

**California Tumor Tissue Registry's
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"Vascular Tumors and Proliferations"

Case 1:

A 37-year-old female had this red nodule involving her right ear.

Santa Barbara (Miramonte Laboratory) - Sclerosing hemangioma
Arkansas (The Lab of Path, PA) - Lobular capillary hemangioma (pyogenic granuloma)
Georgia, Atlanta - Epithelioid hemangioma
Kansas (Peterson Laboratory Services) - Epithelioid hemangioma
Maryland, Baltimore - Pyogenic granuloma
Michigan (Wayne State University) - Pyogenic granuloma
New Mexico, Albuquerque - Pyogenic granuloma
Texas, Victoria - Pyogenic granuloma
Hong Kong (Hong Kong Baptist Hospital) - Epithelioid hemangioma
India, Kochi - Pyogenic granuloma of ear

Dx: Pyogenic granuloma, ear

Metaplastic ossification in a cutaneous pyogenic granuloma: a case report.
J Dermatol 2004 Apr;31(4): p326-9
Kim ES; Kim KJ; Chang SE; Lee MW; Choi JH; Moon KC; Koh JK

Periungual and subungual pyogenic granuloma.
Br J Dermatol 2010 Nov;163(5): p941-53
Piraccini BM; Bellavista S; Misciali C; Tosti A; de Berker D; Richert B

Oral pyogenic granuloma: a retrospective analysis of 293 cases in a Brazilian population.
J Oral Maxillofac Surg 2010 Sep;68(9): p2185-8
Gordon-Nunez MA; de Vasconcelos Carvalho M; Benevenuto TG; Lopes MF; Silva LM; Galvao HC

[Lobular capillary hemangioma on the floor of the mouth (pyogenic granuloma). Report of a case and literature review]
An Otorrinolaringol Ibero Am 2006;33(6): p607-11
Pino Rivero V; Pantoja Hernandez CG; Gonzalez Palomino A; Mora Santos ME; Barrantes Celaya G; Guerra Camacho M; Blasco Huelva A

Case 2

A 1.0 cm nodule involved a long finger of a 12 y/o boy. There was history of minor trauma to the area during sports activities.

Santa Barbara (Miramonte Laboratory) - Recanalized thrombus

Arkansas (The Lab of Path, PA) - Papillary endothelial hyperplasia
Georgia, Atlanta - Organized thrombus
Kansas (Peterson Laboratory Services) - Organized thrombus
Maryland, Baltimore - Intravascular papillary endothelial
Michigan (Wayne State University) - Hyperplasia
New Mexico, Albuquerque - Papillary endothelial hyperplasia
Texas, Victoria - I-V PEH
Hong Kong (Hong Kong Baptist Hospital) - Intravascular papillary endothelial hyperplasia
India, Kochi - Papillary endothelial hyperplasia of finger

Dx: Papillary endothelial hyperplasia (PEH), finger

Recurrent intravascular papillary endothelial hyperplasia of the right middle finger treated with radiation therapy.

J Bone Joint Surg Br 2008 Jan;90(1): p95-7

Anthony SG; Mudgal CS; De Laney TF; Shin RD; Raskin KA; Ring DC

Intravascular papillary endothelial hyperplasia in the finger: not a premier diagnosis.

J Cutan Pathol 2007 Oct;34(10): p806-7

Erol O; Ozcakar L; Uygur F; Kecik A; Ozkaya O

"Masson's pseudoangiosarcoma" in a popliteal aneurysm: tumor or thrombus? Cause or effect?

Ann Vasc Surg 2010 Feb;24(2): p257.e1-3

McMahon GS; Mikhail HM; Molyneux AJ; Thomas DV; Hicks RC

Intravascular papillary endothelial hyperplasia of the neck masquerading as malignancy on fine-needle aspiration cytology.

Diagn Cytopathol 2003 Jul;29(1): p14-17

Suh KS; Shin KS; Park IA

Compressive effects of intravascular papillary endothelial hyperplasia.

Ophthal Plast Reconstr Surg 2010 Mar-Apr;26(2): p122-4

Aggarwal E; Madge SN; Rodgers N; Selva D

Case 3

This 64 year-old man had a nodule removed from the right hand.

Santa Barbara (Miramonte Laboratory) - Recanalized thrombus
Arkansas (The Lab of Path, PA) - Papillary endothelial hyperplasia
Georgia, Atlanta - Papillary endovascular hyperplasia of Masson
Kansas (Peterson Laboratory Services) - Intravascular papillary endothelial hyperplasia
Maryland, Baltimore - Intravascular papillary endothelial hyperplasia
Michigan (Wayne State University) - Hyperplasia
New Mexico, Albuquerque - Papillary endothelial hyperplasia
Texas, Victoria - Cavernous hemangioma with organizing thrombus
Hong Kong (Hong Kong Baptist Hospital) - Intravascular papillary endothelial hyperplasia
India, Kochi - Papillary endothelial hyperplasia of hand

Dx: Papillary endothelial hyperplasia (PEH), right hand

Cutaneous intravascular papillary endothelial hyperplasia of the hand: a case report and review of the literature.

Turk J Pediatr 2005 Jan-Mar;47(1): p71-4
Tokyol C; Demir Y; Aktepe F

Intravascular papillary endothelial hyperplasia of the extremities: MR imaging findings with pathologic correlation.

Eur Radiol 2004 May;14(5): p822-6
Lee SH; Suh JS; Lim BI; Yang WI; Shin KH

Papillary endothelial hyperplasia within synovial haemangioma of the flexor tendon sheath of the wrist.

APMIS 2004 Apr-May;112(4-5): p314-8
Chow LT; Ho PC; Kumta SM

Intravascular papillary endothelial hyperplasia: a pseudotumor presenting on the plantar foot.

Foot Ankle Int 2003 Nov;24(11): p871-4
Fink B; Temple HT; Mizel MS

Intravascular papillary endothelial hyperplasia (Masson's tumor) presenting as a triceps mass.

Skeletal Radiol 2004 Jul;33(7): p421-5
Clifford PD; Temple HT; Jorda M; Marecos E

Case 4

A 72 y/o woman had this 0.5 x 0.4 x 0.4 nodule in the left thumb. It was mildly painful.

Santa Barbara (Miramonte Laboratory) - Glomus tumor

Arkansas (The Lab of Path, PA) - Glomus tumor

Georgia, Atlanta - Glomus tumor

Kansas (Peterson Laboratory Services) - Glomangioma

Maryland, Baltimore - Glomangioma

Michigan (Wayne State University) - Glomus tumor

New Mexico, Albuquerque - Glomus tumor

Texas, Victoria - Glomus tumor

Hong Kong (Hong Kong Baptist Hospital) - Glomangioma

India, Kochi - Glomus tumor of thumb

Dx: Glomus tumor, thumb

Glomus tumour of the thumb in a child with neurofibromatosis: a case report.

J Pediatr Orthop B 2010 Jul;19(4): p310-2
Leonard M; Harrington P

Painful glomus tumour of the thumb in an 11-year-old child with neurofibromatosis 1.

J Hand Surg Eur Vol 2010 May;35(4): p319-20

Leonard M; Harrington P

Glomus tumour within digital nerve: a case report.
J Plast Reconstr Aesthet Surg 2011 Jul;64(7): p958-60
Kim SW; Jung SN

Symphastic glomangioma: information review and addition of a new case.
Int J Surg Pathol 2011 Aug;19(4): p499-501
Arsenovic N; Ramaiya A; Moreira R

Diagnosis, management, and complications of glomus tumours of the digits in neurofibromatosis type 1.
J Med Genet 2010 Aug;47(8): p525-32
Stewart DR; Sloan JL; Yao L; Mannes AJ; Moshlyedi A; Lee CC; Sciort R; De Smet L; Mautner VF; Legius E

Glomus tumors in neurofibromatosis type 1: genetic, functional, and clinical evidence of a novel association.
Cancer Res 2009 Sep 15;69(18): p7393-401
Brems H; Park C, et al.

Case 5

A 63 y/o white woman noticed this lobulated, 3.5 cm mass in region of the scapula. Duration unknown.

Santa Barbara (Miramonte Laboratory) - Plasmacytoma
Arkansas (The Lab of Path, PA) - Glomus tumor, malignant
Georgia, Atlanta - Malignant glomus tumor
Kansas (Peterson Laboratory Services) - Glomangiosarcoma
Maryland, Baltimore - Malignant glomus tumor
Michigan (Wayne State University) - Malignant glomus
New Mexico, Albuquerque - Glomangiosarcoma
Texas, Victoria - Glomus tumor, malignant
Hong Kong (Hong Kong Baptist Hospital) - Glomus tumor
India, Kochi - Malignant glomus tumor of scapula

Dx: Malignant Glomus tumor (glomangiosarcoma), scapula

Glomangiosarcoma of the hand: a case report and review of the literature.
J Dermatol 2003 Nov;30(11): p827-33
Park JH; Oh SH; Yang MH; Kim NI

Malignant glomus tumor of the hand.
Appl Immunohistochem Mol Morphol 2009 May;17(3): p264-9
Oh SD; Stephenson D; Schnall S; Fassola I; Dinh P

Malignant glomus tumor: a case report and review of literature, focusing on its clinicopathologic features and immunohistochemical profile.
Am J Dermatopathol 2005 Oct;27(5): p428-31
Khoury T; Balos L; McGrath B; Wong MK; Cheney RT; Tan D

Glomus tumour of uncertain malignant potential.
Pathologica 2008 Dec;100(6): p492-3
Chaabouni S; Ayadi L; Kallel R; Khabir A; Chaari C; Abbas K; Makni S;
Sellami-Boudawara T

Malignant cutaneous glomus tumor presenting as a rapidly growing leg mass
in a pregnant woman.

J Cutan Pathol 2008 Aug;35(8): p765-9
Cibull TL; Gleason BC; O'Malley DP; Billings SD; Wiersema P; Hiatt KM

Malignant glomus tumor of the palm: a case report.

J Cutan Pathol 2011 Apr;38(4): p381-4
Terada T; Fujimoto J; Shirakashi Y; Kamo M; Sugiura M

Case 6

A 21 y/o man developed a 2 cm mass in the subcutis of the left hand. It was painless. When excised, it was well circumscribed and had scattered cavernous vascular spaces.

Santa Barbara (Miramonte Laboratory) - Angiosarcoma
Arkansas (The Lab of Path, PA) - Spindle cell hemangioma
Georgia, Atlanta - Angiosarcoma
Kansas (Peterson Laboratory Services) - Spindle cell hemangioma
Maryland, Baltimore - Spindle cell hemangioma
Michigan (Wayne State University) - Spindle cell hemangioma
New Mexico, Albuquerque - Spindle cell hemangioendothelioma
Texas, Victoria - Hemangioendothelioma
Hong Kong (Hong Kong Baptist Hospital) - Retiform hemangioendothelioma
India, Kochi - Spindle cell hemangioendothelioma of hand

Dx: Spindle cell hemangioma (spindle cell hemangioendothelioma), hand

Spindle cell hemangioma and epithelioid hemangioendothelioma arising in an
area of lymphedema.

Am J Dermatopathol 2006 Jun;28(3): p223-7
Tronnier M; Vogelbruch M; Kutzner H

Spindle cell hemangioma: report of a case presenting in the oral cavity.

J Cutan Pathol 2007 Oct;34(10): p797-800
Sheehan M; Roumpf SO; Summerlin DJ; Billings SD

Spindle cell hemangioma (hemangioendothelioma) of the head and neck: case
report of an unusual (or underdiagnosed) tumor.

Oral Surg Oral Med Oral Pathol Oral Radiol Endod 2008 Feb;105(2): p216-21
Tosios KI; Gouveris I; Sklavounou A; Koutlas IG

Intramedullary spindle cell hemangioendothelioma of the thoracic spinal
cord--case report.

Neurol Med Chir (Tokyo) 2002 Jun;42(6): p259-63
Abdullah JM; Mutum SS; Nasuha NA; Biswal BM; Ariff AR

Spindle cell hemangioendothelioma.

Cutis 2007 Feb;79(2): p125-8
Dhawan SS; Raza M

Case 7

A two y/o girl developed this red-purple plaque on one of her eyelids.

Santa Barbara (Miramonte Laboratory) - Hemangiopericytoma
Arkansas (The Lab of Path, PA) - Capillary hemangioma
Georgia, Atlanta - Kaposiform hemangioendothelioma
Kansas (Peterson Laboratory Services) - Kaposiform hemangioendothelioma
Maryland, Baltimore - Kaposiform hemangioendothelioma
Michigan (Wayne State University) - Kaposi-like hemangioendothelioma
New Mexico, Albuquerque - Kaposiform hemangioendothelioma
Texas, Victoria - Hemangioma-angiomas
Hong Kong (Hong Kong Baptist Hospital) - Infantile hemangioendothelioma
India, Kochi - Kaposiform hemangioendothelioma of eyelid

Dx: Kaposiform hemangioendothelioma, eyelid

Kaposiform hemangioendothelioma: a study of 33 cases emphasizing its pathologic, immunophenotypic, and biologic uniqueness from juvenile hemangioma.

Am J Surg Pathol 2004 May;28(5): p559-68

Lyons LL; North PE; Mac-Moune Lai F; Stoler MH; Folpe AL; Weiss SW

Multifocal kaposiform haemangioendothelioma.

Virchows Arch 2006 Jun;448(6): p843-6

Deraedt K; Vander Poorten V; Van Geet C; Renard M; De Wever I; Sciote R

Laryngeal kaposiform hemangioendothelioma: case report and literature review.

Auris Nasus Larynx 2010 Apr;37(2): p258-62

Kim DW; Chung JH; Ahn SH; Kwon TK

Kaposiform hemangioendothelioma in multiple spinal levels without skin changes.

Clin Orthop Relat Res 2009 Sep;467(9): p2464-71

Lisle JW; Bradeen HA; Kalof AN

Capillary-lymphatic malformation, kaposiform hemangioendothelioma and delayed Kasabach-Merritt phenomenon.

Pediatr Dermatol 2011 Jul-Aug;28(4): p439-43

del Pozo J; Lopez-Gutierrez JC; Gomez-Tellado M; Nistal M; Soler R; Sacristan F; Tovar JA

Kaposiform hemangioendothelioma of the tongue in an adult.

Arch Otolaryngol Head Neck Surg 2009 Aug;135(8): p824-6

White JB; Pullman J; Wenig B; Smith RV

Kaposiform hemangioendothelioma in an adult with an unusual presentation.

J Eur Acad Dermatol Venereol 2006 May;20(5): p630-2

Case 8

A 29 y/o gay man noted enlargement of lymph nodes in the neck. The first biopsy showed “non-specific lymphadenitis”. Following this, he had persistent lymphadenopathy of both neck and inguinal nodes. He then developed a reversal of the T-helper/T-suppressor ratio. This specimen is from the right groin. It was 4.2 x 2.8 x 2.0 cm and had a hemorrhagic, firm cut surface.

Santa Barbara (Miramonte Laboratory) - Kaposi sarcoma
Arkansas (The Lab of Path, PA) - Kaposi sarcoma
Georgia, Atlanta - Kaposi sarcoma
Kansas (Peterson Laboratory Services) - Kaposi sarcoma
Maryland, Baltimore - Kaposi sarcoma in lymph node
Michigan (Wayne State University) - Kaposi sarcoma
New Mexico, Albuquerque - Kaposi sarcoma
Texas, Victoria - Nodular Kaposi sarcoma
Hong Kong (Hong Kong Baptist Hospital) - Kaposi sarcoma
India, Kochi - Kaposi sarcoma of lymph node

Dx: Kaposi sarcoma, lymph node

The pathobiology of Kaposi's sarcoma: advances since the onset of the AIDS epidemic.

J Cutan Pathol 2008 Nov;35 Suppl 2:40-4
Horenstein MG; Moontasri NJ; Cesarman E

Three cases of classic Kaposi's sarcoma with different subtypes of Kaposi's sarcoma-associated herpesvirus.

Int J Dermatol 2006 Jul;45(7): p843-6
Serwin AB; Mysliwiec H; Wilder N; Schwartz RA; Chodynicka B

Exclusive penile Kaposi's sarcoma: report of an HIV-negative man successfully treated with radiotherapy.

J Eur Acad Dermatol Venereol 2006 Mar;20(3): p318-20
Zargari O

Bilateral tonsillar and esophageal Kaposi sarcoma in an HIV-negative patient.

Ear Nose Throat J 2011 Jul;90(7): pE23-6
Ozbudak IH; Guney K; Mutlu D; Gelen T; Ozbilim G

AIDS-related primary Kaposi sarcoma of the nasopharynx.

Ear Nose Throat J 2011 Jun;90(6): pE1-4
Aelenk F; Yilmaz M; Asal K; Ekinici O; Tokgoz N

Disseminated Kaposi sarcoma in newly diagnosed HIV.

Infection 2011 Feb;39(1): p91
Wagner C; Preiswerk B; Weber R

Kaposi sarcoma incidence and survival among HIV-infected homosexual men after HIV seroconversion.

J Natl Cancer Inst 2010 Jun 2;102(11): p784-92

Lodi S; Guiguet M; Costagliola D; Fisher M; de Luca A; Porter K

Case 9

A 64 y/o woman presented with a mass in the region of her right parotid gland. It extended towards the ear and up under the scalp. At surgery a 9 cm mass was removed. It was positive for Vimentin and CD31 and HFVIII and negative for desmin, S100, CD34, CD45 and a CK cocktail.

Santa Barbara (Miramonte Laboratory) - Epithelioid angiosarcoma

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

Georgia, Atlanta - Epithelioid angiosarcoma

Kansas (Peterson Laboratory Services) - Angiosarcoma

Maryland, Baltimore - Epithelioid hemangioendothelioma

Michigan (Wayne State University) - Epithelioid hemangioepithelioma

New Mexico, Albuquerque - Epithelioid hemangioendothelioma

Texas, Victoria - Epithelioid hemangioendothelioma

Hong Kong (Hong Kong Baptist Hospital) - Angiosarcoma

India, Kochi - Epithelioid hemangioepithelioma of scalp

Dx: Epithelioid hemangioepithelioma, scalp

Cytologic features of epithelioid hemangioendothelioma.

Am J Clin Pathol 2011 Nov;136(5): p739-46

Murali R; Zarka MA; Ocal IT; Tazelaar HD

Spindle cell hemangioma and epithelioid hemangioendothelioma arising in an area of lymphedema.

Am J Dermatopathol 2006 Jun;28(3): p223-7

Tronnier M; Vogelbruch M; Kutzner H

Hepatic epithelioid hemangioendothelioma.

Dig Dis Sci 2011 Feb;56(2): p303-6

Liu YI; Brown SS; Elihu A; Bonham CA; Concepcion W; Longacre TA; Kamaya A

Clinical patterns and outcome in epithelioid hemangioendothelioma with or without pulmonary involvement: insights from an internet registry in the study of a rare cancer.

Chest 2011 Nov;140(5): p1312-8

Lau K; Massad M; Pollak C; Rubin C; Yeh J; Wang J; Edelman G; Yeh J;

Prasad S; Weinberg G

Prognostic factors and surgical indications of pulmonary epithelioid hemangioendothelioma: a review of the literature.

Ann Thorac Surg 2006 Dec;82(6): p2010-3

Bagan P; Hassan M; Le Pimpec Barthes F; Peyrard S; Souilamas R; Danel C; Riquet M

Pulmonary epithelioid hemangioendothelioma: report of a case with fine needle aspiration biopsy.

Acta Cytol 2006 Jul-Aug;50(4): p455-9

Carretero A; Elmberger PG; Skold CM; Collins BT

Case 10

An 80 year old man with greater than 1 year history of epistaxis had multiple procedures on an irregular red-pink mass on his nose. Following this particular biopsy, he died four weeks later. No autopsy.

Santa Barbara (Miramonte Laboratory) - Angiosarcoma

Arkansas (The Lab of Path, PA) - Angiosarcoma

Georgia, Atlanta - Angiosarcoma

Kansas (Peterson Laboratory Services) - Angiosarcoma

Maryland, Baltimore - Angiosarcoma

Michigan (Wayne State University) - Angiosarcoma

New Mexico, Albuquerque - Angiosarcoma

Texas, Victoria - Angiosarcoma

Hong Kong (Hong Kong Baptist Hospital) - Angiosarcoma

India, Kochi - Angiosarcoma of nose

Dx: Angiosarcoma, nose

A case of angiosarcoma of the nose.

J Dermatol 2002 Sep;29(9): p593-8

Nishiwaki Y; Tada Y; Nakatani C; Yamashina Y; Shirai T; Miyagawa S

Prolonged survival of angiosarcoma on the nose: a report of 3 cases.

J Am Acad Dermatol 2006 May;54(5): p883-5

Hanke CW; Sterling JB

Angiosarcoma of the face resembling rhinophyma.

J Am Acad Dermatol 2003 Sep;49(3): p530-1

Aguila LI; Sanchez JL

Sinonasal angiosarcoma? Not likely (a brief description of infarcted nasal polyps).

Ann Diagn Pathol 2010 Aug;14(4): p233-4

Heffner DK

Successful radiotherapy of facial angiosarcoma.

Int J Dermatol 2008 Nov;47(11): p1190-2

Gkalpakiotis S; Arenberger P; Vohradnikova O; Arenbergerova M