

**California Tumor Tissue Registry's
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"Myogenous Neoplasms"

Case 1:

A 13 y/o boy presented with a painless nodule involving his left knee.

Santa Barbara (Miramonte Laboratory) - Angiomyoma
Santa Rosa (Santa Rosa Memorial Hospital) - Angiomyoma (vascular leiomyoma) (1);
Benign vascular leiomyoma (2)
Woodland Hills (Kaiser Permanente) - Angiomyoma
Arkansas (The Lab of Path, PA) - Angiomyoma
Georgia, Atlanta - Angioleiomyoma
Illinois, Oak Brook - Angiomyoma
Kansas (Peterson Laboratory Services) - Vascular leiomyoma
Maryland, Baltimore - Vascular leiomyoma
Michigan (Wayne State University) - Angiomyoma
New Mexico, Albuquerque - Angiomyoma
Texas, Victoria - Myofibroma with vascular ectasia
India, Kochi - Angiomyoma of knee

Dx: Angiomyoma, knee

Vascular leiomyoma presenting as medial joint line pain of the knee.
Arthroscopy 2003 Mar;19(3): pE24
Dicaprio MR; Jokl P

Lack of CD34 positive stromal cells within angiomyomas (vascular leiomyomas).
J Clin Pathol 2002 May;55(5): p395-6
Nakayama H; Enzan H; Miyazaki E; Kuroda N; Toi M

Multiple Epstein-Barr virus-associated subcutaneous angioleiomyomas in a patient with acquired immunodeficiency syndrome.
Br J Dermatol 2002 Sep;147(3): p563-7
Chang JY; Wang S; Hung CC; Tsai TF; Hsiao CH

Congenital angiomyoma of the tongue: case report.
Dentomaxillofac Radiol 2010 Oct;39(7): p446-8
Kim YH; Jang YW; Pai H; Kim SG

Angioleiomyoma of the internal auditory canal: clinical and radiographic features.
Otol Neurotol 2010 Dec;31(9): p1451-4
Pepper JP; McKeever P; Gebarski S; Spector M; Thompson BG; Arts HA

Glossal angiomyoma: imaging findings and endovascular treatment.
Head Neck 2004 Dec;26(12): p1084-8

Marden FA; Calilao GC; Guzman G; Roy SS

Case 2

A 51 y/o man with a history of GI tubular adenomas underwent routine surveillance. In addition to finding another TA, this additional nodule was incidentally found.

Santa Barbara (Miramonte Laboratory) - Leiomyoma

Santa Rosa (Santa Rosa Memorial Hospital) - Leiomyoma of submucosa (muscularis mucosa) (2); Benign GI leiomyoma, rule out GIST with stains (1)

Woodland Hills (Kaiser Permanente) - Leiomyoma of the muscularis mucosa

Arkansas (The Lab of Path, PA) - Leiomyoma

Georgia, Atlanta - Submucosal leiomyoma

Illinois, Oak Brook - Leiomyoma

Kansas (Peterson Laboratory Services) - Leiomyoma

Maryland, Baltimore - Leiomyoma of muscularis mucosa

Michigan (Wayne State University) - Leiomyoma

New Mexico, Albuquerque - Leiomyoma

Texas, Victoria - Leiomyoma

India, Kochi - Leiomyoma of colon

Dx: Leiomyoma of Muscularis Mucosa, colon

Pedunculated leiomyoma.

Gastrointest Endosc 2005 Mar;61(3): p429

Han DH; Cheon YK; Cho JY; Kim YS; Lee JS; Lee MS; Shim CS

An unusual polyp: a pedunculated leiomyoma of the sigmoid colon.

Endoscopy 2011;43 Suppl 2 UCTN:E306-7

Kemp CD; Arnold CA; Torbenson MS; Stein EM

[Leiomyomatosis of the colon: case report and literature review]

Pathologe 2007 Mar;28(2): p161-5

Padberg BC; Emmermann A; Zornig C; Germer M; Schroder S

Massive lower gastrointestinal hemorrhage caused by a large extraluminal leiomyoma of the colon: report of a case.

Dis Colon Rectum 2008 Jun;51(6): p975-8

Chen CW; Jao SW; Wu CC; Ou JJ; Hsiao CW; Chao PC

Two case reports of bowel leiomyomas and review of literature.

Gynecol Endocrinol 2010 Dec;26(12): p894-6

Pezzuto A; Serboli G; Ceccaroni M; Ferrari B; Nardelli GB; Minelli LL

True smooth muscle tumors of the small intestine: a clinicopathologic, immunohistochemical, and molecular genetic study of 25 cases.

Am J Surg Pathol 2009 Mar;33(3): p430-6

Miettinen M; Sobin LH; Lasota J

Case 3

An 18 y/o young man presented with intestinal obstruction. An 8 cm donut-shaped soft grey hemorrhagic tumor was removed from the colon,

Santa Barbara (Miramonte Laboratory) - Rhabdomyoma

Santa Rosa (Santa Rosa Memorial Hospital) - Embryonal rhabdomyosarcoma (1);
Extra renal/rhabdoid tumor (2)

Woodland Hills (Kaiser Permanente) - Ewing's sarcoma/PNET

Arkansas (The Lab of Path, PA) - Embryonal rhabdomyosarcoma

Georgia, Atlanta - Rhabdomyosarcoma

Illinois, Oak Brook - Embryonal rhabdomyosarcoma, botryoid

Kansas (Peterson Laboratory Services) - Rhabdomyosarcoma, embryonal

Maryland, Baltimore - Embryonal rhabdomyosarcoma

Michigan (Wayne State University) - Rhabdomyosarcoma, embryonal

New Mexico, Albuquerque - Epithelioid gastrointestinal stromal tumor

Texas, Victoria - Malignant GIST with rhabdoid features

India, Kochi - Embryonal rhabdomyosarcoma

Dx: Embryonal rhabdomyosarcoma, colon

Embryonal rhabdomyosarcoma with a novel t(2; 6)(p23; p21.1).

Cancer Genet Cytogenet 2008 Nov;187(1): p39-42

Pressey JG; Mroczek-Musulman E; Murata-Collins JL; Saito JM; Hammers Y

Rhabdomyosarcoma subtyping by immunohistochemical assessment of myogenin: tissue array study and review of the literature.

Pathol Oncol Res 2008 Sep;14(3): p233-8

Morgenstern DA; Rees H; Sebire NJ; Shipley J; Anderson J

Long term survival in two children with rhabdomyosarcoma of the biliary tract.

Klin Padiatr 2008 Nov-Dec;220(6): p378-9

Huber J; Sovinz P; Freidl T; Jahnel J; Lackner H; Hollwarth M; Otte JB; Urban C

Birth characteristics and the risk of childhood rhabdomyosarcoma based on histological subtype.

Br J Cancer 2010 Jan 5;102(1): p227-31

Ognjanovic S; Carozza SE; Chow EJ; Fox EE; Horel S; McLaughlin CC; Mueller BA; Puumala S; Reynolds P; Von Behren J; Spector L

Prevalence and clinical impact of anaplasia in childhood rhabdomyosarcoma: a report from the Soft Tissue Sarcoma Committee of the Children's Oncology Group.

Cancer 2008 Dec 1;113(11): p3242-7

Qualman S; Lynch J; Bridge J; Parham D; Teot L; Meyer W; Pappo A

Embryonal paratesticular rhabdomyosarcoma: a case of young adult patient who has inguinal relapse.
Int Urol Nephrol 2007;39(4): p1159-61
Kosan M; Gonulalan U; Ugurlu O; Seckin S; Adsan O

Case 4

A 16 y/o African American woman noted development of a mass in her right hand, of one years duration. There had been a progressive increase in size. Physical exam showed a 6 cm soft, non-tender mass in the right hand interposed between the first and second metacarpals. X-rays did not show boney involvement. The excised mass was oval, 46 gram, and 6.0 cm in greatest diameter.

Santa Barbara (Miramonte Laboratory) - Embryonal rhabdomyosarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Alveolar rhabdomyosarcoma (3)
Woodland Hills (Kaiser Permanente) - Alveolar rhabdomyosarcoma
Arkansas (The Lab of Path, PA) - Rhabdomyosarcoma
Georgia, Atlanta - Rhabdomyosarcoma
Illinois, Oak Brook - Alveolar rhabdomyosarcoma
Kansas (Peterson Laboratory Services) - Rhabdomyosarcoma, alveolar
Maryland, Baltimore - Alveolar rhabdomyosarcoma
Michigan (Wayne State University) - Rhabdomyosarcoma, alveolar
New Mexico, Albuquerque - Embryonal rhabdomyosarcoma
Texas, Victoria - Alveolar rhabdomyosarcoma
India, Kochi - Alveolar rhabdomyosarcoma

Dx: Alveolar rhabdomyosarcoma, hand

Alveolar rhabdomyosarcoma of the left hand with bilateral breast metastases in an adolescent female.

J Chin Med Assoc (China 2008 Dec;71(12): p639-42
Tan GC; Shiran MS; Hayati AR; Sharifah NA; Nuru AS; Rohaizak M

Alveolar rhabdomyosarcoma of the hand in a 2 year-old child.

J Hand Surg Eur Vol 2007 Feb;32(1): p109-10
Milanovic R; Vljacic Z; Zic R; Stanec S; Rudman F; Stanec Z

PAX immunoreactivity identifies alveolar rhabdomyosarcoma.

Am J Surg Pathol 2009 May;33(5): p775-80
Sullivan LM; Atkins KA; Le Gallo RD

Fine-needle aspiration cytology of alveolar rhabdomyosarcoma utilizing ThinPrep liquid-based sample and cytospin preparations: a case confirmed by FKHR break apart rearrangement by FISH probe.

Diagn Cytopathol 2006 Oct;34(10): p704-6
Das K; Mirani N; Hameed M; Pliner L; Aisner SC

Solid variant of alveolar rhabdomyosarcoma in the head and neck region: a case report of a diagnostic dilemma in a head and neck fine needle aspiration clinic.

Acta Cytol 2010 Sep-Oct;54(5 Suppl): p849-52

Aslam MB; Sahasrabudhe N; Kumar SN; Shenjere P; Belloso A; Morar P

Case 5

A 37 y/o man presented with an enlarged “jugular node” but was otherwise asymptomatic. Following biopsy, a radical neck dissection was performed.

Santa Barbara (Miramonte Laboratory) - Alveolar rhabdomyosarcoma

Santa Rosa (Santa Rosa Memorial Hospital) - Alveolar rhabdomyosarcoma, metastatic to lymph node (3)

Woodland Hills (Kaiser Permanente) - Metastatic alveolar rhabdomyosarcoma

Arkansas (The Lab of Path, PA) - Alveolar rhabdomyosarcoma

Georgia, Atlanta - Alveolar rhabdomyosarcoma

Illinois, Oak Brook - Alveolar rhabdomyosarcoma

Kansas (Peterson Laboratory Services) - Rhabdomyosarcoma, pleomorphic

Maryland, Baltimore - Alveolar rhabdomyosarcoma

Michigan (Wayne State University) - Rhabdomyosarcoma, alveolar

New Mexico, Albuquerque - Metastatic alveolar rhabdomyosarcoma

Texas, Victoria - Alveolar rhabdomyosarcoma

India, Kochi - Alveolar rhabdomyosarcoma

Dx: Alveolar rhabdomyosarcoma, neck

Solid variant of alveolar rhabdomyosarcoma in the head and neck region: a case report of a diagnostic dilemma in a head and neck fine needle aspiration clinic.

Acta Cytol 2010 Sep-Oct;54(5 Suppl): p849-52

Aslam MB; Sahasrabudhe N; Kumar SN; Shenjere P; Belloso A; Morar P

Alveolar rhabdomyosarcoma of the head and neck region in older adults: genetic characterization and a review of the literature.

Hum Pathol 2009 Mar;40(3): p341-8

Yasuda T; Perry KD; Nelson M; Bui MM; Nasir A; Goldschmidt R; Gnepp DR; Bridge JA

The truth about alveolar rhabdomyosarcoma.

Ann Diagn Pathol 2003 Aug;7(4): p259-63

Heffner DK

Treatment of localized nonorbital, nonparameningeal head and neck rhabdomyosarcoma: lessons learned from intergroup rhabdomyosarcoma studies III and IV.

J Clin Oncol 2003 Feb 15;21(4): p638-45

Pappo AS; Meza JL; Donaldson SS; Wharam MD; Wiener ES; Qualman SJ; Maurer HM; Crist WM

Case 6

A 79 y/o woman was admitted to the hospital with a 7-8 day history of abdominal pain. She had not felt well for three weeks prior to admission and complained of a tendency

for bloating. She had a two year history of diverticular disease and it was felt that these complaints related to recurrent diverticulitis. The woman was put on antibiotics for four days prior to entering the hospital and was told to take magnesium citrate. She did have some watery bowel movements thereafter, but her pain and bloating did go away. She denied any fever, chills, sweats, etc. A splenectomy demonstrated an 890 gram, 15 x 8 x 7 cm spleen with an adjacent 11 cm solid grey-white necrotic and hemorrhagic mass involving adjacent soft tissues.

Santa Barbara (Miramonte Laboratory) - Rhabdomyosarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Pleomorphic rhabdomyosarcoma (3)
Woodland Hills (Kaiser Permanente) - Pleomorphic rhabdomyosarcoma
Arkansas (The Lab of Path, PA) - Pleomorphic rhabdomyosarcoma
Georgia, Atlanta - Pleomorphic rhabdomyosarcoma
Illinois, Oak Brook - Pleomorphic rhabdomyosarcoma
Kansas (Peterson Laboratory Services) - Rhabdomyosarcoma, pleomorphic
Maryland, Baltimore - Pleomorphic rhabdomyosarcoma
Michigan (Wayne State University) - Rhabdomyosarcoma, pleomorphic
New Mexico, Albuquerque - Pleomorphic rhabdomyosarcoma
Texas, Victoria - Pleomorphic rhabdomyosarcoma
India, Kochi - Pleomorphic rhabdomyosarcoma

Dx: Pleomorphic rhabdomyosarcoma, peri-splenic

Epithelioid rhabdomyosarcoma: clinicopathologic analysis of 16 cases of a morphologically distinct variant of rhabdomyosarcoma.

Am J Surg Pathol 2011 Oct;35(10): p1523-30

Jo VY; Marino-Enriquez A; Fletcher CD

Adult-type rhabdomyosarcoma: analysis of 57 cases with clinicopathologic description, identification of 3 morphologic patterns and prognosis.

Am J Surg Pathol 2009 Dec;33(12): p1850-9

Stock N; Chibon F; Binh MB; Terrier P; Michels JJ; Valo I; Robin YM; Guillou L; Ranchere-Vince D; Decouvelaere AV; Collin F; Birtwisle-Peyrottes I; Gregoire F; Aurias A; Coindre JM

Primary pleomorphic rhabdomyosarcoma of the kidney in an adult.

Ann Diagn Pathol 2008 Aug;12(4): p301-3

Dalfior D; Eccher A; Gobbo S; Brunelli M; Martignoni G; Menestrina F; Dalla PP; Dvornik G

Adult paravertebral pleomorphic rhabdomyosarcoma infiltrating diffusely the whole spinal axis. Case report.

J Neurosurg Spine 2005 Mar;2(3): p344-8

Fountas KN; Donner RS; Nikolakakos LG; Feltes CH; Karampelas I; Robinson JS

Histopathological re-classification of extremity pleomorphic soft tissue sarcoma has clinical relevance.

Eur J Surg Oncol 2004 Dec;30(10): p1131-6

Massi D; Beltrami G; Capanna R; Franchi A

Case 7

A 28 y/o woman on birth control pills experienced excessive bleeding and uterine enlargement to a size of 18-22 weeks gestation. She was placed on Syneral which did diminish her bleeding and reduced the uterine size, but not completely. Pelvic examination was felt to be a large fibroid uterus. At surgery, a 1 cm mass was found in the uterus. The cut surface was solid fibrous and somewhat mucinous.

Santa Barbara (Miramonte Laboratory) - Leiomyoma

Santa Rosa (Santa Rosa Memorial Hospital) - Leiomyoma with cellular and myxoid areas (1); Cellular myxoid leiomyoma (2)

Woodland Hills (Kaiser Permanente) - Embryonal rhabdomyosarcoma

Arkansas (The Lab of Path, PA) - Myxoid leiomyosarcoma

Georgia, Atlanta - Uterine tumor resembling sex cord stromal tumor

Illinois, Oak Brook - Leiomyosarcoma

Kansas (Peterson Laboratory Services) - Cellular leiomyoma with degenerative change

Maryland, Baltimore - Myxoid leiomyosarcoma

Michigan (Wayne State University) - Myxoid leiomyosarcoma

New Mexico, Albuquerque - Myxoid leiomyosarcoma

Texas, Victoria - Sarcoma, leiomyosarcoma

India, Kochi - Myxoid leiomyosarcoma of uterus

Dx: Myxoid leiomyosarcoma, uterus

Disseminating myxoid leiomyosarcoma of the uterus.

Arch Gynecol Obstet 2005 Feb;271(2): p166-7

Malhotra M; Sharma JB; Wadhwa L; Singh S

Peritoneal washing cytology findings of disseminated myxoid leiomyosarcoma of uterus: report of a case with emphasis on possible differential diagnosis.

Diagn Cytopathol 2002 Jul;27(1): p47-52

Ng WK; Lui PC; Ma L

Myxoid leiomyosarcoma of the uterus with subsequent pregnancy and delivery.

Gynecol Oncol 2002 Jun;85(3): p538-42

Kagami S; Kashimura M; Toki N; Katuhata Y

Histopathologic prognostic factors in stage I leiomyosarcoma of the uterus: a detailed analysis of 27 cases.

Am J Surg Pathol 2011 Apr;35(4): p522-9

Wang WL; Soslow R; Hensley M; Asad H; Zannoni GF; de Nictolis M; Branton P; Muzikansky A; Oliva E

"Low-grade leiomyosarcoma" and late-recurring smooth muscle tumors of the uterus: a heterogenous collection of frequently misdiagnosed tumors associated with an overall favorable prognosis relative to conventional uterine leiomyosarcomas.

Am J Surg Pathol 2011 Nov;35(11): p1626-37

Veras E; Zivanovic O; Jacks L; Chiappetta D; Hensley M; Soslow R

Case 8

A 58 y/o woman presented with a left buttock mass which had the same histomorphology of a concurrently found uterine tumor. This slide is from the uterus.

Santa Barbara (Miramonte Laboratory) - Leiomyoma
Santa Rosa (Santa Rosa Memorial Hospital) - Leiomyosarcoma (3)
Woodland Hills (Kaiser Permanente) - Low grade endometrial stromal
Arkansas (The Lab of Path, PA) - Leiomyosarcoma
Georgia, Atlanta - Endometrial stromal sarcoma with smooth muscle differentiation
Illinois, Oak Brook - Leiomyosarcoma
Kansas (Peterson Laboratory Services) - Benign metastasizing leiomyoma
Maryland, Baltimore - Leiomyosarcoma
Michigan (Wayne State University) - Leiomyosarcoma
New Mexico, Albuquerque - PEcoma
Texas, Victoria - Leiomyosarcoma
India, Kochi - Leiomyosarcoma of uterus

Dx: Leiomyosarcoma, uterus

Uterine leiomyosarcomas: tumor size, mitotic index, and biomarkers Ki67, and Bcl-2 identify two groups with different prognosis.
Gynecol Oncol 2011 May 1;121(2): p328-33
D'Angelo E; Espinosa I; Ali R; Gilks CB; Rijn M; Lee CH; Prat J

Different characteristics of mitochondrial microsatellite instability between uterine leiomyomas and leiomyosarcomas.
Pathol Oncol Res 2011 Jun;17(2): p201-5
Lee JH; Ryu TY; Cho CH; Kim DK

Metastatic uterine leiomyosarcoma and eosinophilia.
Obstet Gynecol 2011 Feb;117(2 Pt 2): p459-61
Ksienski D; Cheung WY

Leiomyosarcoma with osteoclast-like giant cells of the uterus: a case report and literature review.
J Med Assoc Thai 2010 Apr;93(4): p510-5
Sukpan K; Khunamornpong S; Suprasert P; Siriaunkgul S

Uterine smooth muscle tumor of uncertain malignant potential: a retrospective analysis.
Gynecol Oncol 2009 Jun;113(3): p324-6
Guntupalli SR; Ramirez PT; Anderson ML; Milam MR; Bodurka DC; Malpica A

Uterine leiomyosarcoma arising from a fibroid.
J Obstet Gynaecol 2009 Feb;29(2): p169-70
Bukar M; Audu BM; Mustapha Z; Nggada HA; Takai UI

Leiomyosarcoma arising in a patient with prior mitotically active leiomyoma.

J Obstet Gynaecol Res 2010 Feb;36(1): p187-90
Kim JH; Choi YJ; Kim DC; Lee SJ

Case 9

A 52 y/o woman with a 7 x 5 x 3 cm mass in the kidney presented with apparent metastatic nodules in the lung and liver. The submitted slide is from the kidney tumor.

Santa Barbara (Miramonte Laboratory) - Rhabdoid tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Sclerosing rhabdomyosarcoma (1);
Malignant round cell tumor, NOS (1); rule out rhabdomyosarcoma (1)
Woodland Hills (Kaiser Permanente) - Alveolar rhabdomyosarcoma
Arkansas (The Lab of Path, PA) - Malignant rhabdoid tumor
Georgia, Atlanta - PEcoma, rule out epithelioid leiomyosarcoma/angiomyolipoma
Illinois, Oak Brook - Melanoma metastatic
Kansas (Peterson Laboratory Services) - Leiomyosarcoma
Maryland, Baltimore - Epithelioid leiomyosarcoma
Michigan (Wayne State University) - Epithelioid leiomyosarcoma
New Mexico, Albuquerque - Poorly differentiated malignant neoplasm
Texas, Victoria - Sarcoma, ? type
India, Kochi - Epithelioid leiomyosarcoma of kidney

Dx: Epithelioid leiomyosarcoma, kidney

Epithelioid leiomyosarcoma with rhabdoid features.
Wien Klin Wochenschr 2007;119(17-18): p557-60
Yorulmaz G; Erdogan G; Pestereli HE; Savas B; Karaveli FS

Case of leiomyosarcoma of the renal pelvis.
Int J Urol 2004 Feb;11(2): p122-4
Minami H; Ueki O; Tanaka T; Nishida H; Hashimoto T; Kawaguchi K

Leiomyosarcoma of the kidney: a clinicopathologic study.
Am J Surg Pathol 2004 Feb;28(2): p178-82
Deyrup AT; Montgomery E; Fisher C

Leiomyosarcoma of the renal pelvis.
Indian J Pathol Microbiol 2009 Oct-Dec;52(4): p549-51
Dhamne SA; Gadgil NM; Padmanabhan A

Case report: good prognosis in leiomyosarcoma of the kidney.
Int Urol Nephrol 2007;39(1): p7-10
Demir A; Yazici CM; Eren F; Turkeri L

Primary leiomyosarcoma of the kidney: a clinicopathologic study of 27 cases.
Am J Surg Pathol 2010 Feb;34(2): p238-42
Miller JS; Zhou M; Brimo F; Guo CC; Epstein JI

Case 10

A 5 cm forearm mass was found in a 60 y/o woman. The tumor stained positively for SMA, vimentin and desmin, but was negative for keratin, HMB45 and S100.

Santa Barbara (Miramonte Laboratory) - Leiomyosarcoma

Santa Rosa (Santa Rosa Memorial Hospital) - Leiomyosarcoma of vascular origin (3)

Woodland Hills (Kaiser Permanente) - Leiomyosarcoma

Arkansas (The Lab of Path, PA) - Leiomyosarcoma

Georgia, Atlanta - Leiomyosarcoma

Illinois, Oak Brook - Pleomorphic leiomyosarcoma

Kansas (Peterson Laboratory Services) - Leiomyosarcoma

Maryland, Baltimore - Leiomyosarcoma

Michigan (Wayne State University) - Pleomorphic leiomyosarcoma

New Mexico, Albuquerque - Leiomyosarcoma

Texas, Victoria - Leiomyosarcoma

India, Kochi - Pleomorphic leiomyosarcoma

Dx: Pleomorphic leiomyosarcoma, forearm

Pleomorphic and dedifferentiated leiomyosarcoma: clinicopathologic and immunohistochemical study of 41 cases.

Hum Pathol 2010 May;41(5): p663-71

Nicolas MM; Tamboli P; Gomez JA; Czerniak BA

Pleomorphic leiomyosarcoma of the adrenal gland with osteoclast-like giant cells.

Endocr Pathol 2005 Spring;16(1): p75-81

Candanedo-Gonzalez FA; Vela Chavez T; Cerbulo-Vazquez A

Cutaneous leiomyosarcoma originating in a symplastic pilar leiomyoma: a rare occurrence and potential diagnostic pitfall.

J Cutan Pathol 2011 Jan;38(1): p49-53

Fons ME; Bachhuber T; Plaza JA

Leiomyosarcoma of the broad ligament with osteoclast-like giant cells and rhabdoid cells.

Int J Gynecol Pathol 2010 Sep;29(5): p432-7

Clarke BA; Rahimi K; Chetty R

Pleomorphic leiomyosarcoma of the adrenal gland.

Arch Pathol Lab Med 2003 Jan;127(1): p32-5

Lujan MG; Hoang MP

