflammatory fibrosarcoma: update, reappraisal, and perspective on its place in the spectrum of inflammatory myofibroblastic tumors. Meis-Kindblom JM; Kjellstrom C; Kindblom LG. Semin Diagn Pathol 1998 May;15(2): p133-43.

Inflammatory myofibroblastic tumors of the urinary tract: a clinicopathologic study of 46 cases, including a malignant example inflammatory fibrosarcoma and a subset associated with high-grade urothelial carcinoma. Montgomery EA;



Shuster DD; Burkart AL; Esteban JM; Sgrignoli A; Elwood L; Vaughn DJ; Griffin CA; Epstein JI. Am J Surg Pathol 2006 Dec;30(12): p1502-12.

[A case report: retroperitoneal inflammatory fibrosarcoma that revealed progressive enlargement] Hirai T; Ikeda D; Sakai A. Hinyokika Kiyo 2007 Jun;53(6): p393-6.

Inflammatory malignant fibrous histiocytomas and dedifferentiated liposarcomas: histological review, genomic profile, and MDM2 and CDK4 status favour a single entity. Coindre JM; Hostein I; Maire G; Derre J; Guillou L; Leroux A; Ghnassia JP; Collin F; Pedoutour F; Aurias A. J Pathol 2004 Jul;203(3): p822-30.

## **Case 10**

A 78 y/o woman was found to have a 17 cm myxomatous mass involving the left biceps femoris muscle. Tumor involved the sciatic nerve. This material is from a left hemipelvectomy specimen.

### **Dx: Myxofibrosarcoma (formerly myxoid MFH)**

Santa Rosa (Santa Rosa Memorial Hospital) - Myxoid neurofibroma (1); Myxoid neurofibrosarcoma (2)

Woodland Hills (Kaiser Permanente) - High grade myxofibrosarcoma

Alabama, Birmingham - Myxoid malignant fibrous histiocytoma

Alabama (Norwood Clinic) - Round cell liposarcoma

Arizona (Integrated Pathology) - Myxofibrosarcoma

Arkansas (The Laboratory of Pathology) - Myxoid fibrosarcoma

Georgia, Atlanta - Myxofibrosarcoma (myxoid malignant fibrous histiocytoma)

Kansas (Peterson Laboratory Services) - Myxofibrosarcoma

Massachusetts, Peabody - Giant cell malignant fibrous histiocytoma

North Carolina (TriPath Oncology) - Malignant fibrous histiocytoma/pleomorphic sarcoma, myxoid type

Ohio, Columbus - Soft tissue, left biceps femoris, myxoid/pleomorphic

Texas, Victoria - Myxofibrosarcoma

Washington, Bothell - Myxoid malignant fibrous histiocytoma

Canada (University of Sherbrooke) - Malignant giant cell tumor

Hong Kong (Hong Kong Baptist Hospital) - High grade myxofibrosarcoma

The Netherlands, Amstelveen - Giant cell sarcoma

Myxofibrosarcoma (myxoid malignant fibrous histiocytoma) showing cutaneous presentation: report of two cases. Fujimura T; Okuyama R; Terui T; Okuno K; Masu A; Masu T; Chiba S; Kunii T; Tagami H; Aiba S. J Cutan Pathol 2005 Aug;32(7): p512-5.

Low-grade myxofibrosarcoma: a clinicopathologic analysis of 49 cases treated at a single institution with simultaneous assessment of the efficacy of 3-tier and 4-tier grading systems. Huang HY; Lal P; Qin J; Brennan MF; Antonescu CR. Hum Pathol 2004 May;35(5): p612-21.

Myxofibrosarcomas contain large numbers of infiltrating immature dendritic cells. Soilleux EJ; Rous B; Love K; Vowler S; Morris LS; Fisher C; Coleman N. Am J Clin Pathol 2003 Apr;119(4): p540-5.

Epithelioid variant of myxofibrosarcoma: expanding the clinicomorphologic spectrum of myxofibrosarcoma in a series of 17 cases. Nascimento AF; Bertoni F; Fletcher CD. Am J Surg Pathol 2007 Jan;31(1): p99-105.

Spectrum of low-grade fibrosarcomas: a comparative ultrastructural analysis of low-grade myxofibrosarcoma and fibromyxoid sarcoma. Antonescu CR; Baren A. Ultrastruct Pathol 2004 Sep-Dec;28(5-6): p321-32.

### **Case 11 (Bonus)**

A 70 y/o woman was re-excised for a recurrent adnexal mass. The current tumor grew 12 cm in a 6 month period. Lung mets were present.

### **Dx: Giant cell sarcoma (formerly giant cell MFH)**

Santa Rosa (Santa Rosa Memorial Hospital) - Malignant giant cell tumor of soft tissue (3)  
Woodland Hills - Malignant giant cell tumor

Successful treatment of retroperitoneal giant cell-type malignant fibrous histiocytoma in a 5-year-old boy. Caglar K; Gungor S; Akansoy S; Sakalli U; Orhan D; Caglar M. Turk J Pediatr 2007 Jul-Sep;49(3): p307-11.

Stromal sarcoma with features of giant cell malignant fibrous histiocytoma. Kijima Y; Umekita Y; Yoshinaka H; Taguchi S; Owaki T; Funasako Y; Sakamoto A; Yoshida H; Aikou T. Breast Cancer 2007;14(2): p239-44.

Malignant fibrous histiocytoma, giant cell type, of the breast mimicking metaplastic carcinoma. A case report. Wiriosuparto S; Krassilnik N; Gologan A; Cohen JM; Wenig B. Acta Cytol 2003 Jul-Aug;47(4): p673-8.

Undifferentiated carcinoma with osteoclast-like giant cells arising in a mucinous cystic neoplasm of the pancreas. Hirano H; Morita K; Tachibana S; Okimura A; Fujisawa T; Ouchi S; Nakasho K; Ueyama S; Nishigami T; Terada N. Pathol Int 2008 Jun;58(6): p383-9.