

**California Tumor Tissue Registry's
Subscription "C" - Vol 4 (6)
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"Fatty Tumors"
[for more fatty tumors see Sept. 2010 - 4(1)]

Case 1

35 y/o woman with a leaky breast prosthesis.

Dx:

Silicone granuloma, breast

The history of injectable silicone fluids for soft-tissue augmentation.
Plast Reconstr Surg 2007 Dec;120(7): p2034-40; discussion 2041-3
Chasan PE

Silicone granulomas and sarcoidosis.
Arch Dermatol 2005 Jul;141(7): p904
Marcoval J; Mana J

A leaking breast prosthesis presenting as an abdominal mass.
Br J Radiol 2004 Sep;77(921): p790-1
Puckett MA; De Friend D; Williams MP; Roobottom CA

Liquid injectable silicone: a review of its history, immunology, technical considerations, complications, and potential.
Plast Reconstr Surg 2006 Sep;118(3 Suppl): p77S-84S
Narins RS; Beer K

Spread of silicone to axillary lymph nodes after high cohesive gel silicone implant rupture.
Plast Reconstr Surg 2008 Dec;122(6): p221e-222e
Accurso A; Rocco N; Feleppa C; Palumbo A; D'Andrea F

Silicone lymphadenopathy: an unusual cause of internal mammary lymph node enlargement.
Breast J 2008 Sep-Oct;14(5): p502-3
Ganau S; Tortajada L; Rodriguez X; Gonzalez G; Sentis M

Surgical reconstruction after liquid silicone injection for penile augmentation.
Plast Reconstr Surg 2006 Apr 15;117(5): p1660-1
Cavalcanti AG; Hazan A; Favorito LA

Case 2

72 y/o woman with a mass of the left posterior thigh just beneath the gluteal fold. The mass had been present for many years but over the past two years was slowly increasing in size. It was moveable and was located in the subcutis. It measured 5 x 4 x 2.5 cm and appeared partly encapsulated and grossly had areas of myxoid degeneration.

Dx:**Atypical lipoma, thigh**

Deep-seated ordinary and atypical lipomas: histopathology, cytogenetics, clinical features, and outcome in 215 tumours of the extremity and trunk wall.

J Bone Joint Surg Br 2008 Jul;90(7): p929-33

Billing V; Mertens F; Domanski HA; Rydholm A

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

Clinical outcomes of deep atypical lipomas (well-differentiated lipoma-like liposarcomas) of the extremities.

ANZ J Surg 2005 Sep;75(9): p803-6

Sommerville SM; Patton JT; Luscombe JC; Mangham DC; Grimer RJ

Atypical lipomatous tumor/well-differentiated liposarcoma of the extremity and trunk wall: importance of histological subtype with treatment recommendations.

Ann Surg Oncol 2004 Jan;11(1): p78-84

Kooby DA; Antonescu CR; Brennan MF; Singer S

Deep-seated, well differentiated lipomatous tumors of the chest wall and extremities: the role of cytogenetics in classification and prognostication.

Cancer 2005 Jan 15;103(2): p409-16

Bassett MD; Schuetze SM; Distèche C; Norwood TH; Swisshelm K; Chen X;

Bruckner J; Conrad EU; Rubin BP

Case 3

A 48 y/o man had a rapidly growing mass in the perineal area. The mass measured 7 cm.

Dx:**WD Liposarcoma, perineal region**

Atypical subcutaneous fatty tumors.

Adv Anat Pathol 2000 Mar;7(2): p94-9

Challis D

Well-differentiated liposarcoma (atypical lipomatous tumors).

Semin Diagn Pathol 2001 Nov;18(4): p258-62

Laurino L; Furlanetto A; Orvieto E; Dei Tos AP

Well-differentiated giant scrotal liposarcoma: case presentation and management.

Andrologia 2008 Jun;40(3): p200-2

Sighinolfi MC; De Stefani S; Micali S; Saredi G; Fidanza F; Dotti A; Reggiani

Bonetti L; De Gaetani C; Bianchi G

Clinical outcomes of deep atypical lipomas (well-differentiated lipoma-like liposarcomas) of the extremities.

ANZ J Surg 2005 Sep;75(9): p803-6

Sommerville SM; Patton JT; Luscombe JC; Mangham DC; Grimer RJ

Diagnosis and management of lipomatous tumors.

J Surg Oncol 2008 Mar 15;97(4): p298-313

Dalal KM; Antonescu CR; Singer S

Liposarcoma: new entities and evolving concepts.

Ann Diagn Pathol 2000 Aug;4(4): p252-66

Dei Tos AP

Case 4

A 31 y/o female presented with a 6 month history of an 8 cm mass in the right femoral triangle.

Dx:

Myxoid Liposarcoma, femoral triangle

Myxoid and round cell liposarcoma: a spectrum of myxoid adipocytic neoplasia.

Semin Diagn Pathol 2001 Nov;18(4): p267-73

Orvieto E; Furlanetto A; Laurino L; Dei Tos AP

Long-term follow up of pure myxoid liposarcomas with special reference to local recurrence and progression to round cell lesions.

Pathol Int 1999 Aug;49(8): p710-5

Fukuda T; Oshiro Y; Yamamoto I; Tsuneyoshi M

Myxoid liposarcoma--the frequency and the natural history of nonpulmonary soft tissue metastases.

Ann Surg Oncol 1999 Jun;6(4): p389-94

Spillane AJ; Fisher C; Thomas JM

Vulvar myxoid liposarcoma.

Taiwan J Obstet Gynecol 2007 Sep;46(3): p293-4

Wu TC; Tarn JJ

Myxoid/round cell and pleomorphic liposarcomas: prognostic factors and survival in a series of patients treated at a single institution.

Cancer 2007 Jun 15;109(12): p2522-31

Fiore M; Grosso F, et al.

Myxoid liposarcoma.

Diagn Cytopathol 2007 May;35(5): p283-4

Pantanowitz L; Otis CN

Case 5

A 79 y/o hypertensive woman was admitted for RUQ pain, and vomiting. 10 yrs earlier she had surgery for a left breast ca with subsequent development of left arm edema. A mass was found just below the umbilicus. At surgery it was 6 cm, multinodular, and involved the retroperitoneum.

Dx:

Metastatic breast carcinoma to retroperitoneal liposarcoma ("collision tumor")

No references found for this occurrence in the past 15 years (back to 1995).

Case 6

A 30 y/o woman had painless swelling in the foot for several months. The clinical impression was of a ganglion cyst. Surgery found a diffusely spreading tumor extending from the sole to the dorsum (between the metatarsals). Seventy grams of mucinous, pale-grey tissue were removed.

Dx:

Myxoid and round cell liposarcoma, foot

Myxoid/round cell and pleomorphic liposarcomas: prognostic factors and survival in a series of patients treated at a single institution.

Cancer 2007 Jun 15;109(12): p2522-31

Fiore M; Grosso F, et al.

Cytomorphological features of combined myxoid and round cell liposarcoma--a case report.

Indian J Pathol Microbiol 2005 Jul;48(3): p396-8

Chowdhury N; Pai RR; Lobo FD

Differential sensitivity of liposarcoma subtypes to chemotherapy.

Eur J Cancer 2005 Dec;41(18): p2853-60

Jones RL; Fisher C; Al-Muderis O; Judson IR

Clinicopathologic prognostic factors in myxoid liposarcoma: a retrospective study of 49 patients with long-term follow-up.

Ann Surg Oncol 2007 Jan;14(1): p222-9

ten Heuvel SE; Hoekstra HJ, et al.

Myxoid and round cell liposarcoma: a spectrum of myxoid adipocytic neoplasia.

Semin Diagn Pathol 2001 Nov;18(4): p267-73

Orvieto E; Furlanetto A; Laurino L; Dei Tos AP

Cytomorphology of lipomatous tumors of soft tissue.

Acta Cytol 2003 Jul-Aug;47(4): p555-62

Kapila K; Ghosal N; Gill SS; Verma K

Case 7

An 85 y/o man presented with a 4.2 cm mass in the left hip.

Dx:

Pleomorphic liposarcoma, hip

Pleomorphic liposarcoma.

Semin Diagn Pathol 2001 Nov;18(4): p274-85

Oliveira AM; Nascimento AG

Pleomorphic liposarcoma: a clinicopathologic analysis of 19 cases.

Mod Pathol 2001 Mar;14(3): p179-84
Downes KA; Goldblum JR; Montgomery EA; Fisher C

Pleomorphic liposarcoma: clinicopathologic, immunohistochemical, and follow-up analysis of 63 cases: a study from the French Federation of Cancer Centers Sarcoma Group.

Am J Surg Pathol 2002 May;26(5): p601-16
Gebhard S; Coindre JM, et al.

Diagnostic pitfalls in fine needle aspiration cytology of pleomorphic lipoma. A case report.

Acta Cytol 2000 Jul-Aug;44(4): p653-6
Thirumala S; Desai M; Kannan V

Cytomorphology of lipomatous tumors of soft tissue.

Acta Cytol 2003 Jul-Aug;47(4): p555-62
Kapila K; Ghosal N; Gill SS; Verma K

The role of electron microscopy in the diagnosis of pleomorphic sarcomas of soft tissue.

Semin Diagn Pathol 2003 Feb;20(1): p72-81
Kindblom LG; Widehn S; Meis-Kindblom JM

Case 8

A 32 y/o woman with a dx of retroperitoneal liposarcoma in 1976 had been treated with nephrectomy and 5000 rads. Recurrence in the retroperitoneum occurred in 1981 (resection 2200 rads, adriamycin). Another recurrence was in 1983 in the jejunal mesentery and ileal mesentery. Two years later (1985) it was back in the fatty tissues around the jejunum and pancreas.

Dx:

Dedifferentiated liposarcoma, retroperitoneum

Dedifferentiated liposarcoma.

Semin Diagn Pathol 2001 Nov;18(4): p263-6
Nascimento AG

Histologically low-grade dedifferentiated liposarcoma of the retroperitoneum.

Pathol Int 2001 May;51(5): p392-5
Fukunaga M

Case of retroperitoneal dedifferentiated mixed-type liposarcoma: comparison of proliferative activity in specimens from four operations.

J Surg Oncol 1999 Sep;72(1): p32-6
Kato T; Motohara T, et al.

Overlapping features between dedifferentiated liposarcoma and undifferentiated high-grade pleomorphic sarcoma.

Am J Surg Pathol 2009 Nov;33(11): p1594-600
Chung L; Lau SK, et al.

Retroperitoneal liposarcomas: follow-up analysis of dedifferentiation after clinicopathologic reexamination of 86 liposarcomas and malignant fibrous histiocytomas.

Cancer 2006 Jun 15;106(12): p2725-33
Fabre-Guillevin E; Coindre JM, et al.

The prognostic impact of dedifferentiation in retroperitoneal liposarcoma: a series of surgically treated patients at a single institution.

Cancer 2008 Oct 1;113(7): p1657-65
Mussi C; Collini P, et al.

Case 9

A 42 y/o man presented with an occipital mass. The excised specimen was soft, tan, and 2.5 cm in diameter. Desmin was negative, CD34 was positive.

Dx:

Spindle cell lipoma, myxoid, occipital region

Spindle cell lipoma: an uncommon tumour with distinctive morphology.

Cytopathology 2007 Apr;18(2): p123-5
Pathan SK; Kapila K; Al-Ayadhy B; Abdeen S

Diagnostically challenging spindle cell lipomas: a report of 34 "low-fat" and "fat-free" variants.

Am J Dermatopathol 2007 Oct;29(5): p437-42
Billings SD; Folpe AL

Synchronous ordinary lipoma and spindle-cell lipoma diagnosed by fine needle aspiration.

Diagn Cytopathol 2006 Jun;34(6): p455-6
Siddiqui MA; Su L; Michael CW; Pu RT

Giant spindle cell lipoma of the posterior neck.

Dermatol Surg 2007 Oct;33(10): p1258-61
Eryilmaz M; Yigit T; Ozturk G; Safali M; Aksu AY

Suprasellar spindle cell lipoma.

Ann Diagn Pathol 2009 Jun;13(3): p173-5
Pekarski KL; Prayson RA

Lipoma of the buccal fat pad: report of two cases and review of the literature.

J Plast Reconstr Aesthet Surg 2009 Jan;62(1): p28-35
de Wijn RS; van der Heijden EP; Kon M

Case 10

A 41 y/o man presented with a painless, enlarging left thigh mass over an 8 month period. It was 835 grams, and 16 x 10.5 x 7 cm with a largely white and "fibrous" cut surface. There were also regions of yellow-green cystic necrosis.

Desmin +

HHF35	-
SMAActin	-
S100	-
F13a	-
CD68	-
CD34	-

Dx:

Myxoid & round cell liposarcoma, cellular, thigh

Primary retroperitoneal myxoid/round cell liposarcoma is a nonexisting disease: an immunohistochemical and molecular biological analysis.

Mod Pathol 2009 Feb;22(2): p223-31

de Vreeze RS; de Jong D, et al.

The myxoid liposarcoma FUS-DDIT3 fusion oncoprotein deregulates NF-kappaB target genes by interaction with NFKBIZ.

Oncogene 2009 Jan 15;28(2): p270-8

Goransson M; Andersson MK, et al.

Primitive round cell liposarcoma of the omentum: diagnostic value of ultrastructural study.

Ultrastruct Pathol 2003 Nov-Dec;27(6): p433-7

Alameda F; Corominas JM, et al.

Cytogenetic analysis of myxoid liposarcoma and myxofibrosarcoma by array-based comparative genomic hybridisation.

J Clin Pathol 2006 Sep;59(9): p978-83

Ohguri T; Hisaoka M, et al.

Irradiation of myxoid/round cell liposarcoma induces volume reduction and lipoma-like morphology.

Acta Oncol 2007;46(6): p838-45

Engstrom K; Bergh P, et al.

Myxoid liposarcoma with adipocytic maturation: detection of TLS/CHOP fusion gene transcript.

Diagn Mol Pathol 2004 Jun;13(2): p92-6

Nakanishi H; Araki N, et al.