

**California Tumor Tissue Registry's  
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**Case 1**

A male infant was born at 26 wks gestation and was stillborn. It, weighed 1740 grams and was markedly edematous. A 7 cm mass occupied 75% of the thoracic cavity and appeared to arise from an anomalous middle pulmonary artery and bronchus that could be easily dissected off the lung. The mass had a spongy texture with multiple cysts up to 3 mm and large amounts of mucus.

**Diagnosis:**

*Congenital cystic adenomatoid malformation, lung*

Cystic adenomatoid change is common to various forms of cystic lung diseases of children: a clinicopathologic analysis of 10 cases with emphasis on tracing the bronchial tree. Imai Y; Mark EJ. Arch Pathol Lab Med 2002 Aug;126(8): p934-40.

Congenital cystic adenomatoid malformation of the lung in adults: clinical and CT evaluation of seven patients. Oh BJ; Lee JS; Kim JS; Lim CM; Koh Y. Respirology 2006 Jul;11(4): p496-501.

Prenatal diagnosis and management of congenital cystic adenomatoid malformation of the lung. Duncombe GJ; Dickinson JE; Kikiros CS. Am J Obstet Gynecol 2002 Oct;187(4): p950-4.

Cytogenetic and p53 profiles in congenital cystic adenomatoid malformation: insights into its relationship with pleuropulmonary blastoma. Vargas SO; Korpershoek E; Kozakewich HP; de Krijger RR; Fletcher JA; Perez-Atayde AR. Pediatr Dev Pathol 2006 May-Jun;9(3): p190-5.

**Case 2**

20 y/o woman presented with Cushing's syndrome. Nine months prior to admission bloody ascites was noted at umbilical herniorrhaphy. Laparotomy showed extensive endometriosis. She was treated with Enovid for the two months prior to presentation. At surgery, a 2.5 cm left adrenal adenoma was removed. Additionally, a 9.7 cm nodule, indicated to also be from the region of the left adrenal gland was removed. This slide shows what appeared to be white friable tumor with hemorrhage involving adipose tissue.

**Diagnosis:**

*Peritoneal endometriosis with decidualization*

Laboratory testing for endometriosis. Bedaiwy MA; Falcone T. Clin Chim Acta 2004 Feb;340(1-2): p41-56.

Peritoneal defects and the development of endometriosis in relation to the timing of endoscopic surgery during the menstrual cycle. Schweppe KW; Ring D. Fertil Steril 2002 Oct;78(4): p763-6.

Peritoneal endometriosis in the broad ligament presenting as a large tumor. Itoga T; Matsumoto T; Suzuki C; Miyazaki R; Kurosaki Y; Suda K; Kinoshita K. Pathol Int 2002 May-Jun;52(5-6): p410-5.

Polypoid endometriosis: a clinicopathologic analysis of 24 cases and a review of the literature. Parker RL; Dadmanesh F; Young RH; Clement PB. Am J Surg Pathol 2004 Mar;28(3): p285-97.

Pathogenesis of endometriosis. Seli E; Berkkanoglu M; Arici A. Obstet Gynecol Clin North Am 2003 Mar;30(1): p41-61.

Endometrial glands in ascites secondary to endometriosis. Zeppa P; Vetrani A; Cozzolino I; Palombini L. Diagn Cytopathol 2004 Feb;30(2): p131-2.

### **Case 3**

28 y/o Hispanic male with a 1.0 cm cyst involving the left chest wall.

#### **Diagnosis:**

*Cysticercosis - Taenia solium, chest wall*

Purging the worm: management of Taenia solium taeniasis. Rajshekhar V. Comment On: RefSource:Lancet. 2004 Mar 20; 363(9413):949-50.

Diagnosis, treatment and control of Taenia solium cysticercosis. Garcia HH; Gonzalez AE; Gilman RH. Curr Opin Infect Dis 2003 Oct;16(5): p411-9.

Subcutaneous and cerebral cysticercosis. Uthida-Tanaka AM; Sampaio MC; Velho PE; Damasceno BP; Cintra ML; de Moraes AM; Zanardi V. J Am Acad Dermatol 2004 Feb;50(2 Suppl): p14-7.

PCR tools for the differential diagnosis of Taenia saginata and Taenia solium taeniasis/cysticercosis from different geographical locations. Gonzalez LM; Montero E; Puente S; Lopez-Velez R; Hernandez M; Sciutto E; Harrison LJ; Parkhouse RM; Garate T. Diagn Microbiol Infect Dis 2002 Apr;42(4): p243-9.

### **Case 4**

44 y/o woman with a suspicious mammogram. This slide is from the breast biopsy.

#### **Diagnosis:**

*Radial scar (Radial sclerosing lesion), breast*

All radial scars/complex sclerosing lesions seen on breast screening mammograms should be excised. Fasih T; Jain M; Shrimankar J; Staunton M; Hubbard J; Griffith CD. Eur J Surg Oncol 2005 Dec;31(10): p1125-8.

Radial scars of the breast and breast carcinomas have similar alterations in expression of factors involved in vascular stroma formation. Jacobs TW; Schnitt SJ; Tan X; Brown LF. Hum Pathol 2002 Jan;33(1): p29-38.

Fourteen-gauge needle core biopsy of mammographically evident radial scars: is excision necessary? Brodie C; O'Doherty A; Quinn C

Comment On: Cancer. 2003 Jan 15; 97(2):345-51.

Radial scar, complex sclerosing lesion and risk of breast cancer. Analysis of 175 cases in Northern Ireland. Patterson JA; Scott M; Anderson N; Kirk SJ. Eur J Surg Oncol 2004 Dec;30(10): p1065-8.

Management of radial scars found at percutaneous breast biopsy. Becker L; Trop I; David J; Latour M; Ouimet-Oliva D; Gaboury L; Lalonde L. Can Assoc Radiol J 2006 Apr;57(2): p72-8.

### **Case 5**

Breast lesion in a 72 y/o woman.

#### **Diagnosis:**

*Mammary carcinoid tumor*

Neuroendocrine tumor of the breast. Valdes EK; Feldman SM; Krassilnik N. Am Surg 2006 Feb;72(2): p185-7.

Primary small bowel carcinoid tumor with bilateral breast metastases: report of 2 cases with different clinical presentations. Mosunjac MB; Kochhar R; Mosunjac MI; Lau SK. Arch Pathol Lab Med 2004 Mar;128(3): p292-7.

Carcinoid tumors in the breast. Upalakalin JN; Collins LC; Tawa N; Parangi S. Am J Surg 2006 Jun;191(6): p799-805.

Diffuse neuroendocrine differentiation in a morphologically composite mammary infiltrating ductal carcinoma: a case report and review of the literature. David O; Bhattacharjee M. Arch Pathol Lab Med 2003 Mar;127(3): p131-4.

Colonic carcinoid metastatic to the breast. Kanthan R; Negreiros F; Kanthan SC. Arch Pathol Lab Med 2003 Oct;127(10): p1373-5.

### **Case 6**

Endometrium in a 35 y/o woman with CIS of the cervix.

#### **Diagnosis:**

*Uterine implantation site*

Placental site trophoblastic tumor: A study of 55 cases and review of the literature emphasizing factors of prognostic significance. Baergen RN; Rutgers JL; Young RH; Osann K; Scully RE. Gynecol Oncol 2006 Mar;100(3): p511-20.

Placental site trophoblastic tumour: clinical features and management. SO - Gynecol Oncol 2005 Dec;99(3): p603-7. Hassadia A; Gillespie A; Tidy J; Everard RGNJ; Wells M; Coleman R; Hancock B. YCR Academic Unit of Clinical Oncology, The University of Sheffield, Weston Park Hospital, Whitham Road, Sheffield, S10 2SJ, UK.

Expression of Mel-CAM in implantation site intermediate trophoblastic cell line, IST-1, limits its migration on uterine smooth muscle cells. Shih I; Wang T; Wu T; Kurman RJ; Gearhart JD. J Cell Sci 1998 Sep;111 (Pt 17): p2655-64.

Placental site nodule and characterization of distinctive types of intermediate trophoblast. Shih IM; Seidman JD; Kurman RJ. Hum Pathol 1999 Jun;30(6): p687-94.

### **Case 7**

Ovarian neoplasm from a 3 y/o female with precocious puberty.

#### **Diagnosis:**

*Juvenile granulosa cell tumor, ovary*

Immunoreactivity of ovarian juvenile granulosa cell tumours with epithelial membrane antigen. McCluggage WG. Histopathology 2005 Feb;46(2): p235-6.

Cytologic features of granulosa cell tumors in fluids and fine needle aspiration specimens. Lal A; Bourtsos EP; Nayar R; De Frias DV. Acta Cytol 2004 May-Jun;48(3): p315-20.

Retroperitoneal nodal metastasis in primary and recurrent granulosa cell tumors of the ovary. Abu-Rustum NR; Restivo A; Ivy J; Soslow R; Sabbatini P; Sonoda Y; Barakat RR; Chi DS. Gynecol Oncol 2006 Oct;103(1): p31-4.

Pseudo-precocious puberty caused by a juvenile granulosa cell tumour secreting androstenedione, inhibin and insulin-like growth factor-I. Chan LF; Storr HL; Scheimberg I; Perry LA; Banerjee K; Miraki-Moud F; Camacho-Hubner C; Savage MO. J Pediatr Endocrinol Metab 2004 Apr;17(4): p679-84.

Juvenile granulosa cell tumor of the ovary in an elderly woman. Koyuncuoglu M; Sis B; Ozen E; Onvural A; Topal N. Acta Obstet Gynecol Scand 2005 Oct;84(10): p1020-1

### **Case 8**

75 y/o woman with a 13 cm, 495 gram, mass in the right anterior thigh. The tumor had been noticed for three years.

#### **Diagnosis:**

*Plasmacytoma with amyloid, thigh*

Low CD27 expression in plasma cell dyscrasias correlates with high-risk disease: an immunohistochemical analysis. Morgan TK; Zhao S; Chang KL; Haddix TL; Domanay E; Cornbleet PJ; Arber DA; Natkunam Y. Am J Clin Pathol 2006 Oct;126(4): p545-51.

Primary extramedullary plasmacytoma and multiple myeloma: phenotypic differences revealed by immunohistochemical analysis. Kremer M; Ott G; Nathrath M; Specht K; Stecker K; Alexiou C; Quintanilla-Martinez L; Fend F. J Pathol 2005 Jan;205(1): p92-101.

CD117, but not lysozyme, is positive in cutaneous plasmacytoma. Bayer-Garner IB; Schwartz MR; Lin P; Smoller BR. Arch Pathol Lab Med 2003 Dec;127(12): p1596-8.

Plasmacytoma with aberrant expression of myeloid markers, T-cell markers, and cytokeratin. Shin JS; Stopyra GA; Warhol MJ; Multhaupt HA. J Histochem Cytochem 2001 Jun;49(6): p791-2.

Soft tissue plasmacytoma diagnosed by fine needle aspiration cytology. Bhat RV; Iyengar KR. Acta Cytol 2001 May-Jun;45(3): p481-3

### **Case 9**

3 y/o girl with a lesion involving the right femur.

#### **Diagnosis:**

*Langerhans cell histiocytosis (Histiocytosis X), femur*

Langerhans cell histiocytosis research. Past, present, and future. Nezelof C; Basset F. Hematol Oncol Clin North Am 1998 Apr;12(2): p385-406.

Langerhans cell histiocytosis diagnosed by fine needle biopsy. Harbour JW; Char DH; Ljung BM; Luna-Fineman S. Arch Ophthalmol 1997 Sep;115(9): p1212-3.

Langerhans cells in Langerhans cell granulomatosis are not actively proliferating cells. Brabencova E; Tazi A; Lorenzato M; Bonay M; Kambouchner M; Emile JF; Hance AJ; Soler P. Am J Pathol 1998 May;152(5): p1143-9.

Langerhans cell histiocytosis with transformation to acute leukemia showing 45,X, t(8; 21), 5q-, -Y karyotype. Aslan V; Akay OM; Durak B; Kabukcuoglu S; Gulbas Z. Leuk Lymphoma 2002 Aug;43(8): p1683-5.

### **Case 10**

40 y/o man with left axillary lymphadenopathy.

#### **Diagnosis:**

*Hodgkins Disease - Mixed Cellularity, axillary lymph node*

Management of Hodgkin lymphoma. Ansell SM; Armitage JO. Mayo Clin Proc 2006 Mar;81(3): p419-26.

Case of relapsed CD20(+) mixed-cellularity Hodgkin disease treated with sequential rituximab and radiotherapy. Karamouzis MV; Apostolikas N; Georganta C; Lainakis G; Kandylis K; Rigatos G. Am J Hematol 2004 Dec;77(4): p418-9.

Prognostic factors and treatment outcome in childhood Hodgkin disease. Oguz A; Karadeniz C; Okur FV; Citak EC; Pinarli FG; Bora H; Akyurek N. Pediatr Blood Cancer 2005 Oct 15;45(5): p670-5.

Is classical Hodgkin's disease indeed a single entity? Levy A; Armon Y; Gopas J; Ariad S; Prinsloo I; Shpilberg O; Kapelushnik J; Sacks M; Benharroch D. Leuk Lymphoma 2002 Sep;43(9): p1813-8.

HIV-associated Hodgkin lymphoma: a clinicopathologic and immunophenotypic study of 45 cases.

SO - Am J Clin Pathol 2004 May;121(5): p727-38

AU - Thompson LD; Fisher SI; Chu WS; Nelson A; Abbondanzo SL