

**California Tumor Tissue Registry's  
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***"Soft Tissue Tumors"***

**Case 1:**

A 0.5 cm papule was found in the eyelid of a 29 y/o woman. The serum lipids were normal.

Santa Barbara (Miramonte Laboratory) - Xanthoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Xanthoma (3)  
Arkansas (The Lab of Path, PA) - Xanthoma  
Georgia, Atlanta - Xanthoma  
Illinois, Oak Brook - Xanthelasma  
Indiana, Carmel - Xanthelasma  
Kansas (Peterson Laboratory Service) - Xanthoma  
Maryland, Baltimore - Xanthelasma  
Michigan (Wayne State University) - Xanthoma  
New Mexico, Albuquerque - Granular cell tumor  
Texas, Victoria - Xanthelasma  
Canada (University of Sherbrooke) - Xanthelasma  
Hong Kong (Hong Kong Baptist Hospital) - Xanthoma  
India, Kochi - Xanthelasma of eyelid

**Dx:** Cutaneous xanthoma (xanthelasma), eyelid

Cutaneous xanthomas and xanthelasma. Soft Tissue Tumors 5<sup>th</sup> ed., Weiss SW and Goldblum JR. Mosby-Elsevier, 2008, 356-358.

CD10 is expressed in cutaneous clear cell lesions of different histogenesis.

J Cutan Pathol 2005 May;32(5): p348-51  
Perna AG; Smith MJ; Krishnan B; Reed JA

Normolipemic papular xanthoma with xanthelasma.  
Dermatol Online J 2006;12(3): p19  
Singla A

Xanthelasma or xanthoma of the fallopian tube.  
Arch Pathol Lab Med 2003 Nov;127(11): pe417-9  
Chetty R; Reddy I; Batitang S

Papular xanthoma: a clinicopathological study of 10 cases.  
J Cutan Pathol 2002 Apr;29(4): p200-6  
Breier F; Zelger B; Reiter H; Gschnait F; Zelger BW

Clinicopathological features of eyelid skin tumors. A retrospective study of 5504 cases and review of literature.  
Am J Dermatopathol 2009 May;31(3): p256-62

Deprez M; Uffer S

## **Case 2**

A 66 y/o woman was found to have a four cm mass involving soft tissue of the left upper extremity.

Santa Barbara (Miramonte Laboratory) - Myxoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Myxoma (3)  
Arkansas (The Lab of Path, PA) - Myxoma  
Georgia, Atlanta - Myxoma  
Illinois, Oak Brook - Myxoma  
Indiana, Carmel - Myxoma  
Kansas (Peterson Laboratory Service) - Intramuscular myxoma  
Maryland, Baltimore - Myxoma  
Michigan (Wayne State University) - Myxoma  
New Mexico, Albuquerque - Myxoma  
Texas, Victoria - Myxoma, intramuscular  
Canada (University of Sherbrooke) - Myxoma  
Hong Kong (Hong Kong Baptist Hospital) - Soft tissue myxoma  
India, Kochi - Intramuscular myxoma

**Dx:** Intramuscular (IM) myxoma, upper extremity

Giant paravertebral myxoma.

Eur Spine J 2011 Jul;20 Suppl 2:S138-42

Rashid A; Abdul-Jabar HB; Karmani S; Rezajooi K; Casey AT

Intramuscular myxoma of the nasal vestibule.

Auris Nasus Larynx 2010 Feb;37(1): p100-2

Patsiaoura K; Anagnostou E; Benis N

The cytopathology of soft tissue myxomas: ganglia, juxta-articular myxoid lesions, and intramuscular myxoma.

Am J Clin Pathol 2005 Jun;123(6): p858-65

Wakely Jr PE; Bos GD; Mayerson J

Intramuscular myxoma: a clinicopathologic study of 17 patients.

Clin Orthop Relat Res 2002 Oct;(403): p191-7

Silver WP; Harrelson JM; Scully SP

Intramuscular myxoma: differential diagnosis and review of the literature.

Orthopedics 2002 Nov;25(11): p1297-9

Prado MA; Miro RL; Leal IM; Vargas J; Dorrego EJ

Sonography of intramuscular myxomas: the bright rim and bright cap signs.

J Ultrasound Med 2006 Jul;25(7): p865-9; quiz 870-1

Girish G; Jamadar DA; Landry D; Finlay K; Jacobson JA; Friedman L

Intramuscular myxomas: a clinicopathologic study with emphasis on surgical management.

Am Surg 2004 Dec;70(12): p1073-7

Charron P; Smith J

### **Case 3**

A 12 m/o boy presented with abdominal discomfort, diarrhea and fever. After palpating the liver to be five cm below the lowest rib, an 8 x 8 x 6 cm mass was found by ultrasound.

Santa Barbara (Miramonte Laboratory) - Infarct

Santa Rosa (Santa Rosa Memorial Hospital) - Infantile/hemangioendothelioma (2);

Hepatic hemangioma with thrombosis/necrosis vs mesenchymal hamartoma (1)

Arkansas (The Lab of Path, PA) - Abscess

Georgia, Atlanta - Mesenchymal hamartoma

Illinois, Oak Brook - Mesenchymal hamartoma

Indiana, Carmel - Mesenchymal hamartoma

Kansas (Peterson Laboratory Service) - Hamartoma

Maryland, Baltimore - Infarcted benign fibrous lesion consistent with mesenchymal hamartoma

Michigan (Wayne State University) - Hamartoma

New Mexico, Albuquerque - Mesenchymal hamartoma

Texas, Victoria - Mesenchymal hamartoma

Canada (University of Sherbrooke) - Mesenchymal hamartoma

Hong Kong (Hong Kong Baptist Hospital) - Infarcted hemangioma

India, Kochi - Mesenchymal hamartoma

### **Dx: Mesenchymal hamartoma, liver**

Hepatic mesenchymal hamartoma: a short review.

Arch Pathol Lab Med 2006 Oct;130(10): p1567-9

Siddiqui MA; McKenna BJ

Mesenchymal hamartoma of the liver with an interstitial deletion involving chromosome band 19q13.4: a theory as to pathogenesis?

Arch Pathol Lab Med 2006 Aug;130(8): p1216-8

Talmon GA; Cohen SM

Mesenchymal hamartoma of the liver: a systematic review.

J Pediatr Surg 2005 Nov;40(11): p1681-90

Stringer MD; Alizai NK

Mesenchymal hamartoma of the liver in adulthood: immunohistochemical profiles, clinical and histopathological features in two patients.

J Hepatobiliary Pancreat Surg 2005;12(6): p502-7

Yesim G; Gupse T; Zafer U; Ahmet A

Mesenchymal hamartoma of the liver mimicking hepatoblastoma.

J Pediatr Hematol Oncol 2008 Jun;30(6): p458-60

Unal E; Koksall Y; Akcoren Z; Tavli L; Gunel E; Kerimoglu U

Unusual lesions of the liver.

Clin Gastroenterol Hepatol 2009 Nov;7(11): p69

Jansen SV; Vliegen RF; Bakker CM

#### **Case 4**

A 21 y/o woman presented with a right thigh mass measuring about 20 cm, which had been growing slowly for approximately two years. It was Cytokeratin positive, EMA positive and S100 negative.

Santa Barbara (Miramonte Laboratory) - Synovial sarcoma

Santa Rosa (Santa Rosa Memorial Hospital) - Synovial sarcoma, monophasic (3)

Arkansas (The Lab of Path, PA) - Synovial sarcoma, monophasic

Georgia, Atlanta - Monophasic synovial sarcoma

Illinois, Oak Brook - Monophasic synovial sarcoma

Indiana, Carmel - Synovial sarcoma, monophasic

Kansas (Peterson Laboratory Service) - Synovial sarcoma

Maryland, Baltimore - Synovial sarcoma, monophasic

Michigan (Wayne State University) - Synovial sarcoma

New Mexico, Albuquerque - Extraskeletal chondrosarcoma

Texas, Victoria - Synovial sarcoma

Canada (University of Sherbrooke) - Synovial sarcoma (monophasic)

Hong Kong (Hong Kong Baptist Hospital) - Epithelioid sarcoma

India, Kochi - Monophasic synovial sarcoma of thigh

#### **Dx: Monophasic synovial sarcoma, thigh**

Monophasic synovial sarcoma: a cytologic spectrum.

Diagn Cytopathol 2004 Jan;30(1): p19-23

Ewing CA; Zakowski MF; Lin O

The classic prognostic factors tumor stage, tumor size, and tumor grade are the strongest predictors of outcome in synovial sarcoma: no role for SSX fusion type or ezrin expression.

Appl Immunohistochem Mol Morphol 2009 May;17(3): p189-95

ten Heuvel SE; Hoekstra HJ; Bastiaannet E; Suurmeijer AJ

Synovial sarcoma: diagnosis on fine-needle aspiration by morphology and molecular analysis.

Cancer 2009 Apr 25;117(2): p128-36

Srinivasan R; Gautam U; Gupta R; Rajwanshi A; Vasistha RK

Monophasic parapharyngeal synovial sarcoma diagnosed by cytology, immunocytochemistry, and molecular pathology: case report and review of the literature.

Diagn Cytopathol 2010 Nov;38(11): p822-7

Ouansafi I; Klein M; Sugrue C; Morgenstern N; Frank D; Wasserman P

Diagnostic pitfalls associated with fine-needle aspiration biopsy in a patient with the myxoid variant of monophasic fibrous synovial sarcoma.

Diagn Cytopathol 2006 Nov;34(11): p761-7

Bergman S; Brownlee NA; Geisinger KR; Ward WG; Pettenati MJ; Koty P; Ellis E; Beaty MW; Kilpatrick SE

Monophasic synovial sarcoma: a cytologic spectrum.

Diagn Cytopathol 2004 Jan;30(1): p19-23

Ewing CA; Zakowski MF; Lin O

Cytohistologic correlations in 56 synovial sarcomas in 36 patients: the Institut Curie experience.

Diagn Cytopathol 2002 Aug;27(2): p96-102

Klijanienko J; Caillaud JM; Lagace R; Vielh P

## **Case 5**

A 40 y/o man presented with a 12 cm knee mass. It was positive for pancytokeratin and EMA, but was negative for S100, SMA, MSA and desmin. It expressed a t(X;18)(p11.2;q11.2) translocation and a gain of a derivative x chromosome, as well as additional material on short arm (p) of chromosome 1, and loss of chromosome 18.

Santa Barbara (Miramonte Laboratory) - Synovial sarcoma

Santa Rosa (Santa Rosa Memorial Hospital) - Biphasic synovial sarcoma (2); Synovial sarcoma, monophasic type (1)

Arkansas (The Lab of Path, PA) - Synovial sarcoma, biphasic

Georgia, Atlanta - Biphasic synovial sarcoma

Illinois, Oak Brook - Synovial sarcoma

Indiana, Carmel - Synovial sarcoma, biphasic

Kansas (Peterson Laboratory Service) - Synovial sarcoma

Maryland, Baltimore - Synovial sarcoma

Michigan (Wayne State University) - Synovial sarcoma

New Mexico, Albuquerque - Synovial sarcoma

Texas, Victoria - Biphasic synovial sarcoma

Canada (University of Sherbrooke) - Synovial sarcoma (biphasic)

Hong Kong (Hong Kong Baptist Hospital) - Synovial sarcoma

India, Kochi - Biphasic synovial sarcoma of knee

## **Dx: Biphasic synovial sarcoma, knee**

Differential Ki67 and bcl-2 immunexpression in solid-glandular and spindle cell components of biphasic synovial sarcoma: a double immunostaining assessment with cytokeratin and vimentin.

Histopathology 2002 May;40(5): p464-71

Lopes JM; Nesland JM; Reis-Filho JS; Holm R

Synovial sarcoma in young people: background, prognostic factors, and therapeutic questions.

J Pediatr Hematol Oncol 2005 Apr;27(4): p207-11

Raney RB

MAGE antigen expression in monophasic and biphasic synovial sarcoma.  
Hum Pathol 2002 Feb;33(2): p225-9  
Antonescu CR; Busam KJ; Iversen K; Kolb D; Coplan K; Spagnoli GC;  
Ladanyi M; Old LJ; Jungbluth AA

Intra articular synovial sarcoma.  
Indian J Pathol Microbiol 2010 Jan-Mar;53(1): p115-6  
Sistla R; Tameem A; Vidyasagar JV

Synovial sarcoma: diagnosis on fine-needle aspiration by morphology  
and molecular analysis.  
Cancer 2009 Apr 25;117(2): p128-36  
Srinivasan R; Gautam U; Gupta R; Rajwanshi A; Vasistha RK

Gene expression profiling of synovial sarcoma: distinct signature of  
poorly differentiated type.  
Am J Surg Pathol 2010 Nov;34(11): p1599-607  
Nakayama R; Mitani S; Nakagawa T; Hasegawa T; Kawai A; Morioka H;  
Yabe H; Toyama Y; Ogose A; Toguchida J; Nakayama T; Yoshida T;  
Ichikawa H

## **Case 6**

A 15 y/o man had developed mild constipation and was admitted to the hospital with a large abdominal mass. A CT scan revealed a dumbbell-shaped tumor extending into the lower abdomen. There were also multiple liver metastases and questionable retroperitoneal lymph nodes. The removed tumor had multiple well-circumscribed pale tan nodules in the omentum. One dominant nodule was 12 cm and weighed 390 grams. Other nodules ranged from 0.6 – 2.0 cm.

Santa Barbara (Miramonte Laboratory) - Desmoplastic small round cell tumor  
Santa Rosa (Santa Rosa Memorial Hospital) - Desmoplastic small round cell tumor (3)  
Arkansas (The Lab of Path, PA) - Desmoplastic small round cell tumor  
Georgia, Atlanta - Desmoplastic small round cell tumor  
Illinois, Oak Brook - PPNET  
Indiana, Carmel - Desmoplastic small round cell tumor  
Kansas (Peterson Laboratory Service) - Desmoplastic small round cell tumor  
Maryland, Baltimore - Desmoplastic small round cell tumor  
Michigan (Wayne State University) - Desmoplastic small round cell tumor  
New Mexico, Albuquerque - Desmoplastic small cell tumor  
Texas, Victoria - Desmoplastic small round cell tumor  
Canada (University of Sherbrooke) - Desmoplastic small round cell tumor  
Hong Kong (Hong Kong Baptist Hospital) - Desmoplastic small round cell tumor  
India, Kochi - Desmoplastic small round cell tumor

## **Dx: Desmoplastic small round cell tumor (DSRCT), abdomen**

Desmoplastic small round cell tumor of the kidney mimicking Wilms tumor: a case report and review of the literature.  
Appl Immunohistochem Mol Morphol 2009 Dec;17(6): p557-62

da Silva RC; Medeiros Filho P; Chioato L; Silva TR; Ribeiro SM;  
Bacchi CE

Cytology of desmoplastic small round-cell tumor: comparison of pre-  
and post-chemotherapy fine-needle aspiration biopsies.

Cancer 2007 Feb 25;111(1): p41-6

Presley AE; Kong CS; Rowe DM; Atkins KA

The diagnosis and management of desmoplastic small round cell tumor:  
a review.

Curr Opin Oncol 2011 Jul;23(4): p385-9

Hayes-Jordan A; Anderson PM

Desmoplastic small round cell tumor: a clinical, pathological, and  
immunohistochemical study of 18 Chinese cases.

Int J Surg Pathol 2008 Jul;16(3): p257-62

Liping Cao; Jun Ni; Risheng Que; Zhengrong Wu; Zhenya Song

Desmoplastic small round cell tumor of the kidney in childhood.

Am J Surg Pathol 2007 Apr;31(4): p576-84

Wang LL; Perlman EJ; Vujanic GM; Zuppan C; Brundler MA; Cheung CR;

Calicchio ML; Dubois S; Cendron M; Murata-Collins JL; Wenger GD;

Strzelecki D; Barr FG; Collins T; Perez-Atayde AR; Kozakewich H

A new molecular variant of desmoplastic small round cell tumor:  
significance of WT1 immunostaining in this entity.

Hum Pathol 2008 Dec;39(12): p1763-70

Murphy AJ; Bishop K; Pereira C; Chilton-MacNeill S; Ho M; Zielenska  
M; Thorner PS

## **Case 7**

A 33 y/o woman presented with a palpable deeply located mass in the thigh.

Santa Barbara (Miramonte Laboratory) - Alveolar soft part sarcoma

Santa Rosa (Santa Rosa Memorial Hospital) - Alveolar soft part sarcoma (3)

Arkansas (The Lab of Path, PA) - Alveolar soft part sarcoma

Georgia, Atlanta - Alveolar soft part sarcoma

Illinois, Oak Brook - Alveolar soft part sarcoma

Indiana, Carmel - Alveolar soft part sarcoma

Kansas (Peterson Laboratory Service) - Alveolar soft part sarcoma

Maryland, Baltimore - Alveolar soft part sarcoma

Michigan (Wayne State University) - Alveolar soft part sarcoma

New Mexico, Albuquerque - Alveolar soft part sarcoma

Texas, Victoria - Alveolar soft part sarcoma

Canada (University of Sherbrooke) - Alveolar soft part sarcoma

Hong Kong (Hong Kong Baptist Hospital) - Alveolar soft part sarcoma

India, Kochi - Alveolar soft part sarcoma of thigh

**Dx:** Alveolar soft part sarcoma, thigh

Cytopathological diagnosis of alveolar soft part sarcoma, a rare  
soft tissue neoplasm.

Cytopathology 2011 Oct;22(5): p318-22  
Agarwal S; Gupta R; Iyer VK; Mathur SR; Ray R

Alveolar soft-part sarcoma of the tongue: report of a case and review of the literature.

Int J Oral Maxillofac Surg 2010 Aug;39(8): p824-6  
Eley KA; Afzal T; Shah KA; Watt-Smith SR

Cytologic diagnosis of alveolar soft part sarcoma of the lower extremity by fine needle aspiration and correlation with core biopsy: a case report.

Acta Cytol 2008 Jul-Aug;52(4): p459-63  
Carter JE; Evans TN; Tucker JA

Alveolar soft part sarcoma.

Arch Pathol Lab Med 2007 Mar;131(3): p488-91  
Zarrin-Khameh N; Kaye KS

Alveolar soft part sarcoma: clinicopathological findings in a series of 11 cases.

World J Surg Oncol 2008;6:71  
Daigeler A; Kuhnen C; Hauser J; Goertz O; Tilkorn D; Steinstraesser L; Steinau HU; Lehnhardt M

Alveolar soft part sarcoma: clinical, histopathological, molecular, and ultrastructural aspects.

Fetal Pediatr Pathol 2008;27(1): p31-40  
Khanna P; Paidas CN; Gilbert-Barness E

## **Case 8**

A 90 y/o black woman with a 25 yr hx of a mass on the dorsum of the right hand presented with an ulcerated mass. The hand was amputated.

*(This image/case was included in the 1985 Epithelioid Sarcoma review of 241 cases by Drs. Enzinger and Chase. See first reference.)*

Santa Barbara (Miramonte Laboratory) - Epithelioid sarcoma

Santa Rosa (Santa Rosa Memorial Hospital) - Epithelioid sarcoma (3)

Arkansas (The Lab of Path, PA) - Epithelioid sarcoma

Georgia, Atlanta - Epithelioid sarcoma

Illinois, Oak Brook - Epithelioid sarcoma

Indiana, Carmel - Epithelioid sarcoma

Kansas (Peterson Laboratory Service) - Epithelioid sarcoma

Maryland, Baltimore - Epithelioid sarcoma

Michigan (Wayne State University) - Epithelioid sarcoma

New Mexico, Albuquerque - Malignant adnexal tumor

Texas, Victoria - Epithelioid sarcoma

Canada (University of Sherbrooke) - Epithelioid sarcoma

Hong Kong (Hong Kong Baptist Hospital) - Epithelioid sarcoma

India, Kochi - Epithelioid sarcoma of hand

## **Dx: Epithelioid sarcoma, hand**

Epithelioid sarcoma. Diagnosis, prognostic indicators, and treatment.

Am J Surg Pathol, 1985; 9:241.  
Chase DR, Enzinger FM.

Epithelioid sarcoma of the foot with subsequent lesion in hand: metastatic lesion or second primary?

Indian J Pathol Microbiol 2007 Jul;50(3): p563-5  
Khapake DP; Jambhekar NA; Anchan C; Madur BP; Chinoy RF; Agarwal M; Puri A

Soft-tissue sarcomas of the hand: oncological outcome and prognostic factors.

J Bone Joint Surg Br 2008 Feb;90(2): p209-14  
Pradhan A; Cheung YC; Grimer RJ; Peake D; Al-Muderis OA; Thomas JM; Smith M

Epithelioid finger-sarcoma in an 11 year old girl--a case report.

Ger Med Sci 2010;8 p  
Stang F; Namdar T; Siemers F; Lange T; Mailander P

Chronic palmar ulcer: a case of epithelioid sarcoma.

Int J Dermatol 2002 Dec;41(12): p908-10  
Schulze RA; Willard RJ; Turiansky GW

[Epithelioid sarcoma of the hand, a seldomly recognized tumor]

Handchir Mikrochir Plast Chir 2004 Oct;36(5): p313-7  
Del Frari B; Zelger BG; Piza-Katzer H

Cytology of epithelioid sarcoma.

Cytopathology 2006 Oct;17(5): p305-7  
Yildiz I; Onder S; Kutluay L; Firat P

"Proximal-type" and classic epithelioid sarcomas represent a clinicopathologic continuum: case report.

Pediatr Dev Pathol 2005 Jan-Feb;8(1): p105-14  
Rakheja D; Wilson KS; Meehan J; Schultz RA; Gomez AM

## **Case 9**

A 54 y/o woman was found to have a nodule in the abdominal wall. It had been draining for 20 years. It recurred 6 times before she died of metastatic disease.

*This image/case was included in the 1985 Epithelioid Sarcoma paper by Drs. Chase and Enzinger. It is from the AFIP archives (now "Joint Pathology Center [JPC]").*

Santa Barbara (Miramonte Laboratory) - Epithelioid sarcoma

Santa Rosa (Santa Rosa Memorial Hospital) - Epithelioid sarcoma (3)

Arkansas (The Lab of Path, PA) - Epithelioid sarcoma

Georgia, Atlanta - Sarcomatoid carcinoma  
Illinois, Oak Brook - Fistular tract  
Indiana, Carmel - Epithelioid sarcoma  
Kansas (Peterson Laboratory Service) - Myxofibrosarcoma  
Maryland, Baltimore - Epithelioid sarcoma  
Michigan (Wayne State University) - Epithelioid sarcoma  
New Mexico, Albuquerque - Squamous cell carcinoma  
Texas, Victoria - Epithelioid sarcoma  
Canada (University of Sherbrooke) - Epithelioid sarcoma  
Hong Kong (Hong Kong Baptist Hospital) - Epithelioid sarcoma  
India, Kochi - Epithelioid sarcoma of abdominal wall

**Dx:** Epithelioid sarcoma, abdominal wall

Epithelioid sarcoma. Diagnosis, prognostic indicators, and treatment.

Am J Surg Pathol, 1985; 9:241.  
Chase DR, Enzinger FM.

"Proximal-type" and classic epithelioid sarcomas represent a clinicopathologic continuum: case report.

Pediatr Dev Pathol 2005 Jan-Feb;8(1): p105-14  
Rakheja D; Wilson KS; Meehan J; Schultz RA; Gomez AM

Epithelioid sarcoma: a diagnostic challenge.

SO - Indian J Dermatol Venereol Leprol 2006 Nov-Dec;72(6): p446-8  
AU - Pai KK; Pai SB; Sripathi H; Rao P

Epithelioid sarcoma: Still an only surgically curable disease.

Cancer 2006 Aug 1;107(3): p606-12  
de Visscher SA; van Ginkel RJ; Wobbles T; Veth RP; Ten Heuvel SE;  
Suurmeijer AJ; Hoekstra HJ

Proximal-type epithelioid sarcoma with elevated serum CA 125: report of a case with CA 125 immunoreactivity.

Arch Pathol Lab Med 2006 Jun;130(6): p871-4  
Lee HI; Kang KH; Cho YM; Lee OJ; Ro JY

Epithelioid sarcoma of Enzinger.

Adv Anat Pathol 2006 May;13(3): p114-21  
Fisher C

"Proximal-type" epithelioid sarcoma in a young girl.

Pediatr Dermatol 2004 Mar-Apr;21(2): p117-20  
Gambini C; Sementa A; Rongioletti F

**Case 10**

A tumor developed on the right calf of this 57-year-old female. It weighed 489 grams and measured 18.0 x 7.0 x 4.0 cm. The mass was in the soft tissue around the fibula and tibia and extended to overlying soft tissue and skin. Sectioning revealed a 1.5 cm myxomatous region within the tumor.

keratin cocktail	strongly
positive	
CAM 5.2	strongly
positive	
CK 5/6	weak positivity
S100	negative
Desmin	focal staining of small blood vessels, otherwise negative
myogenin	negative
inhibin	moderate cytoplasmic staining
vimentin	strong, diffuse cytoplasmic
staining	
CD31	negative, except for small stromal blood vessels
CD34	moderate staining
p63	negative
TTF-1	negative
INI-1	loss of nuclear staining in tumor cells (with good nuclear staining of intermixed normal tissues)

Santa Barbara (Miramonte Laboratory) - Metastatic high-grade malignant neoplasm

Santa Rosa (Santa Rosa Memorial Hospital) - Epithelioid sarcoma (3)

Arkansas (The Lab of Path, PA) - Epithelioid sarcoma

Georgia, Atlanta - Epithelioid sarcoma of the proximal type

Illinois, Oak Brook - Epithelioid sarcoma

Indiana, Carmel - Epithelioid sarcoma

Kansas (Peterson Laboratory Service) - Epithelioid sarcoma

Maryland, Baltimore - Epithelioid sarcoma vs. sarcomatoid carcinoma

Michigan (Wayne State University) - Epithelioid sarcoma

New Mexico, Albuquerque - Angiosarcoma

Texas, Victoria - Epithelioid angiosarcoma

Canada (University of Sherbrooke) - Epithelioid sarcoma

Hong Kong (Hong Kong Baptist Hospital) - Epithelioid sarcoma

India, Kochi - Epithelioid sarcoma, large cell of calf

**Dx:** Epithelioid sarcoma, (large cell/rhabdoid type/proximal type), right calf

*Director's note: This tumor has the phenotype of the so-called "proximal variant" of ES, and illustrates that this morphology may occur in any epithelioid sarcoma, either primary or metastatic, and in any site (distal or proximal) - see first reference. (drc)*

Epithelioid sarcoma. Diagnosis, prognostic indicators, and treatment.

Am J Surg Pathol, 1985; 9:241.

Chase DR, Enzinger FM.

"Proximal-type" and classic epithelioid sarcomas represent a clinicopathologic continuum: case report.  
Pediatr Dev Pathol 2005 Jan-Feb;8(1): p105-14  
Rakheja D; Wilson KS; Meehan J; Schultz RA; Gomez AM

Chronic indurated ulceration of the leg, epithelioid sarcoma with lymph node metastasis.  
Eur J Dermatol 2003 Nov-Dec;13(6): p599-602  
Atugoda S; Audring H; Voit C; Sterry W; Blume-Peytavi U

Epithelioid sarcoma of the extremities: a dismal long-term outcome.  
J Orthop Sci 2002;7(4): p462-6  
Matsushita Y; Ahmed AR; Kawaguchi N; Matsumoto S; Manabe J

Is preoperative cytologic diagnosis of epithelioid sarcoma possible?  
Diagn Cytopathol 2008 Nov;36(11): p780-6  
Lemos MM; Chaves P; Mendonca ME

Epithelioid sarcoma: the University of Washington experience.  
Am J Surg 2008 Sep;196(3): p407-12  
Wolf PS; Flum DR; Tanas MR; Rubin BP; Mann GN

Myxoid epithelioid sarcoma: a diagnostic challenge. A report on six cases.  
Histopathology 2010 Nov;57(5): p753-9  
Flucke U; Hulsebos TJ; van Krieken JH; Mentzel T

Epithelioid sarcoma.  
Arch Pathol Lab Med 2009 May;133(5): p814-9  
Armah HB; Parwani AV

