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*"Proliferative and Fibroblastic Disorders"*

**Case 1:**

A 20 y/o woman presented with a rapidly growing right face mass. The surgeon says that it was definitely a "tumor". When excised the nodule was 1.5 cm and somewhat mucoid.

Santa Barbara (Miramonte Laboratory) - Nodular fasciitis  
Santa Rosa (Santa Rosa Memorial Hospital) - Nodular fasciitis (3)  
Woodland Hills (Kaiser Permanente) - Nodular fasciitis  
Arkansas (The Laboratory of Pathology, P.A.) - Nodular fasciitis  
Georgia, Atlanta - Nodular fasciitis  
Idaho, Boise - Nodular fasciitis  
Illinois, Oak Brook - Nodular fasciitis  
Louisiana, Shreveport (LSU Health Shreveport) - Nodular fasciitis  
Maryland, Baltimore - Nodular fasciitis  
New Mexico, Albuquerque - Nodular fasciitis  
Ohio, Columbus - Soft tissue, right face, Nodular fasciitis  
Pennsylvania (Drexel University College of Medicine) - Nodular fasciitis  
Texas, Victoria - Nodular fasciitis  
Hong Kong (Hong Kong Baptist Hospital) - Nodular fasciitis  
India, Kochi - Nodular fasciitis  
The Netherlands, Amstelveen - Nodular fasciitis

**Dx:**

Nodular fasciitis, face

Director's note: Note the rapid growth, the relatively young age of the patient, the surgeons insistence that it's malignant. Also see the myxoid "tearing apart" of the cells. (drc)

**Refs:**

Intradermal nodular fasciitis of the face.

J Dermatol 2002 May;29(5): p310-4

Kang SK; Kim HH; Ahn SJ; Choi JH; Sung KJ; Moon KC; Koh JK

Nodular fasciitis of the forehead in a pediatric patient.

Dermatol Surg 2003 Aug;29(8): p867-8

Handa Y; Asai T; Tomita Y

Intradermal nodular fasciitis: a rare lesion analyzed in a series of 24 cases.

Am J Surg Pathol 2010 Sep;34(9): p1377-81

de Feraudy S; Fletcher CD

Intraarticular nodular fasciitis--a rare lesion: clinicopathologic analysis of a series.

Am J Surg Pathol 2006 Feb;30(2): p237-41

Hornick JL; Fletcher CD

Nodular fasciitis: diagnosis by fine needle aspiration biopsy.  
Acta Cytol 2004 Jul-Aug;48(4): p473-7  
Kong CS; Cha I

### **Case 2:**

This 37 y/o woman was first seen complaining painful swelling over the mid-anterior aspect of the right forearm. It was thought to be an abscess but following attempts at aspiration and small incision, she had surgery. The excised mass was 2 x 0.5 x 1.5 cm inches. It was red-tan with fascia at one margin and yellow-tan at the opposite margin. The cut surface was gray-tan, rubbery, and bordered by pink-tan tissue.

Santa Barbara (Miramonte Laboratory) - Rhabdomyoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Proliferative fasciitis / Proliferative myositis (2)  
Woodland Hills (Kaiser Permanente) - Proliferative fasciitis  
Arkansas (The Laboratory of Pathology, P.A.) - Proliferative fasciitis  
Georgia, Atlanta - Proliferative fasciitis  
Idaho, Boise - Proliferative fasciitis  
Illinois, Oak Brook - Proliferative fasciitis  
Louisiana, Shreveport (LSU Health Shreveport) - Proliferative fasciitis  
Maryland, Baltimore - Proliferative fasciitis  
New Mexico, Albuquerque - Proliferative fasciitis  
Ohio, Columbus - Soft tissue, right forearm, Proliferative fasciitis  
Pennsylvania (Drexel University College of Medicine) - Proliferative fasciitis  
Texas, Victoria - Proliferative fasciitis  
Hong Kong (Hong Kong Baptist Hospital) - Proliferative fasciitis  
India, Kochi - Proliferative fasciitis  
The Netherlands, Amstelveen - Proliferative fasciitis

### **Dx:**

Proliferative fasciitis, forearm

### **Refs:**

Proliferating myositis and proliferating fasciitis: benign lesions often misdiagnosed as sarcomas.

Ceylon Med J 2005 Dec;50(4): p169-70

Jayawickrama MM; Jayasekara HR; de Silva MV

Intradermal proliferative fasciitis.

J Cutan Pathol 2011 Oct;38(10): p846-7

Fleming MG; Sharata HH

Pseudosarcomas of soft tissue.

Arch Pathol Lab Med 2008 Apr;132(4): p579-86

Rosenberg AE

Fine needle aspiration cytology of pseudosarcomatous reactive proliferative lesions of soft tissue.

Acta Cytol 2002 Nov-Dec;46(6): p1049-55

Wong NL

Intradermal proliferative fasciitis in childhood: a potential diagnostic pitfall.

J Cutan Pathol 2011 Jan;38(1): p59-62  
Magro G; Michal M; Alaggio R; D'Amore E

### **Case 3:**

A 75 y/o woman had a rapidly growing mass on the left side of the rib cage. At surgery, it measured 3.0 cm.

Santa Barbara (Miramonte Laboratory) - Rhabdomyosarcoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Proliferative myositis (3)  
Woodland Hills (Kaiser Permanente) - Proliferative myositis  
Arkansas (The Laboratory of Pathology, P.A.) - Proliferative myositis  
Georgia, Atlanta - Proliferative myositis  
Idaho, Boise - Proliferative myositis  
Illinois, OakBrook - Proliferative myositis  
Louisiana, Shreveport (LSU Health Shreveport) - Fasciitis  
Maryland, Baltimore - Proliferative fasciitis/myositis  
New Mexico, Albuquerque - Proliferative myositis  
Ohio, Columbus - Soft tissue, left ribs, proliferative myositis  
Pennsylvania (Drexel University College of Medicine) - Proliferative myositis  
Texas, Victoria - Proliferative myositis  
Hong Kong (Hong Kong Baptist Hospital) - Proliferative myositis  
India, Kochi - Proliferative myositis  
The Netherlands, Amstelveen - Reactive?

### **Dx:**

Proliferative myositis, left rib cage

### **Refs:**

Proliferative myositis: a rare pseudosarcoma of the chest wall.  
Ann Thorac Surg 2002 Apr;73(4): p1296-8  
Kent MS; Flieder DB; Port JL; Altorki NK

Pseudosarcomatous fasciitis and myositis: diagnosis by fine-needle aspiration cytology.  
Am J Clin Pathol 2009 Dec;132(6): p857-65  
Wong NL; Di F

Proliferative myositis with bone/osteoid formation.  
Pol J Pathol 2009;60(3): p144-6  
Rys J; Gruchala A; Korobowicz E

Proliferative myositis: a rare pseudomalignant tumor of the head and neck.  
Arch Otolaryngol Head Neck Surg 2008 Apr;134(4): p437-40  
Fauser C; Nahrig J; Niedermeyer HP; Arnold W

Proliferating myositis and proliferating fasciitis: benign lesions often misdiagnosed as sarcomas.  
Ceylon Med J 2005 Dec;50(4): p169-70  
Jayawickrama MM; Jayasekara HR; de Silva MV

### **Case 4:**

This was a dorsal right wrist tumor from a 70 y/o man. It was lobular, 4.0 x 2.0 x 2.0 cm, firm, white, without hemorrhage or necrosis.

Santa Barbara (Miramonte Laboratory) - Ganglion  
Santa Rosa (Santa Rosa Memorial Hospital) - Fibroma of tendon sheath (3)  
Woodland Hills (Kaiser Permanente) - Desmoplastic fibroblastoma  
Arkansas (The Laboratory of Pathology, P.A.) - Fibroma of tendon sheath  
Georgia, Atlanta - Fibroma of tendon sheath  
Idaho, Boise - Fibroma of tendon sheath  
Illinois, Oak Brook - Fibroma of tendon sheath  
Louisiana, Shreveport (LSU Health Shreveport) - Fibroma  
Maryland, Baltimore - Fibroma of tendon sheath  
New Mexico, Albuquerque - Fibroma of tendon sheath  
Ohio, Columbus - Soft tissue, right dorsal wrist, fibroma  
Pennsylvania (Drexel University College of Medicine) - Fibroma  
Texas, Victoria - Fibroma of tendon sheath  
Hong Kong (Hong Kong Baptist Hospital) - Fibromatosis  
India, Kochi - Fibroma of tendon sheath of wrist  
The Netherlands, Amstelveen - Fibroma

**Dx:**

Tenosynovial fibroma/Fibroma of tendon sheath, wrist

**Refs:**

Fibroma of a tendon sheath at the wrist: a rare cause of compression of the median nerve.

Scand J Plast Reconstr Surg Hand Surg 2004;38(5): p314-6

Garrido A; Lam WL; Stanley PR

Intraarticular fibroma of the tendon sheath in the wrist.

J Hand Surg Eur Vol 2007 Dec;32(6): p723

Degreef I; Sciort R; De Smet L

Intraarticular fibroma of the tendon sheath in the knee.

Clin Orthop Relat Res 2005 Oct;439:280-5

Takakubo Y; Fukushima S, et al.

Intra-articular fibroma of tendon sheath involving the scapholunate and radiocarpal joints.

Skeletal Radiol 2006 Aug;35(8): p599-602

Athwal GS; Bueno RA, et al.

Mineralized fibroma of the tendon sheath presenting as a bursitis.

Skeletal Radiol 2008 Dec;37(12): p1141-5

Le Corroller T; Bouvier-Labit C, et al.

**Case 5:**

A 16-year-old young woman presented with a six month history of a posterior left thigh nodule. The mass was associated with mild pain and swelling. Surgery revealed a 3 cm well-defined and partially encapsulated nodule without apparent involvement of adjacent muscle.

Santa Barbara (Miramonte Laboratory) - Proliferative myositis

Santa Rosa (Santa Rosa Memorial Hospital) - Nodular fasciitis (3)  
Woodland Hills (Kaiser Permanente) - Intramuscular myxoma  
Arkansas (The Laboratory of Pathology, P.A.) - Nodular fasciitis  
Georgia, Atlanta - Nodular fasciitis  
Idaho, Boise - Nodular fasciitis  
Illinois, Oak Brook - Nodular fasciitis  
Louisiana, Shreveport (LSU Health Shreveport) - Fasciitis with giant cells  
Maryland, Baltimore - Nodular fasciitis with giant cells  
New Mexico, Albuquerque - Giant cell fibroblastoma  
Ohio, Columbus - Soft tissue, left posterior thigh, nodular fasciitis  
Pennsylvania (Drexel University College of Medicine) - Rhabdomyosarcoma  
Texas, Victoria - Nodular fasciitis  
Hong Kong (Hong Kong Baptist Hospital) - Nodular fasciitis  
India, Kochi - Nodular fasciitis with giant cells  
The Netherlands, Amstelveen - Nodular fasciitis

**Dx:**

Nodular fasciitis with giant cells, thigh

See also: CTTR COTM, Vol 13, Jan 2011, [www.cttr.org](http://www.cttr.org).

**Refs:**

[Intramuscular nodular fasciitis--a clinicopathological study with emphasis on myogenic giant cells]  
Pathologie 2006 May;27(3): p198-203  
Hansen T; Katenkamp K; Katenkamp D

Also see references on Case 1

**Case 6:**

A 70 y/o man suffered from right hand numbness and tingling for several years. Symptoms awakened him at night. There were no issues with grip strength or dropping things. X-rays showed advanced degeneration at the first carpometacarpal articulation. A benign appearing 6 mm cystic lesion was within the third metacarpal head. Although there was not a discrete soft tissue mass, both the MRI and CT showed one to be present.

Santa Barbara (Miramonte Laboratory) - Juxta-articular myxoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Juxta-articular myxoma/Ganglion cyst vs. Juxta-articular myxoma (2)  
Woodland Hills (Kaiser Permanente) - Neurothekeoma  
Arkansas (The Laboratory of Pathology, P.A.) - Ganglion cyst  
Georgia, Atlanta - Villonodular synovitis  
Idaho, Boise - Ganglion cyst  
Illinois, Oak Brook - Ganglion cyst  
Louisiana, Shreveport (LSU Health Shreveport) - Ganglion cyst  
Maryland, Baltimore - Ganglion cyst  
New Mexico, Albuquerque - Ganglion cyst  
Ohio, Columbus - Soft tissue/bone, third metacarpal, ganglion cyst  
Pennsylvania (Drexel University College of Medicine) - Myxoma  
Texas, Victoria - Ganglion cyst  
Hong Kong (Hong Kong Baptist Hospital) - Pseudotumor  
India, Kochi - Ganglion cyst of metacarpal head and soft tissue  
The Netherlands, Amstelveen - Ganglion

**Dx:**

Ganglion cyst causing carpal tunnel syndrome, third metacarpal head and adjacent soft tissue

**Refs:**

Relationship between dorsal ganglion cysts of the wrist and intraosseous ganglion cysts of the carpal bones.

Acta Orthop Belg 2005 Oct;71(5): p535-9

Van den Dungen S; Marchesi S; Ezzedine R; Bindou D; Lorea P

Ganglion cysts of the wrist : a prospective study of a simple outpatient management.

Acta Orthop Belg 2005 Oct;71(5): p528-34

Singhal R; Angmo N; Gupta S; Kumar V; Mehtani A

Multiple ganglion cyst formation on a flexor tendon after surgical release of a trigger finger.

Am J Orthop (Belle Mead NJ 2006 May;35(5): p237-9

Pannunzio M; Dorf E; Chhabra B

Morphology and topography of intraosseous ganglion cysts in the carpus: an anatomic, histopathologic, and magnetic resonance imaging correlation study.

J Hand Surg Am 2003 Jan;28(1): p52-61

Schrank C; Meirer R; Stabler A; Nerlich A; Reiser M; Putz R

Use of routine histologic evaluation of carpal ganglions.

J Hand Surg Am 2006 Feb;31(2): p284-8

McKeon K; Boyer MI; Goldfarb CA

**Case 7:**

A 2 y/o boy presented with multiple cutaneous nodules and had gingival hypertrophy. Most of the subcutaneous tumors involved the trunk and arms. They were painless. Surgical excision of this particular nodule involving the forearm revealed a 1.2 cm well circumscribed mass with a uniform, white-gray surface.

Santa Barbara (Miramonte Laboratory) - Neurofibroma

Santa Rosa (Santa Rosa Memorial Hospital) - Gardner fibroma

Woodland Hills (Kaiser Permanente) - Neurofibroma

Arkansas (The Laboratory of Pathology, P.A.) - Hyaline fibromatosis

Georgia, Atlanta - Myofibromatosis

Idaho, Boise - Hyaline fibromatosis

Illinois, Oak Brook - Hyaline fibromatosis

Louisiana, Shreveport (LSU Health Shreveport) – Juvenile Hyaline fibromatosis

Maryland, Baltimore - Juvenile Hyaline fibromatosis

New Mexico, Albuquerque - Abdominal desmoid

Ohio, Columbus – Soft tissue, forearm, hyalinized fibroma

Pennsylvania (Drexel University College of Medicine) – Juvenile Hyaline fibromatosis

Texas, Victoria – Juvenile fibrin fibromatosis

Hong Kong (Hong Kong Baptist Hospital) –

India, Kochi - Hyaline fibromatosis of trunk and arm

The Netherlands, Amstelveen - Myxoid changes??

**Dx:**

Hyaline fibromatosis, trunk and arms

**Refs:**

Juvenile hyaline fibromatosis and infantile systemic hyalinosis: a unifying term and a proposed grading system.

J Am Acad Dermatol 2009 Oct;61(4): p695-700

Nofal A; Sanad M, et al.

Juvenile hyaline fibromatosis and infantile systemic hyalinosis overlap associated with a novel mutation in capillary morphogenesis protein-2 gene.

Am J Dermatopathol 2007 Feb;29(1): p99-103

Antaya RJ; Cajaiba MM, et al.

Fine needle aspiration cytology of juvenile hyaline fibromatosis: a case report.

Acta Cytol 2007 Jul-Aug;51(4): p624-6

Geethamani V; Ravindra S; Reddy VV

The gene for juvenile hyaline fibromatosis maps to chromosome 4q21.

Am J Hum Genet 2002 Oct;71(4): p975-80

Rahman N; Dunstan M, et al.

Gingival hyperplasia associated with juvenile hyaline fibromatosis: a case report and review of the literature.

J Oral Maxillofac Surg 2010 Oct;68(10): p2604-8

El-Maaytah M; Jerjes W, et al.

Calcospherules associated with juvenile hyaline fibromatosis.

Am J Dermatopathol 2003 Feb;25(1): p53-6

Ko CJ; Barr RJ

**Case 8:**

A 28 y/o G2p2a0 presented with this lower anterior abdominal mass. She had had a C-section for her second child.

Santa Barbara (Miramonte Laboratory) - Desmoid

Santa Rosa (Santa Rosa Memorial Hospital) - Desmoid (3)

Woodland Hills (Kaiser Permanente) - Desmoid tumor

Arkansas (The Laboratory of Pathology, P.A.) - Desmoid tumor

Georgia, Atlanta - Fibromatosis

Idaho, Boise - Fibromatosis

Illinois, OakBrook - Abdominal fibromatosis

Louisiana, Shreveport (LSU Health Shreveport) - Fibromatosis, abdominal wall

Maryland, Baltimore - Fibromatosis (Desmoid)

New Mexico, Albuquerque - Abdominal Desmoid

Ohio, Columbus - Soft tissue, low anterior abdomen, Desmoid (fibromatosis)

Pennsylvania (Drexel University College of Medicine) - Desmoid fibromatosis

Texas, Victoria - Desmoid tumor

Hong Kong (Hong Kong Baptist Hospital) - Fibromatosis

India, Kochi - Desmoid fibromatosis of abdominal wall

The Netherlands, Amstelveen - Fibromatosis

**Dx:**

Fibromatosis (Desmoid tumor), abdominal wall

**Refs:**

Desmoid tumor arising at the colostomy site after abdominoperineal resection for rectal carcinoma: report of a case.

Dis Colon Rectum 2006 Sep;49(9): p1445-8

Oguz M; Bedirli A, et al.

Giant desmoid tumor of the abdominal wall associated with familial adenomatous polyposis.

Tumori 2003 May-Jun;89(3): p331-2

Marone U; Amore A, et al.

Immunohistochemical analysis of desmoid tumours.

J Clin Pathol 2005 Nov;58(11): p1152-6

Leithner A; Gapp M, et al.

Evidence for genetic predisposition to desmoid tumours in familial adenomatous polyposis independent of the germline APC mutation.

Sturt NJ; Gallagher MC, et al.

Desmoid tumors: clinical features and treatment options for advanced disease.

Oncologist 2011;16(5): p682-93

Kasper B; Strobel P; Hohenberger P

Evaluation of estrogen receptor alpha, estrogen receptor beta, progesterone receptor, and cKIT expression in desmoids tumors and their role in determining treatment options.

Biosci Trends 2010 Feb;4(1): p25-30

Santos GA; Cunha IW, et al.

**Case 9:**

A 54 y/o man developed a mass of his left arm. It was excised and diagnosed as a schwannoma. He now presented with a recurrent subcutaneous mass at the same site.

S100 Negative

CD68 Positive

CK Cocktail Negative

CAM5.2 Negative

Santa Barbara (Miramonte Laboratory) - Granulomata favor coccidioidomycosis

Santa Rosa (Santa Rosa Memorial Hospital) - Necrobiotic nodules r/o rheumatoid nodules / Foreign body giant cell gradient reaction, NOS / Granulomatous inflammation r/o Neurobiosis lipoidiavs rheumatoid nodule

Woodland Hills (Kaiser Permanente) - Low grade fibromyxoid sarcoma

Arkansas (The Laboratory of Pathology, P.A.) - Giant cell tumor of tendon sheath

Georgia, Atlanta - Palisaded granulomas suggestive of rheumatoid nodules

Idaho, Boise - Plexiform fibrohistiocytic tumor

Illinois, OakBrook - Granuloma annulare

Louisiana, Shreveport (LSU Health Shreveport) - Fibrohistiocytic tumor  
Maryland, Baltimore - Plexiform fibrohistiocytic tumor  
New Mexico, Albuquerque - Palisaded granulomas  
Ohio, Columbus - Soft tissue, left arm, palisaded granulomata consistent with rheumatoid nodule  
Pennsylvania (Drexel University College of Medicine) - Rheumatoid nodule  
Texas, Victoria - Hyalinizing spindle cell tumor with giant rosettes  
Hong Kong (Hong Kong Baptist Hospital) - Necrobiotic granulomas  
India, Kochi - Plexiform fibrous histiocytoma of arm  
The Netherlands, Amstelveen - Fibrohistiocytic tumor

**Dx:**

Plexiform fibrohistiocytic tumor, arm

**Refs:**

Features of plexiform fibrohistiocytic tumor in skin punch biopsies: a retrospective study of 6 cases.

Am J Dermatopathol 2011 Aug;33(6): p551-6

Jacobson-Dunlop E; White CR; Mansoor A

Fine-needle aspiration cytology features of a recurring plexiform fibrohistiocytic tumor in the upper limb and review of the literature.

Diagn Cytopathol 2011 Jan;39(1): p49-53

Chou S; Howle J; Chandraratnam E; Achan A

Neurothekeoma and plexiform fibrohistiocytic tumor: mere histologic resemblance or histogenetic relationship?

Am J Surg Pathol 2009 Jun;33(6): p905-13

Jaffer S; Ambrosini-Spaltro A; Mancini AM; Eusebi V; Rosai J

Plexiform fibrohistiocytic tumor: a brief review.

Arch Pathol Lab Med 2007 Jul;131(7): p1135-8

Taher A; Pushpanathan C

Cellular neurothekeoma: detailed characterization in a series of 133 cases.

Am J Surg Pathol 2007 Mar;31(3): p329-40

Hornick JL; Fletcher CD

Cellular neurothekeoma with a plexiform morphology: a case report with a discussion of the plexiform lesions of the skin.

J Cutan Pathol 2007 Mar;34(3): p264-9

Alkhalidi H; Ghazarian D

**Case 10:**

A 76-year-old male had a 4 cm infrascapular soft tissue mass removed concurrently with his squamous cell carcinoma of the lung. The patient has worked as a security guard for the past nine years (no work history prior to 67 year of age is available).

Santa Barbara (Miramonte Laboratory) - Elastofibroma

Santa Rosa (Santa Rosa Memorial Hospital) - Elastofibroma (3)

Woodland Hills (Kaiser Permanente) - Elastofibroma

Arkansas (The Laboratory of Pathology, P.A.) - Elastofibroma  
Georgia, Atlanta - Elastofibroma  
Idaho, Boise - Elastofibroma  
Illinois, Oak Brook - Elastofibroma  
Louisiana, Shreveport (LSU Health Shreveport) - Elastofibroma  
Maryland, Baltimore - Elastofibroma  
New Mexico, Albuquerque - Elastofibroma  
Ohio, Columbus - Soft tissue, infrascapular, Elastofibroma dorsi  
Pennsylvania (Drexel University College of Medicine) - Elastofibroma  
Texas, Victoria - Elastofibroma  
Hong Kong (Hong Kong Baptist Hospital) - Elastofibroma  
India, Kochi - Elastofibroma of infrascapular area  
The Netherlands, Amstelveen - Elastofibroma

**Dx:**

Elastofibroma, infrascapular

**Refs:**

Elastofibroma: a subscapular mass.  
Am J Surg 2008 Jul;196(1): p93-4  
Majeski J

Elastofibroma dorsi diagnosed by fine needle aspiration cytology.  
Acta Cytol 2008 Mar-Apr;52(2): p264-6  
Vera-Alvarez J; Garcia-Prats MD, et al.

Elastofibroma: cytologic findings using fine needle aspiration.  
Acta Cytol 2007 May-Jun;51(3): p497-9  
Munoz Arias G; Gonzalez-Campora R, et al.

Subscapular elastofibroma intermingled with adipose tissue: variant type of elastofibroma or lipoma?  
Ann Diagn Pathol 2005 Dec;9(6): p327-9  
Erkilic S; Kocer NE; Sivrikoz C

Vimentin, smooth muscle actin, desmin, S-100 protein, p53, and estrogen receptor expression in elastofibroma and nodular fasciitis.  
Ann Diagn Pathol 2002 Apr;6(2): p94-9  
Kayaselcuk F; Demirhan B, et al.

