



CALIFORNIA  
TUMOR TISSUE REGISTRY

## *GYNECOLOGIC PATHOLOGY*

Minutes – Subscription B

March 2012



### **SUGGESTED READING (General Topics from Recent Literature):**

- Histopathologic Follow-Up and Human Papillomavirus DNA Test Results in 290 Patients with High-Grade Squamous Intraepithelial Lesion Papanicolaou Test Results. Gao FF, Austin RM and Zhao C. *Cancer Cytopathol* 2011; 119:377-386.
- Amelanotic Melanoma. A Detailed Morphologic Analysis With Clinicopathologic Correlation of 75 Cases. Cheung WL, Patel RR, et al. *J Cutan Pathol* 2012; 39:33-39.
- HPV Analysis in Distinguishing Second Primary Tumors From Lung Metastases in Patients with Head and Neck Squamous Cell Carcinoma. Bishop JA, Ogawa T, et al. *Am J Surg Pathol* 2012; 36:142-148.
- Prognostic Significance of Bcl-2 in Invasive mammary Carcinomas. A Comparative Clinicopathologic Study Between “Triple-Negative” and Non-“Triple-Negative” Tumors. Tawfik K, Kimler BF, et al. *Hum Pathol* 2012; 43:23-30.
- Diagnostic Accuracy of Plasma Glial Fibrillary Acidic Protein for Differentiating Intracerebral Hemorrhage and Cerebral Ischemia in Patients with Symptoms of Acute Stroke. Foerch C, Niessner M, et al. *Clin Chem* 2012; 58:237-245.

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## **FILE DIAGNOSES**

**CTTR Subscription B**

**March 2012**

**Case 1:**

Angiomyofibroblastoma, vulva  
T-80140, M-91203

**Case 2:**

Granulosa cell tumor, ovary  
T-87000, M-86203

**Case 3:**

Sertoli-Leydig cell tumor with heterologous rhabdomyosarcomatous elements, ovary  
T-87000, M-86310

**Case 4:**

Endometrioid carcinoma, ovary  
T-86921, M-81403

**Case 5:**

Papillary serous borderline tumor, ovary  
T-87000, M-80001

**Case 6:**

Papillary serous carcinoma, ovary  
T-87000, M-80503

**Case 7:**

Malignant Brenner tumor, ovary  
T-87000, M-90000

**Case 8:**

Endometrial stromal sarcoma, predominantly low grade, uterus  
T-82000, M-89300

**Case 9:**

Symplastic leiomyoma (“atypical leiomyoma”, “leiomyoma with bizarre nuclei”), uterus  
T-82000, M-88900

**Case 10:**

Leiomyosarcoma, uterus  
T-82000, M-88900

Glendale - Angiomyofibroblastoma  
Loma Linda - Angioma of vulva  
Newport Beach (College Hospital) - Glomus tumor  
Orange (UCI Medical Center) - Angiomyofibroblastoma  
San Diego (Naval Medical Center) - Angiomyofibroblastoma  
Alabama (Cunningham Pathology) - Hemangiopericytoma  
Florida, Orlando - Angiomyofibroblastoma  
Georgia, Atlanta - Angiomyofibroblastoma  
Illinois (Heartland Regional Medical Center) - Angiomyofibroblastoma  
Kansas (Coffeyville Regional Medical Center) - Ectopic breast tissue  
Kansas (Peterson Laboratory Services) - Angiomyofibroblastoma (2)  
Maryland (University of Maryland) - Angiomyofibroblastoma  
Michigan (Henry Ford Hospital) - Angiomyofibroblastoma  
New York (Buffalo General Hospital) - Angiomyofibroblastoma  
New York (SUNY Downstate Medical Center) - Angiomyofibroblastoma  
North Carolina (Wake Forest University School of Medicine) - Angiomyofibroblastoma, lipomatous variant  
Ohio (University of Toledo) - Angiofibroblastoma  
Oregon (Oregon Health and Science University Residents) - Angiomyofibroblastoma  
Pennsylvania (Drexel University College of Medicine) - Angiomyofibroblastoma  
Pennsylvania (Wilkes-Barre General Hospital) - Angiomyofibroblastoma, vulva  
Puerto Rico (University of Puerto Rico) - Angiomyofibroblastoma/glomus tumor/angiomyolipoma  
South Carolina (Lexington Medical Center) - Hemangioma  
Tennessee, Knoxville - Angiomyofibroblastoma  
Texas, Crystal Beach - Bartholin gland carcinoma  
Texas, Lubbock - Angiolipoma  
Wisconsin, Madison - Angiomyofibroblastoma  
Wisconsin (The Medical College of Wisconsin) - Angiomyofibroblastoma, lipomatous variant  
Wisconsin (Medical Assessment and Consultation, S.C.) - Benign vascular neoplasm, suggestive of glomus tumor  
Australia (St. Vincent's Hospital) - Angiomyofibroblastoma  
Canada (Pasqua Hospital) - Angiomyofibroblastoma  
Ireland (Connelly Hospital) - Glomus tumor  
Ireland (University College Hospital) - Angiomyofibroblastoma  
Japan (Asashi General Hospital) - Glomus tumor  
Japan (Setagaya-Ku, Tokyo) - Angiomyofibroblastoma (2)  
Saudi Arabia (King Khalid University Hospital) - Angiomyofibroblastoma  
United Kingdom (Oxford University) - Angiomyofibroblastoma

**Case 1 - Diagnosis:**

Angiomyofibroblastoma, vulva  
 T-80140, M-91203

**Case 1 - References:**

Lipomatous variant of angiomyofibroblastoma: report of two cases and review of the literature. *Int J Gynecol Pathol* 2005; Apr;24(2): p196-200. Cao D; Srodon M; Montgomery EA; Kurman RJ.  
 Lipomatous angiomyofibroblastoma: a case report of a unique vulvar mass.. *J Reprod Med* 2011; Jul-Aug;56(7-8): p347-50. Vora S; Gaba ND; Stamatakis MD.  
 Angiomyofibroblastoma of the vulva: a clinicopathological and immunohistochemical analysis of a rare benign mesenchymal tumor. *Eur J Gynaecol Oncol* 2011;32(3): p353-5. Kairi-Vassilatou E; Dastamani C, et al.  
 Angiomyofibroblastoma of the vulva. *Int J Gynecol Cancer* 2002; Mar-Apr;12(2): p228-3. Nasu K; Fujisawa K, et al.  
 Angiomyofibroblastoma of the vulva: report of a case with immunohistochemical and molecular analysis. *Int J Gynecol Pathol* 2003; Jul;22(3): p277-84. Horiguchi H; Matsui-Horiguchi M, et al.  
 Huge pedunculated angiomyofibroblastoma of the vulva. *Int J Clin Oncol* 2010; Apr;15(2): p201-5. Nagai K; Aadachi K; Saito H.

Glendale - Carcinoid  
Loma Linda - Granulosa cell tumor  
Newport Beach (College Hospital) - Granulosa cell tumor  
Orange (UCI Medical Center) - Granulosa cell tumor  
San Diego (Naval Medical Center) - Carcinoid  
Alabama (Cunningham Pathology) - Endometrioid carcinoma  
Florida, Orlando - Adult granulosa cell tumor  
Georgia, Atlanta - Endometrioid adenocarcinoma  
Illinois (Heartland Regional Medical Center) - Carcinoid tumor  
Kansas (Coffeyville Regional Medical Center) - Endometrioid adenocarcinoma  
Kansas (Peterson Laboratory Services) - Endometrioid carcinoma (1); Feal adenxal tumor of Walffian origin (1)  
Maryland (University of Maryland) - Insular carcinoid tumor  
Michigan (Henry Ford Hospital) - Granulosa cell tumor  
New York (Buffalo General Hospital) - Adult granulosa cell tumor  
New York (SUNY Downstate Medical Center) - Carcinoid tumor  
North Carolina (Wake Forest University School of Medicine) - Malignant Brenner tumor  
Ohio (University of Toledo) - Endometrioid adenocarcinoma  
Oregon (Oregon Health and Science University Residents) - Neuroendocrine tumor, well-differentiated (carcinoid)  
Pennsylvania (Drexel University College of Medicine) - Sertoli-Leydig cell tumor, low grade  
Pennsylvania (Wilkes-Barre General Hospital) - Primary ovarian carcinoid tumor  
Puerto Rico (University of Puerto Rico) - Granulosa cell tumor/struma carcinoid  
South Carolina (Lexington Medical Center) - Struma carcinoid  
Tennessee, Knoxville - Carcinoid tumor  
Texas, Crystal Beach - Papillary carcinoma endometrioid  
Texas, Lubbock - Granulosa cell tumor  
Wisconsin, Madison - Ovarian carcinoid tumor  
Wisconsin (The Medical College of Wisconsin) - Carcinoid tumor, ovary  
Wisconsin (Medical Assessment and Consultation, S.C.) - Insular carcinoid tumor vs. adult granulosa cell tumor  
 (would do IHC); favor carcinoid tumor  
Australia (St. Vincent's Hospital) - Neuroendocrine carcinoma, metastasis vs. monodermal teratoma  
Canada (Pasqua Hospital) - Strumal carcinoid  
Ireland (Connelly Hospital) - Adult granulosa cell tumor  
Ireland (University College Hospital) - Adult granulosa cell tumor  
Japan (Asashi General Hospital) - Carcinoid tumor  
Japan (Setagaya-Ku, Tokyo) - Endometrioid adenocarcinoma (2)  
Saudi Arabia (King Khalid University Hospital) - Well-differentiated neuroendocrine cell tumor/carcinoid  
United Kingdom (Oxford University) - Insular carcinoid

**Case 2 - Diagnosis:**

Granulosa cell tumor, ovary  
 T-87000, M-86203

**Case 2 - References:**

Hormonal treatment of a recurrent granulosa cell tumor of the ovary: case report and review of the literature. *Gynecol Oncol* 2005; Mar;96(3): p865-9. Hardy RD; Bell JG, et al.  
 Long natural history of recurrent granulosa cell tumor of the ovary 23 years after initial diagnosis: a case report and review of the literature. *Gynecol Oncol* 2005; Jan;96(1): p235-40. Crew KD; Cohen MH, et al.  
 Cytologic features of granulosa cell tumors in fluids and fine needle aspiration specimens. *Acta Cytol* 2004; May-Jun;48(3): p315-20. Lal A; Bourtsos EP, et al.  
 Granulosa cell tumor of the ovary: cytologic findings. *Acta Cytol* 2010; Jul-Aug;54(4): p551-9. Kavuri S; Kulkarni R; Reid-Nicholson M.  
 Glomus tumor of the ovary masquerading as granulosa cell tumor: case report. *Int J Gynecol Pathol* 2010; Jan;29(1): p24-6. Slone SP; Moore GD, et al.  
 Adult granulosa cell tumor of the ovary: fine-needle-aspiration cytology of 10 cases and review of literature. *Diagn Cytopathol* 2008; May;36(5): p297-302. Ali S; Gattuso P, et al.

Glendale - Poorly differentiated sertoli-leydig cell tumor with heterologous stromal elements  
Loma Linda - Granulosa theca cell tumor, ovary  
Newport Beach (College Hospital) - Metastatic adenocarcinoma  
Orange (UCI Medical Center) - Sertoli Leydig cell tumor  
San Diego (Naval Medical Center) - Sertoli Leydig cell tumor  
Alabama (Cunningham Pathology) - Sertoli Leydig tumor  
Florida, Orlando - Sertoli Leydig cell tumor  
Georgia, Atlanta - Sertoli Leydig cell tumor  
Illinois (Heartland Regional Medical Center) - Sertoli Leydig tumor (with heterologous elements)  
Kansas (Coffeyville Regional Medical Center) - Granulosa cell tumor  
Kansas (Peterson Laboratory Services) - Granulosa cell tumor (1); Juvenile granulosa cell tumor (1)  
Maryland (University of Maryland) - Intermediate Sertoli-Leydig cell tumor with heterologous rhabdomyosarcoma  
Michigan (Henry Ford Hospital) - Sertoli cell tumor  
New York (Buffalo General Hospital) - Poorly differentiated Sertoli Leydig cell tumor  
New York (SUNY Downstate Medical Center) - Sertoli Leydig cell tumor  
North Carolina (Wake Forest University School of Medicine) - Sex cord stromal neoplasm, favor Sertoli-Leydig cell tumor  
Ohio (University of Toledo) - Sertoli cell tumor  
Oregon (Oregon Health and Science University Residents) - Sertoli Leydig cell tumor  
Pennsylvania (Drexel University College of Medicine) - Sertoli Leydig cell tumor, high grade with heterologous elements (rhabdomyosarcoma)  
Pennsylvania (Wilkes-Barre General Hospital) - Gynandroblastoma, ovary  
Puerto Rico (University of Puerto Rico) - Sertoli-Leydig cell tumor/gynandroblastoma  
South Carolina (Lexington Medical Center) - Sertoli Leydig cell tumor  
Tennessee, Knoxville - Sertoli Leydig cell tumor  
Texas, Crystal Beach - Granulosa cell tumor  
Texas, Lubbock - Sertoli cell tumor, intermediate grade  
Wisconsin, Madison - Sex cord stroma tumor (Sertoli-Leydig cell tumor)  
Wisconsin (The Medical College of Wisconsin) - Adult granulosa cell tumor  
Wisconsin (Medical Assessment and Consultation, S.C.) - Gynandroblastoma (juvenile granulosa cell tumor and Sertoli Leydig cell tumor)  
Australia (St. Vincent's Hospital) - Moderately differentiated Sertoli-Leydig cell tumor  
Canada (Pasqua Hospital) - Sertoli Leydig cell tumor with heterologous elements (rhabdomyosarcoma)  
Ireland (Connelly Hospital) - Sertoli-Leydig cell tumor, intermediate differentiation  
Ireland (University College Hospital) - Sertoli-Leydig cell tumor  
Japan (Asahi General Hospital) - Adult granulosa cell tumor  
Japan (Setagaya-Ku, Tokyo) - Granulosa cell tumor (2)  
Saudi Arabia (King Khalid University Hospital) - Sertoli Leydig cell tumor  
United Kingdom (Oxford University) - Moderately differentiated Sertoli Leydig cell tumor

**Case 3 - Diagnosis:**

Sertoli-Leydig cell tumor with heterologous rhabdomyosarcomatous elements, ovary  
 T-87000, M-86310

**Case 3 - References:**

Ovarian Sertoli-Leydig cell tumor of intermediate grade with heterologous elements of rhabdomyosarcoma. A case report and a review of the literature. *Ann Diagn Pathol* 2006; Oct;10(5): p288-93. Grove A; Vestergaard V.  
 A rare ovarian tumor - Sertoli-Leydig cell tumor with heterologous element. *Med Gen Med* 2007; 9(4): p44. Tandon R; Goel P, et al.  
 Comparative immunohistochemical analysis of granulosa and sertoli components in ovarian sex cord-stromal tumors with mixed differentiation: potential implications for derivation of sertoli differentiation in ovarian tumors. *Int J Gynecol Pathol* 2004 ;Apr;23(2): p151-61. Vang R; Herrmann ME; Tavassoli FA.  
 Ovarian sertoli-leydig cell tumors with pseudoendometrioid tubules (pseudoendometrioid sertoli-leydig cell tumors). *Am J Surg Pathol* 2007; Apr;31(4): p592-7. McCluggage WG; Young RH.

Cytologic, immunocytologic, histopathologic and immunohistologic diagnosis of the poorly differentiated sertoli-leydig cell tumor. *Acta Cytol* 2011;55(4): p382-6. Soleimanpour H; Shirian S, et al.

**Case No. 4, Accession No. 31165**

**March 2012**

Glendale - Endometrioid carcinoma  
Loma Linda - Sertoli cell tumor  
Newport Beach (College Hospital) - Sertoli Leydig cell tumor  
Orange (UCI Medical Center) - Endometrioid adenocarcinoma with Sertoli cell features  
San Diego (Naval Medical Center) - Endometrioid adenocarcinoma  
Alabama (Cunningham Pathology) - Granulosa cell tumor  
Florida, Orlando - Endometrioid carcinoma, Sertoli variant  
Georgia, Atlanta - Sertoliform endometrioid carcinoma  
Illinois (Heartland Regional Medical Center) - Sertoli tumor  
Kansas (Coffeyville Regional Medical Center) - Yolk sac tumor, endometrioid-like  
Kansas (Peterson Laboratory Services) - Sertoli cell tumor (1); Adult granulosa cell tumor (1)  
Maryland (University of Maryland) - Endometrioid adenocarcinoma  
Michigan (Henry Ford Hospital) - Adenoid cystic carcinoma  
New York (Buffalo General Hospital) - Endometrioid adenocarcinoma of the ovary, FIGO 1  
New York (SUNY Downstate Medical Center) - Well-differentiated endometrioid carcinoma  
North Carolina (Wake Forest University School of Medicine) - Sertoli cell tumor vs. endometrioid carcinoma  
Ohio (University of Toledo) - Endometrioid adenocarcinoma  
Oregon (Oregon Health and Science University Residents) - Endometrioid carcinoma, FIGO grade 1  
Pennsylvania (Drexel University College of Medicine) - Endometrioid carcinoma  
Pennsylvania (Wilkes-Barre General Hospital) - Sex cord tumor with annular tubules, ovary  
Puerto Rico (University of Puerto Rico) - Sertoli cell tumor rule out endometrioid carcinoma  
South Carolina (Lexington Medical Center) - Endometrioid adenocarcinoma vs. metastatic  
Tennessee, Knoxville - Endometrioid adenocarcinoma  
Texas, Crystal Beach - Adenocarcinoma endometrioid  
Texas, Lubbock - Endometrioid carcinoma  
Wisconsin, Madison - Endometrioid adenocarcinoma  
Wisconsin (The Medical College of Wisconsin) - Sertoli cell tumor, ovary  
Wisconsin (Medical Assessment and Consultation, S.C.) - Sertoli cell tumor  
Australia (St. Vincent's Hospital) - Granulosa cell tumor  
Canada (Pasqua Hospital) - Endometrioid carcinoma, borderline  
Ireland (Connelly Hospital) - Sertoli cell tumor  
Ireland (University College Hospital) - Sertoli cell tumor  
Japan (Asashi General Hospital) - Endometrioid adenocarcinoma  
Japan (Setagaya-Ku, Tokyo) - Serous cystadenocarcinoma (2)  
Saudi Arabia (King Khalid University Hospital) - Endometrioid carcinoma  
United Kingdom (Oxford University) - Metastatic mucinous tumor, requires IHC and clinical radiological correlation

**Case 4 - Diagnosis:**

Endometrioid carcinoma, ovary  
T-86921, M-81403

**Case 4 - References:**

Ovarian endometrioid adenocarcinoma arising from endometriosis in a young woman. *Gynecol Oncol* 2003; Dec;91(3): p643-7. Tagashira Y; Shimada M, et al.  
WT1 expression in endometrioid ovarian carcinoma with and without associated endometriosis. *Pathology* 2008; Oct;40(6): p592-9. Stewart CJ; Brennan BA, et al.  
The role of p53 mutation in the carcinomas arising from endometriosis. *Int J Gynecol Pathol* 2007; Jul;26(3): p345-51. Akahane T; Sekizawa A, et al.  
An unusual rectosigmoid mass: endometrioid adenocarcinoma arising in colonic endometriosis: case report and literature review. *Am Surg* 2005; Aug;71(8): p694-7. Hoang CD; Boettcher AK, et al.

Immunohistochemistry as a diagnostic aid in the evaluation of ovarian tumors. *Semin Diagn Pathol* 2005; Feb;22(1): p3-32. McCluggage WG and Young RH.

**Case No. 5, Accession No. 31028**

**March 2012**

Glendale - Serous tumor of low malignant potential  
Loma Linda - Papillary serous cystadenoma  
Newport Beach (College Hospital) - Borderline papillary cystadenoma  
Orange (UCI Medical Center) - Serous borderline tumor  
San Diego (Naval Medical Center) - Atypical proliferative serous tumor  
Alabama (Cunningham Pathology) - Atypical proliferative (borderline) serous tumor  
Florida, Orlando - Serous borderline tumor  
Georgia, Atlanta - Papillary serous borderline tumor  
Illinois (Heartland Regional Medical Center) - Borderline papillary serous tumor  
Kansas (Coffeyville Regional Medical Center) - Serous papillary cystadenoma of borderline malignancy  
Kansas (Peterson Laboratory Services) - Papillary serous cystadenoma (2)  
Maryland (University of Maryland) - Serous borderline tumor  
Michigan (Henry Ford Hospital) - Borderline papillary serous tumor  
New York (Buffalo General Hospital) - Atypical serous proliferative (borderline) tumor  
New York (SUNY Downstate Medical Center) - Borderline serous neoplasm  
North Carolina (Wake Forest University School of Medicine) - Borderline serous tumor  
Ohio (University of Toledo) - Papillary serous borderline tumor  
Oregon (Oregon Health and Science University Residents) - Papillary serous borderline tumor  
Pennsylvania (Drexel University College of Medicine) - Serous papillary cystadenoma, borderline  
Pennsylvania (Wilkes-Barre General Hospital) - Serous borderline tumor, ovary  
Puerto Rico (University of Puerto Rico) - Borderline serous cystadenoma  
South Carolina (Lexington Medical Center) - Serous borderline tumor  
Tennessee, Knoxville - Serous borderline tumor  
Texas, Crystal Beach - Papillary serous cystadenoma, borderline  
Texas, Lubbock - Papillary serous carcinoma  
Wisconsin, Madison - Borderline serous tumor  
Wisconsin (The Medical College of Wisconsin) - Serous tumor of low malignant potential (borderline tumor)  
Wisconsin (Medical Assessment and Consultation, S.C.) - Papillary serous cystic neoplasm of low malignant potential  
Australia (St. Vincent's Hospital) - Serous borderline tumor  
Canada (Pasqua Hospital) - Serous carcinoma, borderline  
Ireland (Connelly Hospital) - Borderline serous cyst adenofibroma  
Ireland (University College Hospital) - Serous borderline ovarian tumor, micropapillary  
Japan (Asashi General Hospital) - Endocervical-like mucinous borderline tumor  
Japan (Setagaya-Ku, Tokyo) - Serous cystadenocarcinoma (2)  
Saudi Arabia (King Khalid University Hospital) - Borderline serous tumor  
United Kingdom (Oxford University) - Borderline serous tumor

**Case 5 - Diagnosis:**

Papillary serous borderline tumor, ovary  
T-87000, M-80001

**Case 5 - References:**

Micropapillary pattern in newly diagnosed borderline tumors of the ovary: what's in a name? *Oncologist* 2011;16(2): p133-5. Leitao MM.  
Ovarian serous low malignant potential (borderline) tumor--does "micropapillary" matter? *Gynecol Oncol* 2010; Apr;117(1): p1-3. Shih Ie M.  
The development of high-grade serous carcinoma from atypical proliferative (borderline) serous tumors and low-grade micropapillary serous carcinoma: a morphologic and molecular genetic analysis. *Am J Surg Pathol* 2007; Jul;31(7): p1007-12. Dehari R; Kurman RJ, et al.

The recurrence and the overall survival rates of ovarian serous borderline neoplasms with noninvasive implants is time dependent. *Am J Surg Pathol* 2006; Nov;30(11): p1367-71. Silva EG; Gershenson DM, et al.  
 Prognostic value of lymph node involvement in ovarian serous borderline tumors. *Am J Obstet Gynecol* 2011; May;204(5): p438.e1-7. Lesieur B; Kane A, et al.

**Case No. 6, Accession No. 30959**

**March 2012**

Glendale - Serous carcinoma  
Loma Linda - Papillary serous cystadenocarcinoma, ovary  
Newport Beach (College Hospital) - Papillary cystadenocarcinoma  
Orange (UCI Medical Center) - High grade invasive serous carcinoma  
Orlinda (Kaiser Permanente) - Monophasic synovial sarcoma  
San Diego (Naval Medical Center) - Serous cystadenocarcinoma  
Alabama (Cunningham Pathology) - Serous carcinoma  
Georgia, Atlanta - Papillary serous carcinoma, high grade  
Illinois (Heartland Regional Medical Center) - Adenocarcinoma, endometrioid, grade 3  
Kansas (Coffeyville Regional Medical Center) - Serous papillary cystadenocarcinoma  
Kansas (Peterson Laboratory Services) - Papillary serous carcinoma, high grade (1); Serous carcinoma (1)  
Maryland (University of Maryland) - High grade serous carcinoma  
Michigan (Henry Ford Hospital) - Endometrioid adenocarcinoma  
New York (Buffalo General Hospital) - Endometrioid adenocarcinoma of ovary, FIGO 2  
New York (SUNY Downstate Medical Center) - Poorly differentiated endometrioid carcinoma  
North Carolina (Wake Forest University School of Medicine) - High grade serous carcinoma  
Ohio (University of Toledo) - Papillary serous carcinoma  
Oregon (Oregon Health and Science University Residents) - Papillary serous carcinoma, high grade  
Pennsylvania (Drexel University College of Medicine) - Serous papillary carcinoma, invasive  
Pennsylvania (Wilkes-Barre General Hospital) - Serous carcinoma, ovary  
Puerto Rico (University of Puerto Rico) - Serous carcinoma vs. mixed serous endometrioid carcinoma  
South Carolina (Lexington Medical Center) - Endometrioid adenocarcinoma  
Tennessee, Knoxville - Papillary serous carcinoma  
Texas, Crystal Beach - Papillary adenocarcinoma  
Texas, Lubbock - Poorly differentiated serous carcinoma  
Wisconsin, Madison - Papillary serous carcinoma  
Wisconsin (The Medical College of Wisconsin) - Endometrioid carcinoma, high grade, rule out metastasis  
Wisconsin (Medical Assessment and Consultation, S.C.) - Papillary serous cystadenocarcinoma  
Australia (St. Vincent's Hospital) - Serous (papillary) carcinoma, high grade  
Canada (Pasqua Hospital) - Serous carcinoma  
Ireland (Connelly Hospital) - Papillary serous cystadenocarcinoma  
Ireland (University College Hospital) - Papillary serous carcinoma  
Japan (Asahi General Hospital) - Endometrioid adenocarcinoma  
Japan (Setagaya-Ku, Tokyo) - Serous cystadenocarcinoma (2)  
Saudi Arabia (King Khalid University Hospital) - Serous papillary cyst adenocarcinoma  
United Kingdom (Oxford University) - Grade 2, endometrioid carcinoma

**Case 6 - Diagnosis:**

Papillary serous carcinoma, ovary  
 T-87000, M-80503

**Case 6 - References:**

Ovarian sentinel node: is it feasible? *Int J Gynecol Cancer* 2011; Apr;21(3): p568-72. Nyberg RH; Korkola P, et al.  
 Uterine papillary serous carcinoma. *Clin Obstet Gynecol* 2011; Jun;54(2): p278-91. Moore KN; Fader AN.  
 High-grade serous carcinoma of the ovary. *Ann Diagn Pathol* 2009; Aug;13(4): p285-90. Westfall D; Roma AA; Silva EG.  
 Serous carcinoma of the ovary and peritoneum with metastases to the breast and axillary lymph nodes: a potential pitfall. *Am J Surg Pathol* 2004; Dec;28(12): p1646-51. Recine MA; Deavers MT, et al.



Primary papillary serous carcinoma of the peritoneum in a man. *Ann Oncol* 2001; Apr;12(4): p563-7. Shmueli E; Leider-Trejo L, et al.

**Case No. 7, Accession No. 31183**

**March 2012**

Glendale - Malignant Brenner tumor  
Loma Linda - Metastatic cystsarcoma phyllodes  
Newport Beach (College Hospital) - Metastatic breast carcinoma  
Orange (UCI Medical Center) - Malignant Brenner tumor  
San Diego (Naval Medical Center) - Malignant Brenner tumor  
Alabama (Cunningham Pathology) - Malignant Brenner tumor  
Florida, Orlando - Metastatic carcinoma, breast  
Georgia, Atlanta - Malignant Brenner tumor  
Illinois (Heartland Regional Medical Center) - Granulosa cell tumor  
Kansas (Coffeyville Regional Medical Center) - Malignant Brenner tumor  
Kansas (Peterson Laboratory Services) - Malignant Brenner tumor (2)  
Maryland (University of Maryland) - Malignant Brenner tumor vs. metastatic breast carcinoma, needs further workup  
Michigan (Henry Ford Hospital) - Sex cord tumor with annular tubules  
New York (Buffalo General Hospital) - Malignant Brenner tumor  
New York (SUNY Downstate Medical Center) - Malignant Brenner tumor  
North Carolina (Wake Forest University School of Medicine) - Granulosa cell tumor  
Ohio (University of Toledo) - Metastatic carcinoma  
Oregon (Oregon Health and Science University Residents) - Malignant Brenner, rule out metastatic breast  
Pennsylvania (Drexel University College of Medicine) - Malignant Brenner tumor  
Pennsylvania (Wilkes-Barre General Hospital) - Metastatic malignant Phyllodes tumor to ovary  
Puerto Rico (University of Puerto Rico) - Malignant Brenner tumor  
South Carolina (Lexington Medical Center) - Metastatic carcinoma  
Tennessee, Knoxville - Metastatic carcinoma  
Texas, Crystal Beach - Carcinoma probably metastatic ductal breast  
Texas, Lubbock - Malignant Brenner tumor  
Wisconsin, Madison - Adult granulose cell tumor  
Wisconsin (The Medical College of Wisconsin) - Brenner tumor, borderline vs. malignant, favor malignant  
Wisconsin (Medical Assessment and Consultation, S.C.) - Benign Brenner tumor  
Australia (St. Vincent's Hospital) - Malignant Brenner tumor  
Canada (Pasqua Hospital) - Malignant Brenner tumor  
Ireland (Connelly Hospital) - Metastatic ductal carcinoma  
Ireland (University College Hospital) - Metastatic carcinoma  
Japan (Asashi General Hospital) - Malignant Brenner tumor  
Japan (Setagaya-Ku, Tokyo) - Brenner tumor, malignant (2)  
Saudi Arabia (King Khalid University Hospital) - Transitional cell carcinoma (3); Metastatic breast carcinoma (2)  
United Kingdom (Oxford University) - Metastatic breast (ductal) carcinoma

**Case 7 - Diagnosis:**

Malignant Brenner tumor, ovary  
T-87000, M-90000

**Consultation:** Stanford Pathology Consultants: Richard Kent Sibley, M.D. "Malignant Brenner Tumor Confined to Ovary."

**Case 7 - References:**

Malignant Brenner tumour--a case report. *Indian J Pathol Microbiol* 2005; Apr;48(2): p251-2. Marwah N; Mathur SK, et al.

Immunoprofile of ovarian tumors with putative transitional cell (urothelial) differentiation using novel urothelial markers: histogenetic and diagnostic implications. *Am J Surg Pathol* 2003; Nov;27(11): p1434-41. Logani S; Oliva E; Amin MB; Folpe AL; Cohen C; Young RH.

Brenner tumour with carcinoma in situ: evidence for a spectrum from benign to malignant. *Histopathology* 2003; Nov;43(5): p502-4. Monaghan H; Williams AR.  
Brenner tumour. *Lancet* 2003; Sep 13;362(9387): p858. Yoshida S; Shidoh M, et al.

**Case No. 8, Accession No. 31140**

**March 2012**

Glendale - Endometrial stromal sarcoma  
Loma Linda - Leiomyosarcoma, uterus  
Newport Beach (College Hospital) - Endometrial stromal sarcoma  
Orange (UCI Medical Center) - Endometrial stromal sarcoma, low grade  
San Diego (Naval Medical Center) - Low grade endometrial stromal sarcoma  
Alabama (Cunningham Pathology) - Endometrial stromal carcinoma  
Florida, Orlando - Endometrial stromal sarcoma, low grade  
Georgia, Atlanta - Low grade endometrial stromal sarcoma  
Illinois (Heartland Regional Medical Center) - Endometrial stromal sarcoma, low grade  
Kansas (Coffeyville Regional Medical Center) - Low grade endometrial stromal sarcoma  
Kansas (Peterson Laboratory Services) - Endometrial stromal sarcoma (1); High grade stromal sarcoma (1)  
Maryland (University of Maryland) - Undifferentiated uterine sarcoma  
Michigan (Henry Ford Hospital) - Endometrial stromal sarcoma  
New York (Buffalo General Hospital) - Low grade endometrial stromal sarcoma  
New York (SUNY Downstate Medical Center) - Endometrial stromal sarcoma  
North Carolina (Wake Forest University School of Medicine) - Endometrial stromal sarcoma  
Ohio (University of Toledo) - Endometrial stromal sarcoma  
Oregon (Oregon Health and Science University Residents) - Endometrial stromal sarcoma  
Pennsylvania (Drexel University College of Medicine) - Endometrial stromal sarcoma  
Pennsylvania (Wilkes-Barre General Hospital) - Endometrial stroma sarcoma, low grade  
Puerto Rico (University of Puerto Rico) - Low grade endometrial stromal sarcoma/rule out undifferentiated endometrial sarcoma  
South Carolina (Lexington Medical Center) - Endometrial stromal sarcoma, low grade  
Tennessee, Knoxville - Endometrial stromal sarcoma  
Texas, Crystal Beach - Endometrial stromal sarcoma  
Texas, Lubbock - Low grade stromal tumor  
Wisconsin, Madison - Endometrial stromal sarcoma  
Wisconsin (The Medical College of Wisconsin) - Leiomyosarcoma vs. endometrial stromal sarcoma, favor leiomyosarcoma  
Wisconsin (Medical Assessment and Consultation, S.C.) - Low grade endometrial stromal sarcoma  
Australia (St. Vincent's Hospital) - Low grade endometrial stromal sarcoma  
Canada (Pasqua Hospital) - Endometrial stromal sarcoma  
Ireland (Connelly Hospital) - Endometrial stromal tumor, low grade sarcoma  
Ireland (University College Hospital) - Low grade endometrial stromal sarcoma  
Japan (Asashi General Hospital) - Endometrial stromal sarcoma  
Japan (Setagaya-Ku, Tokyo) - Endometrial stromal sarcoma (2)  
Saudi Arabia (King Khalid University Hospital) - Low grade endometrial stromal sarcoma  
United Kingdom (Oxford University) - Low grade endometrial stromal sarcoma

**Case 8 - Diagnosis:**

Endometrial stromal sarcoma, predominantly low grade, uterus  
T-82000, M-89303

**Case 8 - References:**

Lung metastases as an initial presentation of endometrial stromal sarcoma: the utility of the CD10 antibody. *Histopathology* 2004; Nov;45(5): p544-6. Khan OA; Rogers K, et al.  
Endometrial stromal sarcomas with unusual histologic features: a report of 24 primary and metastatic tumors emphasizing fibroblastic and smooth muscle differentiation. *Am J Surg Pathol* 2002; Sep;26(9): p1142-50. Yilmaz A; Rush DS; Soslow RA.

Prognostic parameters in endometrial stromal sarcoma: a clinicopathologic study in 31 patients. *Gynecol Oncol* 2001; May;81(2): p160-5. Bodner K; Bodner-Adler B, et al.

High-grade endometrial stromal sarcoma with smooth muscle and skeletal muscle differentiation: report of a case with cytomorphologic and immunocytologic analysis. *Diagn Cytopathol* 2011; Apr;39(4): p301-5. Ohta Y; Suzuki T, et al.

Diagnostic immunohistochemistry in uterine sarcomas: a study of 397 cases. *Int J Gynecol Pathol* 2011; May;30(3): p236-43. Abeler VM; Nenodovic M.

## Case No. 9, Accession No. 31099

March 2012

Glendale - Smooth muscle tumor of uncertain malignant potential  
Loma Linda - Leiomyosarcoma  
Newport Beach (College Hospital) - Atypical leiomyoma  
Orange (UCI Medical Center) - Symplastic leiomyoma  
San Diego (Naval Medical Center) - Leiomyoma  
Alabama (Cunningham Pathology) - Atypical leiomyoma  
Florida, Orlando - Symplastic leiomyoma  
Georgia, Atlanta - Symplastic leiomyoma  
Illinois (Heartland Regional Medical Center) - Atypical leiomyoma  
Kansas (Coffeyville Regional Medical Center) - Leiomyoma with myxoid and focal bizarre symplastic change  
Kansas (Peterson Laboratory Services) - Symplastic leiomyoma (2)  
Maryland (University of Maryland) - Leiomyoma with bizarre nuclei  
Michigan (Henry Ford Hospital) - Leiomyoma with hyalanization  
New York (Buffalo General Hospital) - Symplastic/bizarre leiomyoma  
New York (SUNY Downstate Medical Center) - Symplastic leiomyoma  
North Carolina (Wake Forest University School of Medicine) - Leiomyoma  
Ohio (University of Toledo) - Leiomyosarcoma  
Oregon (Oregon Health and Science University Residents) - Symplastic leiomyoma  
Pennsylvania (Drexel University College of Medicine) - Atypical (symplastic) leiomyoma  
Pennsylvania (Wilkes-Barre General Hospital) - Symplastic/atypical/bizarre leiomyoma  
Puerto Rico (University of Puerto Rico) - Atypical (symplastic) leiomyoma  
South Carolina (Lexington Medical Center) - Atypical leiomyoma  
Tennessee, Knoxville - Smooth muscle tumor of uncertain malignant potential  
Texas, Crystal Beach - Leiomyoma active  
Texas, Lubbock - Smooth muscle tumor of low malignant potential  
Wisconsin, Madison - Atypical leiomyoma  
Wisconsin (The Medical College of Wisconsin) - Atypical leiomyoma (symplastic leiomyoma)  
Wisconsin (Medical Assessment and Consultation, S.C.) - Epithelioid leiomyoma  
Australia (St. Vincent's Hospital) - Atypical leiomyoma  
Canada (Pasqua Hospital) - Atypical leiomyoma  
Ireland (Connelly Hospital) - Leiomyoma with bizarre nuclei  
Ireland (University College Hospital) - Symplastic leiomyoma  
Japan (Asashi General Hospital) - Endometrial stromal sarcoma  
Japan (Setagaya-Ku, Tokyo) - Leiomyosarcoma (2)  
Saudi Arabia (King Khalid University Hospital) - Symplastic leiomyoma  
United Kingdom (Oxford University) - Atypical leiomyoma

### Case 9 - Diagnosis:

Symplastic leiomyoma ("atypical leiomyoma", leiomyoma with bizarre nuclei), uterus  
 T-82000, M-88900

### Case 9 – References:

Myxoid symplastic leiomyoma of the uterus. *Pathology* 2006; Jun;38(3): p275-7. Toon C; McGahan S et al.

Pathologic quiz case: a 69-year-old asymptomatic man with a scrotal mass. Atypical (symplastic or bizarre) leiomyoma of the scrotum. *Arch Pathol Lab Med* 2004; Feb;128(2): pe37-8. Fadare O; Wang S; Mariappan MR.

A case of uterine adenomyoma with bizarre smooth muscle cells mimicking leiomyosarcoma. *Diagn Cytopathol* 2005; May;32(5): p288-91. Ohta Y; Suzuki T, et al.

Uterine smooth muscle tumors other than the ordinary leiomyomas and leiomyosarcomas: a review of selected variants with emphasis on recent advances and unusual morphology that may cause concern for malignancy. *Adv Anat Pathol* 2010; Mar;17(2): p91-112. Ip PP; Tse KY; Tam KF.

Atypical pilar leiomyoma: cutaneous counterpart of uterine symplastic leiomyoma? *Am J Dermatopathol* 2001; Aug;23(4): p299-303. Mahalingam M; Goldberg LJ.

Bizarre leiomyoma of the scrotum. *J Korean Med Sci* (Korea 2003; Jun;18(3): p452-4. Kim NR; Sung CO; Han J.

**Case No. 10, Accession No. 30685**

**March 2012**

Glendale - Leiomyosarcoma  
Loma Linda - Leiomyosarcoma  
Newport Beach (College Hospital) - Leiomyosarcoma  
Orange (UCI Medical Center) - High grade sarcoma  
San Diego (Naval Medical Center) - Leiomyosarcoma  
Alabama (Cunningham Pathology) - Leiomyosarcoma  
Florida, Orlando - Leiomyosarcoma  
Georgia, Atlanta - Leiomyosarcoma  
Illinois (Heartland Regional Medical Center) - Leiomyosarcoma  
Kansas (Coffeyville Regional Medical Center) - Leiomyosarcoma  
Kansas (Peterson Laboratory Services) - Leiomyosarcoma (2)  
Maryland (University of Maryland) - Leiomyosarcoma  
Michigan (Henry Ford Hospital) - Leiomyosarcoma  
New York (Buffalo General Hospital) - Leiomyosarcoma  
New York (SUNY Downstate Medical Center) - Leiomyosarcoma  
North Carolina (Wake Forest University School of Medicine) - Leiomyosarcoma  
Ohio (University of Toledo) - Leiomyosarcoma  
Oregon (Oregon Health and Science University Residents) - Leiomyosarcoma  
Pennsylvania (Drexel University College of Medicine) - Leiomyosarcoma  
Pennsylvania (Wilkes-Barre General Hospital) - Uterine leiomyosarcoma  
Puerto Rico (University of Puerto Rico) - Leiomyosarcoma  
South Carolina (Lexington Medical Center) - Leiomyosarcoma  
Tennessee, Knoxville - Leiomyosarcoma  
Texas, Crystal Beach - Leiomyosarcoma  
Texas, Lubbock - Leiomyosarcoma  
Wisconsin, Madison - Leiomyosarcoma  
Wisconsin (The Medical College of Wisconsin) - Leiomyosarcoma  
Wisconsin (Medical Assessment and Consultation, S.C.) - Leiomyosarcoma  
Australia (St. Vincent's Hospital) - Leiomyosarcoma  
Canada (Pasqua Hospital) - Leiomyosarcoma  
Ireland (Connelly Hospital) - Leiomyosarcoma  
Ireland (University College Hospital) - Leiomyosarcoma  
Japan (Asashi General Hospital) - Undifferentiated endometrial sarcoma  
Japan (Setagaya-Ku, Tokyo) - Leiomyosarcoma (2)  
Saudi Arabia (King Khalid University Hospital) - Leiomyosarcoma  
United Kingdom (Oxford University) - Leiomyosarcoma vs. smooth muscle tumor of uncertain malignant potential (STUMP)

**Case 10 - Diagnosis:**

Leiomyosarcoma, uterus  
T-82000, M-88900

Case 10 - References:

- 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, et al.
- 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, et al.
- Leiomyosarcoma of the uterus with focal rhabdomyosarcomatous differentiation. *Int J Gynecol Pathol* 2004; Apr;23(2): p188-92. Shintaku M; Sekiyama K.
- Rhabdoid epithelioid leiomyosarcoma of the uterine corpus: a case report and literature review. *Int J Surg Pathol* 2002; Jul;10(3): p231-6. Levine PH; Mittal K.
- A uterine leiomyosarcoma that became positive for HMB45 in the metastasis. *Ann Diagn Pathol* 2005; Feb;9(1): p43-5. Silva EG; Bodurka DC, et al.