

**California Tumor Tissue Registry's  
Subscription "C" - Vol 2(2)  
October, 2008**

***"Vascular Neoplasms and Tumor-like Conditions"***

**Case 1**

17 y/o woman with a 3 yr history of unilateral breast enlargement. Specimen is from a breast excision.

**Diagnosis: Pseudoangiomatous stromal hyperplasia of breast**

Mammary pseudoangiomatous stromal hyperplasia. A reappraisal of the fine needle aspiration cytology findings. Ng WK; Chiu CS; Han KC; Chow JC. Acta Cytol 2003 May-Jun;47(3): p373-80.

Biphasic lesions of the breast. Lerwill MF. Semin Diagn Pathol 2004 Feb;21(1): p48-56.

Benign and malignant spindle cell lesions of the breast. Brogi E. Semin Diagn Pathol 2004 Feb;21(1): p57-64.

Nodular pseudoangiomatous stromal hyperplasia of mammary stroma in a case showing rapid tumor growth. Taira N; Ohsumi S; Aogi K; Maeba T; Kawamura S; Nishimura R; Takashima S. Breast Cancer 2005;12(4): p331-6.

Pseudoangiomatous stromal hyperplasia of the breast: sonographic features with histopathologic correlation. Mercado CL; Naidrich SA; Hamiele-Bena D; Fineberg SA; Buchbinder SS. Breast J 2004 Sep-Oct;10(5): p427-32.

**Case 2**

22 y/o woman with a neck mass. Excisional bx.

**Diagnosis: Intramuscular hemangioma, neck**

Clinical and imaging diagnoses of intramuscular hemangiomas: the wattle sign and case reports. Mandel L; Surattanont F. J Oral Maxillofac Surg 2004 Jun;62(6): p754-8.

Surgical treatment of hemangiomas of soft tissue. Tang P; Hornicek FJ; Gebhardt MC; Cates J; Mankin HJ. Clin Orthop Relat Res 2002 Jun;(399): p205-10.

Head and neck intramuscular haemangioma: report of two cases with unusual localization. Giudice M; Piazza C; Bolzoni A; Peretti G. Eur Arch Otorhinolaryngol 2003 Oct;260(9): p498-501.

Intramuscular hemangioma of the abdominal wall. Saad DF; Shehata BM; Patrick E; Gow KW. J Pediatr Surg 2006 Mar;41(3): p601-2.

Intramuscular hemangioma at the root of the neck. Panda NK; Reddy CE; Sharma SC; Powari M. Otolaryngol 2003 Jun;32(3): p206-9.

### **Case 3**

26 y/o man with a wrist mass.

#### **Diagnosis: Epithelioid hemangioma, wrist**

Spindle cell hemangioma and epithelioid hemangioendothelioma arising in an area of lymphedema. Tronnier M; Vogelbruch M; Kutzner H. Am J Dermatopathol 2006 Jun;28(3): p223-7.

Vascular tumors of bone: A study of 17 cases other than ordinary hemangioma, with an evaluation of the relationship of hemangioendothelioma of bone to epithelioid hemangioma, epithelioid hemangioendothelioma, and high-grade angiosarcoma. Evans HL; Raymond AK; Ayala AG. Hum Pathol 2003 Jul;34(7): p680-9.

Relationship between cutaneous epithelioid angiomatous nodule and epithelioid hemangioma. Zamecnik M. Am J Dermatopathol 2004 Aug;26(4): p351-2.

Epithelioid hemangioma of the penis: a clinicopathologic and immunohistochemical analysis of 19 cases, with special reference to exuberant examples often confused with epithelioid hemangioendothelioma and epithelioid angiosarcoma. Fetsch JF; Sesterhenn IA; Miettinen M; Davis CJ. Am J Surg Pathol 2004 Apr;28(4): p523-33.

Epithelioid hemangioendothelioma of the liver. Garcia-Botella A; Diez-Valladares L; Martin-Antona E; Sanchez-Pernaute A; Perez-Aguirre E; Ortega L; Rodriguez R; Balibrea JL. Hepatobiliary Pancreat Surg 2006;13(2): p167-71.

Epithelioid hemangioma: morphological presentation on aspiration smears. Sharma SG; Aron M; Kapila K; Ray R. Diagn Cytopathol 2006 Dec;34(12): p830-3.

### **Case 4**

37 y/o man with an enlarged spleen. The cut surface of the spleen revealed multiple hemorrhagic nodules. Vascular lining cells: CD68 and CD31 positive. Specimen is from a splenectomy.

#### **Diagnosis: Littoral cell angioma, spleen**

Test and teach. Incidentally discovered splenic vascular lesion. Littoral cell angioma of the spleen. Musgrave NJ; Williamson RM; O'Rourke NA; Searle JW. Pathology 2002 Dec;34(6): p579-81.

Image of the month. Littoral cell angioma. Cheng SP; Yang TL; Chen BF; Liu CL. Arch Surg 2005 Nov;140(11): p1127-8.

Littoral cell angioma: a case report and review. Harmon RL; Cerruto CA; Scheckner A. Curr Surg 2006 Sep-Oct;63(5): p345-50.

Metastasizing splenic littoral cell hemangioendothelioma. Fernandez S; Cook GW; Arber DA. Am J Surg Pathol 2006 Aug;30(8): p1036-40.

## **Case 5**

8 y/o boy with epistaxis and a nasal mass. Specimen is from a nasal mass excision.

### **Diagnosis: Nasopharyngeal angiofibroma**

Steroid hormone receptor expression in nasopharyngeal angiofibromas. Consistent expression of estrogen receptor beta. Montag AG; Tretiakova M; Richardson M. Am J Clin Pathol 2006 Jun;125(6): p832-7.

Definitive radiotherapy for juvenile nasopharyngeal angiofibroma. McAfee WJ; Morris CG; Amdur RJ; Werning JW; Mendenhall WM. Am J Clin Oncol 2006 Apr;29(2): p168-70.

Surgical approaches for nasopharyngeal angiofibroma: comparative analysis and current trends. Tosun F; Ozer C; Gerek M; Yetiser S. J Craniofac Surg 2006 Jan;17(1): p15-20.

Recent advances in the treatment of juvenile angiofibroma. Enepekides DJ. Curr Opin Otolaryngol Head Neck Surg 2004 Dec;12(6): p495-9.

Juvenile angiofibromas: changing surgical concept over the last 20 years. Mann WJ; Jecker P; Amedee. Laryngoscope 2004 Feb;114(2): p291-3.

Growth factors and receptors in juvenile nasopharyngeal angiofibroma and nasal polyps: an immunohistochemical study. Zhang PJ; Weber R; Liang HH; Pasha TL; Li Volsi VA. Arch Pathol Lab Med 2003 Nov;127(11): p1480-4.

## **Case 6**

25 y/o man with a painful superficial forearm nodule.

### **Diagnosis: Glomangioma, forearm**

Multiple hereditary glomangiomas: successful treatment with sclerotherapy. Parsi K; Kossard S. Australas J Dermatol 2002 Feb;43(1): p43-7.

Multiple glomangiomas: potential for confusion with blue rubber bleb nevus syndrome. Lu R; Krathen RA; Sanchez RL; May NC; Hsu S. J Am Acad Dermatol 2005 Apr;52(4): p731-2.

Glomuvenous malformation (glomangioma) and venous malformation: distinct clinicopathologic and genetic entities. Boon LM; Mulliken JB; Enjolras O; Vikkula M. Arch Dermatol 2004 Aug;140(8): p971-6.

CD34-positive glomus tumor: clinicopathologic and immunohistochemical analysis of six cases with myxoid stromal changes. Mentzel T; Hugel H; Kutzner H. J Cutan Pathol 2002 Aug;29(7): p421-5.

Primary glomangioma of the liver: a case report and review of the literature. Jaiswal VR; Champine JG; Sharma S; Molberg KH. Arch Pathol Lab Med 2004 Mar;128(3): pe46-9.

## **Case 7**

74 y/o woman with multiple liver nodules. Specimen is from an incisional biopsy. Lesional cells were CD31 and CD 34 positive.

**Diagnosis: Epithelioid hemangioendothelioma, liver**

Chromosome analysis and molecular cytogenetic investigations of an epithelioid hemangioendothelioma. Tsarouha H; Kyriazoglou AI; Ribeiro FR; Teixeira MR; Agnantis N; Pandis N. Cancer Genet Cytogenet 2006 Sep;169(2): p164-8.

Surgical treatment of primary hepatic epithelioid hemangioendothelioma. Mehrabi A; Kashfi A; Schemmer P; Sauer P; Encke J; Fonouni H; Friess H; Weitz J; Schmidt J; Buchler MW; Kraus TW. Transplantation 2005 Sep 27;80(1 Suppl): pp109-12.

Right upper quadrant pain and fever in a 41-year-old man. Epithelioid hemangioendothelioma of the liver with metastasis to porta hepatis lymph nodes and lung. Aalaei S; Jakate S. Arch Pathol Lab Med 2005 May;129(5): pe134-5.

Pathologic quiz case: multiple liver and lung nodules. Epithelioid hemangioendothelioma of the liver. Blaney S; Fung C; Garcia C. Arch Pathol Lab Med 2004 Dec;128(12): pe183-5.

Epithelioid sarcoma-like hemangioendothelioma. Billings SD; Folpe AL; Weiss SW. Am J Surg Pathol 2003 Jan;27(1): p48-57.

## **Case 8**

52 y/o diabetic woman on dialysis developed this mass in the region of the shunt.

**Diagnosis: Angiosarcoma associated with AV graft**

Angiosarcoma arising in an arteriovenous fistula site in a renal transplant patient: a case report and literature review. Farag R; Schulak JA; Abdul-Karim FW; Wasman JK. Clin Nephrol 2005 May;63(5): p408-12.

Angiosarcoma in a chronically immunosuppressed renal transplant recipient: report of a case and review of the literature. Ahmed I; Hamacher KL. Am J Dermatopathol 2002 Aug;24(4): p330-5.

### **Case 9**

56 y/o female with a 5 cm breast mass. Specimen is from a mastectomy.

#### **Diagnosis: Angiosarcoma, breast**

Epithelioid angiosarcoma of the breast involving the skin: a highly aggressive neoplasm readily mistaken for mammary carcinoma. Farina MC; Casado V; Renedo G; Estevez L; Martin L; Requena L. J Cutan Pathol 2003 Feb;30(2): p152-6.

Diagnostic cytopathology in type II angiosarcoma of the breast: a case report. Kiyozuka Y; Koyama H; Nakata M; Matsuyama T; Nikaido Y; Shimano N; Tsubura A. Acta Cytol 2005 Sep-Oct;49(5): p560-6.

Papillary endothelial hyperplasia of the breast: the great impostor for angiosarcoma: a clinicopathologic review of 17 cases. Branton PA; Lininger R; Tavassoli FA. Int J Surg Pathol 2003 Apr;11(2): p83-7.

Cutaneous angiosarcoma of breast after lumpectomy, axillary lymph node dissection, and radiotherapy for primary breast carcinoma: case report and review of the literature. Mermershtain W; Cohen AD; Koretz M; Cohen Y. Am J Clin Oncol 2002 Dec;25(6): p597-8.

Vascular tumors of the skin: a selective review. Hunt SJ; Santa Cruz DJ. Semin Diagn Pathol 2004 Aug;21(3): p166-218.

### **Case 10**

44 y/o man with cardiac surgery for a suspected aortic aneurysm. An atrial mass was discovered and biopsied. Lesional cells were CD31 and CD34 positive. Case seen by Dr. Christopher Fletcher, Boston, MA in consultation.

#### **Diagnosis: Angiosarcoma, Cardiac atrium**

Primary cardiac angiosarcoma: case report and review of the literature. Kurian KC; Weisshaar D; Parekh H; Berry GJ; Reitz B. Cardiovasc Pathol 2006 Mar-Apr;15(2): p110-2.

Cardiac angiosarcoma. Amonkar GP; Deshpande JR. Cardiovasc Pathol 2006 Jan-Feb;15(1): p57-8.

Primary cardiac tumours: eighteen years of surgical experience on 21 patients. Piazza N; Chughtai T; Toledano K; Sampalis J; Liao C; Morin JF. Can J Cardiol 2004 Dec;20(14): p1443-8.

Cardiac angiosarcoma arising from pulmonary artery: endovascular treatment.  
Totaro M; Miraldi F; Ghiribelli C; Biscosi C. Ann Thorac Surg 2004  
Oct;78(4): p1468-70.

Right atrial mass presenting as cardiac tamponade. Nurkalem Z; Gorgulu S;  
Gumrukcu G; Eren M. Int J Cardiol 2006 Sep 20;112(2): p20-2.