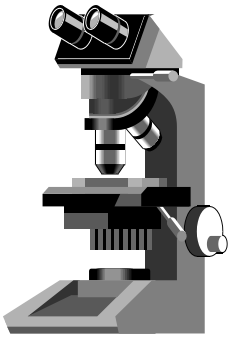
CALIFORNIA
TUMOR TISSUE REGISTRY

# *GYNECOLOGICAL PATHOLOGY*

## Minutes – Subscription A

## September, 2007



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


Comparing Methods to Measure Error in Gynecologic Cytology and Surgical Pathology. Renshaw AA. *Arch Pathol Lab Med* 2006; 130(5): 626-629.

An Interview with Leopold G. Koss, M.D. Conducted by Stephen G. Silverberg, M.D. *Int J Gynecol Pathol* 2006; 25(3):269-280.

A Decade at the Helm. Clement PB. *Int J Gynecol Pathol* 2005; 24(1):1-3.

Papanicolaou Tests with Mixed High-Grade and Low-Grade Squamous Intraepithelial Lesions Features. Distinct Performance in the College of American Pathologists Interlaboratory Comparison Program in Cervicovaginal Cytopathology. Renshaw AA, Mody DR, Styer P, et al. *Arch Pathol Lab Med* 2006; 130(4):456-459.

Intraoperative Consultation in Gynecologic Pathology. Coffey D, Kaplan AL and Ramzy I. *Arch Pathol Lab Med* 2005; 129(12):1544-1557.

Cytohistologic Discrepancies. A Means to Improve Pathology Practice and Patient Outcomes. *Am J Clin Pathol* 2002; 117(4):567-573.



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## FILE DIAGNOSES

## CTTR Subscription A September 2007

**Case 1:**

Polycystic ovarian disease (PCOD)/Stein-Leventhal
T-87000, D-2601

**Case 2:**

Fibrothecoma, ovary
T-87000, M-86000

**Case 3:**

Granulosa cell tumor, adult type, ovary
T-87000, M-86201

**Case 4:**

Strumal carcinoid tumor
T-87000, M-90800

**Case 5:**

Papillary serous adenocarcinoma of endometrium
T-87000, M-90800

**Case 6:**

Papillary serous ovarian adenocarcinoma with mucinous features
T-87000, M-84403

**Case 7:**

Transitional cell carcinoma ("malignant Brenner tumor"), ovary
T-87000, M-81203

**Case 8:**

Low grade endometrial stromal sarcoma, uterus
T-82000, M-89303

**Case 9:**

Epithelioid myosarcoma, uterus
T-82000, M-88903

**Case 10:**

Metastatic adenocarcinoma to ovary, probably colonic origin (Krukenberg tumor)
T-87000, M-84906

**Case No. 1, Accession No. 30487** **September 2007**

Arcadia - Polycystic ovarian disease
Claremont - Polycystic ovary disease
Glendale - Polycystic ovary
Hayward/Fremont - Polycystic ovary
Long Beach (Veterans Hospital) - Polycystic ovarian disease
Monterey Peninsula (Community Hospital) - Polycystic ovary syndrome
Mountain View (El Camino Hospital) - Polycystic ovary disease (2)
San Francisco (UCSF) - Multiple follicular cysts
Oakland (Alameda County Medical Center) - Polycystic ovary syndrome (Stein-Leventual syndrome) (1); Polycystic ovaries consistent with stromal hyperplasia (1)
Orange - Polycystic ovary
Oxnard (St. John's Regional Medical Center) - Polycystic ovaries (Stein Leventhal syndrome) (1); Polycystic disease (1); Polycystic ovary syndrome (1)
San Diego - Polycystic ovary syndrome
San Diego (Naval Medical Center) - Polycystic ovary (PCOS)
San Francisco (San Francisco General Hospital) - Polycystic ovary
Santa Rosa (Santa Rosa Memorial Hospital) - Polycystic ovary disease (3)
Sonoma (Sonoma Valley Hospital) - Polycystic ovaries
Woodland Hills - Polycystic ovary
Alabama (Baptist Medical Center) - Polycystic ovaries
Alabama (Mt. Olive) - Polycystic ovarian disease
Florida (Baptist Hospital) - Polycystic ovarian disease syndrome (3)
Florida (Pensacola) - Polycystic ovaries
Georgia, Decatur - Stromal hyperthecoma consistent with multicystic ovary
Illinois, Burr Ridge - Polycystic ovary disease
Illinois (Heartland Regional Medical Center) - Sclerocystic ovaries with hyperthecosis, consistent with polycystic ovary syndrome
Indiana, Ft. Wayne (St. Joseph) - Polycystic ovarian disease (2)
Louisiana, River Ridge - Stein-Levanthal syndrome (polycystic ovary syndrome)
Maryland (National Naval Medical Center) - Polycystic ovarian disease
Massachusetts (Tufts-New England Medical Center) - Polycystic ovary (Stein-Leventhal syndrome)
Minnesota (Fairview Ridges Hospital) - Polycystic ovary syndrome
Missouri (Missouri Delta Medical Center) - Polycystic ovarian disease (Stein-Leventhal)
Nevada, Las Vegas - Polycystic ovarian disease
New Mexico, Albuquerque - Polycystic ovarian disease
New York (Long Island Jewish Medical Center) - Polycystic ovarian syndrome
New York (Nassau University Medical Center - Polycystic ovary
New York (Stonybrook University Medical Center Residents) - Polycystic ovarian disease
New York (SUNY Downstate Medical Center) - Polycystic ovary disease
New York (Westchester Medical Center) - Polycystic ovarian disease
North Carolina (North Carolina Baptist) - Polycystic ovarian syndrome
Ohio (McCullough-Hyde Memorial Hospital) - Polycystic ovary
Pennsylvania (Conemaugh Hospital) - Polycystic ovary syndrome
Pennsylvania (Drexel University of Medicine) - Polycystic ovarian disease (PCOD)
Pennsylvania (Magee Women's Hospital) - Polycystic ovary
Pennsylvania (St. Elizabeth Health Center) - Stein-Leventhal/polycystic ovarian syndrome

Puerto Rico (University of Puerto Rico) - Polycystic ovarian syndrome
Rhode Island (Brown University) - Polycystic ovarian disease
South Dakota (LCM Pathologists, P.C.) - Polycystic ovary disease
Texas - Germ cell-sex cord stromal tumor
Texas (Crystal Beach) - Ovarian stromal hyperplasia
Texas, Lubbock - Polycystic ovary
Texas (Scott & White Memorial Hospital) - Polycystic ovary disease
Texas (St. Lukes Episcopal Hospital) - Polycystic ovarian disease
Texas, Sugar Land - Polycystic ovary disease
Texas, Victoria - Germ cell-sex cord stromal tumor
Washington, DC - Polycystic ovarian disease (PCOD)
West Virginia (Greenbrier Valley Medical Center) - Polycystic ovary
Wisconsin (Meriter Hospital) - Polycystic ovary
Canada (Pasqua Hospital) - Polycystic ovary syndrome
Canada (Sherbrooke University Hospital) - Polycystic ovaries (Stein-Leventhal syndrome)
Hong Kong (Hong Kong Baptist Hospital) - Stromal hyperthecosis
Hong Kong (Kwong Wah Hospital) - Polycystic ovarian disease
Ireland (Kerry General Hospital) - Polycystic ovarian disease
Japan (Asahi General Hospital) - Stromal hyperplasia
Japan (Kyoto University Hospital) - Polycystic ovarian syndrome (Stein-Leventhal syndrome)
Japan (Saiseikai Maebashi Hospital) - Polycystic ovary syndrome
Oman (Khoula Hospital) - Polycystic ovary disease
The Netherlands, Amstelveen - Polycystic ovary disease

**Case 1 - Diagnosis:**

Polycystic ovarian disease (PCOD)/Stein-Leventhal
T-87000, D-2601

Case 1-References:

Hunter A, Vimplis S, Sharma A, et al. To Determine Whether First-Degree Male Relative of Women with Polycystic Ovary Syndrome are at Higher Risk of Developing Cardiovascular Disease and Type II Diabetes Mellitus. *J Obstet Gynaecol* 2007; 27(6):591-596.

de la Calle M, Gallardo T, Diestro MD, Hernanz A, et al. Increased Homocysteine Levels in Polycystic Ovary Syndrome. *Med Clin (Barc)* 2007; 129(8):292-294.

Shroff R, Kirschner A, Maifeld M, et al. Young Obese Women with Polycystic Ovary Syndrome Have Evidence of Early Coronary Atherosclerosis. *J Clin Endocrinol Metab* 2007.

Norman RJ, Dewailly D, Legro RS, et al. Polycystic Ovary Syndrome. *Lancet* 2007; 370(9588):685-697.

Hassan A and Gordon CM. Polycystic Ovary Syndrome update in Adolescence. *Curr Opin Pediatr* 2007; 19(4):389-397.

## Case No. 2, Accession No. 30339 September 2007

Arcadia - Fibrothecoma
Claremont - Fibroma
Glendale - Thecoma
Hayward/Fremont - Massive ovarian edema/immature fibromatosis
Long Beach (Veterans Hospital) - Fibrothecoma
Monterey Peninsula (Community Hospital) - Fibroma
Mountain View (El Camino Hospital) - Fibroma (2)
San Francisco (UCSF) - Fibrothecoma
Oakland (Alameda County Medical Center) - Fibroma (1)
Orange - Fibroma

Oxnard (St. John's Regional Medical Center) - Fibroma/thecoma (2); Fibrothecoma (2)
San Diego - Ovarian fibroma with edema
San Diego (Naval Medical Center) - Fibroma/thecoma
San Francisco (San Francisco General Hospital) - Thecoma
Santa Rosa (Santa Rosa Memorial Hospital) - Thecoma (3)
Sonoma (Sonoma Valley Hospital) - Ovarian stromal hyperplasia
Woodland Hills - Fibroma
Alabama (Baptist Medical Center) - Fibrothecoma
Alabama (Mt. Olive) - Fibrothecoma
Florida (Baptist Hospital) - Granulosa cell tumor (1); Fibrothecoma (2)
Florida (Pensacola) - Fibrothecoma
Georgia, Decatur - Fibrothecoma
Illinois, Burr Ridge - Thecoma, ovary
Illinois (Heartland Regional Medical Center) - Thecoma
Indiana, Ft. Wayne (St. Joseph) - Fibrothecoma (1); Thecoma (1)
Louisiana, River Ridge - Thecoma of the ovary
Maryland (National Naval Medical Center) - Fibrothecoma
Massachusetts (Tufts-New England Medical Center) - Fibrothecoma
Minnesota (Fairview Ridges Hospital) - Thecoma, with stromal edema
Missouri (Missouri Delta Medical Center) - Lipid rich tumor (steroid ?)
Nevada, Las Vegas - Cellular fibroma
New Mexico, Albuquerque - Stromal hyperplasia and hyperthecosis
New York (Long Island Jewish Medical Center) - Fibroma
New York (Nassau University Medical Center - Thecoma
New York (Stonybrook University Medical Center Residents) - Fibrothecoma (cellular fibroma)
New York (SUNY Downstate Medical Center) - Fibrothecoma
New York (Westchester Medical Center) - Fibroma/thecoma
North Carolina (North Carolina Baptist) - Fibroma
Ohio (McCullough-Hyde Memorial Hospital) - Lutenized fibroma
Pennsylvania (Conemaugh Hospital) - Thecoma/fibroma
Pennsylvania (Drexel University of Medicine) - Fibrothecoma
Pennsylvania (Magee Women's Hospital) - Fibrothecoma
Pennsylvania (St. Elizabeth Health Center) - Thecoma
Puerto Rico (University of Puerto Rico) - Fibrothecoma/steroid cell tumor
Rhode Island (Brown University) - Sclerosing stromal cell tumor
South Dakota (LCM Pathologists, P.C.) - Fibrothecoma
Texas - Fibrothecoma
Texas (Crystal Beach) - Thecoma
Texas, Lubbock - Thecoma
Texas (Scott & White Memorial Hospital) - Fibrothecoma
Texas (St. Lukes Episcopal Hospital) - Fibroma
Texas, Sugar Land - Thecoma
Texas, Victoria - Fibrothecoma
Washington, DC - Myxoma
West Virginia (Greenbrier Valley Medical Center) - Lipoleiomyoma
Wisconsin (Meriter Hospital) - Thecoma
Canada (Pasqua Hospital) - Fibroma
Canada (Sherbrooke University Hospital) - Stromal mesenchymal tumor (fibrothecoma)
Hong Kong (Hong Kong Baptist Hospital) - Fibrothecoma
Hong Kong (Kwong Wah Hospital) - Fibroma with hydropic change
Ireland (Kerry General Hospital) - Ovarian fibroma
Japan (Asahi General Hospital) - Thecoma
Japan (Kyoto University Hospital) - Thecoma
Japan (Saiseikai Maebashi Hospital) - Thecoma
Oman (Khoula Hospital) - Thecoma
The Netherlands, Amstelveen - Thecoma of ovary

**Case 2 - Diagnosis:**

Fibrothecoma, ovary
T-87000, M-86000

Directors Note: The Registry recognizes that ovarian fibromas and thecomas are a spectrum ("fibrothecoma"). (drc)

Case 2 - References:


Garrido JL, Beytia I, De Frias M, et al. Giant Fibrothecoma, and Interesting Case. *Clin Exp Obstet Gynecol* 2007; 34(1):57-59.

Korkolis DP, Koulaxouzidis GV, Apostolikas N, et al. Ovarian Fibrothecoma Associated with Meigs' Syndrome and Elevated Serus CA 125. *J Buon* 2004; 9(4):473-475.

Siekierska-Hellmann M, Sworczak K, et al. Ovarian Thecoma with Androgenic Manifestations in a Postmenopausal Woman. *Gynecol Endocrinol* 2006; 22(7):405-408.

Tsuji T, Catasus L and Prat J. Is Loss of Heterozygosity at 9q22.3 (PTCH Gene) and 19p13.3 (STK11 Gene) Involved in the Pathogenesis of Ovarian Stromal Tumors? *Hum Pathol* 2005; 36(7):792-796.

Angeles RM, Salem FL and Sirota RL. A Right Ovarian Mass in 71-Year-Old Woman with Ascites and Elevated CA 125 Level. Fibrothecoma of the Right Ovary. *Arch Pathol Lab Med* 2005; 129(5): 701-702.


## Case No. 3, Accession No. 30571 September 2007

Arcadia - Thecoma
Claremont - Granulosa cell tumor
Glendale - Adult granulosa cell tumor
Hayward/Fremont - Theca-granulosa cell tumor
Long Beach (Veterans Hospital) - Granulosa cell tumor
Monterey Peninsula (Community Hospital) - Granulosa cell tumor
Mountain View (El Camino Hospital) - Granulosa cell tumor (2)
San Francisco (UCSF) - Granulosa cell tumor
Oakland (Alameda County Medical Center) - Adult granulosa cell tumor (2)
Orange - Granulosa cell tumor
Oxnard (St. John's Regional Medical Center) - Granulosa cell tumor (2); Cellular fibroma (2)
San Diego - Adult granulosa cell tumor
San Diego (Naval Medical Center) - Granulosa cell tumor
San Francisco (San Francisco General Hospital) - Granulosa cell tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Fibroma (1); Fibroma/thecoma (1)
Sonoma (Sonoma Valley Hospital) - Granulosa cell tumor
Woodland Hills - Fibrothecoma
Alabama (Baptist Medical Center) - Granulosa cell tumor
Alabama (Mt. Olive) - Granulosa cell tumor
Florida (Baptist Hospital) - Granulosa cell tumor (3)
Florida (Pensacola) - Granulosa cell tumor
Georgia, Decatur - Adult granulosa cell tumor
Illinois, Burr Ridge - Borderline Brenner tumor, ovary
Illinois (Heartland Regional Medical Center) - Granulosa cell tumor
Indiana, Ft. Wayne (St. Joseph) - Granulosa cell tumor (2)
Louisiana, River Ridge - Fibroma of the ovary
Maryland (National Naval Medical Center) - Adult granulosa cell tumor
Massachusetts (Tufts-New England Medical Center) - Adult granulosa cell tumor
Minnesota (Fairview Ridges Hospital) - Granulosa cell tumor
Missouri (Missouri Delta Medical Center) - Adult granulosa cell tumor
Nevada, Las Vegas - Adult granulosa cell tumor
New Mexico, Albuquerque - Granulosa cell tumor, adult type, diffuse pattern
New York (Long Island Jewish Medical Center) - Granulosa cell tumor
New York (Nassau University Medical Center - Granulosa tumor
New York (Stonybrook University Medical Center Residents) - Adult granulosa cell tumor

New York (SUNY Downstate Medical Center) - Adult granulosa cell tumor
New York (Westchester Medical Center) - Granulosa cell tumor
Ohio (McCullough-Hyde Memorial Hospital) - Granulosa cell tumor
Pennsylvania (Conemaugh Hospital) - Granulosa tumor
Pennsylvania (Drexel University of Medicine) - Granulosa cell tumor, adult type, diffuse pattern
Pennsylvania (Magee Women's Hospital) - Granulosa cell tumor, adult type
Pennsylvania (St. Elizabeth Health Center) - Fibroma
Puerto Rico (University of Puerto Rico) - Granulosa cell tumor
Rhode Island (Brown University) - Granulosa cell tumor
South Dakota (LCM Pathologists, P.C.) - Granulosa cell tumor
Texas - Fibrothecoma with sex cord elements (GCT)
Texas (Crystal Beach) - Granulosa cell tumor
Texas, Lubbock - Granulosa cell tumor
Texas (Scott & White Memorial Hospital) - Granulosa cell tumor
Texas (St. Lukes Episcopal Hospital) - Adult granulosa cell tumor
Texas, Sugar Land - Adult granulosa cell tumor
Texas, Victoria - Fibrothecoma with sex cord elements (GCT)
Washington, DC - Granulosa cell tumor, adult type
West Virginia (Greenbrier Valley Medical Center) - Granulosa cell tumor
Wisconsin (Meriter Hospital) - Granulosa cell tumor, possibly juvenile type
Canada (Pasqua Hospital) - Granulosa cell tumor
Canada (Sherbrooke University Hospital) - Granulosa tumor (solid type)
Hong Kong (Hong Kong Baptist Hospital) - Adult granulosa cell tumor
Hong Kong (Kwong Wah Hospital) - Adult granulosa cell tumor
Ireland (Kerry General Hospital) - Adult granulosa cell tumor
Japan (Asahi General Hospital) - Sclerosing stromal tumor
Japan (Kyoto University Hospital) - Granulosa cell tumor
Japan (Saiseikai Maebashi Hospital) - Adult granulosa cell tumor
Oman (Khoula Hospital) - Granulosa cell tumor
The Netherlands, Amstelveen - Granulosa cell tumor of the ovary

**Case 3 - Diagnosis:**

Granulosa cell tumor, adult type, ovary
T-87000, M-86201

Case 3 - References:

Lee YK, Park NH, Kim JW, et al. Characteristics of Recurrence in Adult-Type Granulosa Cell Tumor. *Int J Gynecol Cancer* 2007.

Rha SE, Oh SN, Jung SE, et al. Recurrent Ovarian Granulosa Cell Tumors. Clinical and Imaging Features. *Abdom Imaging* 2007.

Colombo N, parma G, Zanagnolo V, et al. Management of Ovarian Stromal Cell Tumors. *J Clin Oncol* 2007; 25(20):2944-2951.

Villella J, Herrmann FR, Kaul S, et al. Clinical and Pathological Predictive Factors in Women with Adult-Type Granulosa Cell Tumor of the Ovary. *Int J Gynecol Pathol* 2007; 26(2):154-159.

Alexiadis M, Mamers P, Chu S, et al. Insulin-Like Growth Factor, Insulin-Like Growth Factor-Binding Protein-4, and Pregnancy-Associated Plasma Protein-A Gene Expression in Human Granulosa Cell Tumors. *Int J Gynecol Cancer* 2006; 16(6):1973-1979.

## Case No. 4, Accession No. 30296 September 2007

Arcadia - Ovarian carcinoid
Claremont - Strumal carcinoid
Glendale - Struma carcinoid
Hayward/Fremont - Strumal carcinoid
Long Beach (Veterans Hospital) - Low grade neuroendocrine tumor (mixed mostly carcinoid and thyroid struma)

Monterey Peninsula (Community Hospital) - Cystic teratoma with strumal carcinoid
Mountain View (El Camino Hospital) - Carcinoid tumor (2)
San Francisco (UCSF) - Strumal carcinoid
Oakland (Alameda County Medical Center) - Strumal carcinoid tumor (1); Carcinoid (1)
Orange - Struma carcinoid
Oxnard (St. John's Regional Medical Center) - Carcinoid (struma ovarii) (1); Strumal carcinoid (3)
San Diego - Strumal carcinoid
San Diego (Naval Medical Center) - Carcinoid in a teratoma
San Francisco (San Francisco General Hospital) - Struma carcinoid
Santa Rosa (Santa Rosa Memorial Hospital) - Strumal carcinoid tumor (3)
Sonoma (Sonoma Valley Hospital) - Strumal carcinoid
Woodland Hills - Carcinoid tumor
Alabama (Baptist Medical Center) - Strumal carcinoid
Alabama (Mt. Olive) - Strumal carcinoid
Florida (Baptist Hospital) - Strumal carcinoid (3)
Florida (Pensacola) - Teratoma with carcinoid and thyroid elements (struma carcinoid)
Georgia, Decatur - Strumal carcinoid
Illinois, Burr Ridge - Carcinoid tumor, ovary
Illinois (Heartland Regional Medical Center) - Carcinoid (strumal component not identified in available slide)
Indiana, Ft. Wayne (St. Joseph) - Carcinoid tumor/angiolymphatic invasion is present (1); Adenocarcinoma, endometrial,sertoliform variant (1)
Louisiana, River Ridge - Carcinoid tumor of the ovary
Maryland (National Naval Medical Center) - Strumal carcinoid
Massachusetts (Tufts-New England Medical Center) - Strumal carcinoid
Minnesota (Fairview Ridges Hospital) - Strumal carcinoid
Missouri (Missouri Delta Medical Center) - Mucinous tumor vs. adenocarcinoma
Nevada, Las Vegas - Strumal carcinoid tumor
New Mexico, Albuquerque - Carcinoid tumor (monodermal teratoma)
New York (Long Island Jewish Medical Center) - Struma ovarii
New York (Nassau University Medical Center - Strumal carcinoid
New York (Stonybrook University Medical Center Residents) - Carcinoid tumor
New York (SUNY Downstate Medical Center) - Strumal carcinoid
New York (Westchester Medical Center) - Struma, carcinoid tumor
North Carolina (North Carolina Baptist) - Strumal carcinoid
Ohio (McCullough-Hyde Memorial Hospital) - Carcinoid tumor (mature teratoma)
Pennsylvania (Conemaugh Hospital) - Stromal carcinoid tumor
Pennsylvania (Drexel University of Medicine) - Ovarian strumal carcinoid
Pennsylvania (Magee Women's Hospital) - Strumal carcinoid
Pennsylvania (St. Elizabeth Health Center) - Strumal carcinoid
Puerto Rico (University of Puerto Rico) - Strumal carcinoid
Rhode Island (Brown University) - Strumal carcinoid
South Dakota (LCM Pathologists, P.C.) - Strumal carcinoid
Texas - Carcinoid (strumal?)
Texas (Crystal Beach) - Sertoli-Leydig cell tumor with heterologenous elements (carcinoid, calcified cartilage)
Texas, Lubbock - Carcinoid-struma ovary
Texas (Scott & White Memorial Hospital) - Struma carcinoid
Texas (St. Lukes Episcopal Hospital) - Strumal carcinoid
Texas, Sugar Land - Strumal carcinoid
Texas, Victoria - Carcinoid (strumal?)
Washington, DC - Carcinoid tumor
West Virginia (Greenbrier Valley Medical Center) - Strumal carcinoid
Wisconsin (Meriter Hospital) - Carcinoid, likely strumal, rule out metastatic
Canada (Pasqua Hospital) - Carcinoid
Canada (Sherbrooke University Hospital) - Carcinoid (monodermal teratoma)
Hong Kong (Hong Kong Baptist Hospital) - Struma ovarii
Hong Kong (Kwong Wah Hospital) - Strumal carcinoid
Ireland (Kerry General Hospital) - Strumal carcinoid

Japan (Asahi General Hospital) - Carcinoid tumor
Japan (Kyoto University Hospital) - Carcinoid tumor
Japan (Saiseikai Maebashi Hospital) - Strumal carcinoid
Oman (Khoula Hospital) - Struma carcinoid in a teratoma
The Netherlands, Amstelveen - Carcinoid of the ovary

**Case 4 - Diagnosis:**

Strumal carcinoid tumor
T-87000, M-90800

Case 4 - References:


Chatzipantelis, P, Mavrogiorgis A, Kairi-Vassilatou E, et al. Ovarian Neoplasm Composed of an Insular Carcinoid Tumor and a Borderline Mucinous Cystadenoma Arising in a Mature Cystic Teratoma. A Case Report. *European J of Gynaecol Oncol* 2006; 27(6):636-637.

Kester RR, Leboeuf L, Jorda M, et al. Trichouria Caused by Ovarian Teratoma with Carcinoid Elements. *J of Urol* 2003; 170(2 Pt 1):520.

Esik O, Nemeth G, Szepeshazi K. Calcitonin-Secreting Ovarian Stumal Carcinoid. *European J Gynacol Oncol.* 1994;; 15(3):211-216.

Kimura N, Sasano N, Namiki T, et al. Evidence of Hybrid Cell of Thyroid Follicular Cell and Carcinoid Cell in Strumal Carcinoid. *Int J of Gynecol Pathol* 1986; 5(3):269-277.

Matias-Guiu X, Forteza J, Prat J, et al. Mixed Strumal and Mucinous Carcinoid Tumor of the Ovary. *Int J Gynecol Pathol* 1995; 14(2):179-183.


## Case No. 5, Accession No. 30504 September 2007

Arcadia - Poorly differentiated papillary adenocarcinoma
Claremont - Villoglandular carcinoma
Glendale - Uterine serous carcinoma
Hayward/Fremont - Endometrioid carcinoma
Long Beach (Veterans Hospital) - Papillary endometrial adenocarcinoma
Monterey Peninsula (Community Hospital) - Papillary serous carcinoma
Mountain View (El Camino Hospital) - Uterine papillary serous carcinoma (2)
San Francisco (UCSF) - Serous carcinoma
Oakland (Alameda County Medical Center) - Serous carcinoma (1); Endometrial carcinoma (1)
Orange - Uterine serous papillary carcinoma
Oxnard (St. John's Regional Medical Center) - Papillary adenocarcinoma, endometrial (4)
San Diego - Uterine papillary serous carcinoma
San Diego (Naval Medical Center) - Serous adenocarcinoma
San Francisco (San Francisco General Hospital) - Micropapillary serous carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Papillary serous carcinoma (2); papillary serous endometrial adenocarcinoma (1)
Sonoma (Sonoma Valley Hospital) - Papillary serous carcinoma
Woodland Hills - Poorly differentiated invasive serous carcinoma, vascular/lymphatic and serosal involvement
Alabama (Baptist Medical Center) - Papillary serous adenocarcinoma
Alabama (Mt. Olive) - Papillary serous carcinoma
Florida (Baptist Hospital) - Papillary serous carcinoma (3)
Florida (Pensacola) - Papillary serous carcinoma
Georgia, Decatur - Serous carcinoma
Illinois, Burr Ridge - Papillary serous carcinoma, endometrium
Illinois (Heartland Regional Medical Center) - Serous carcinoma, papillary (high grade)
Indiana, Ft. Wayne (St. Joseph) - Papillary serous carcinoma/myometrial and angiolymphatic invasion (1); Papillary serous carcinoma (1)
Louisiana, River Ridge - Poorly differentiated adenocarcinoma of the endometrium
Maryland (National Naval Medical Center) - Papillary serous adenocarcinoma
Massachusetts (Tufts-New England Medical Center) - Papillary serous adenocarcinoma
Minnesota (Fairview Ridges Hospital) - Papillary serous carcinoma, with deep lymphatic invasion

Missouri (Missouri Delta Medical Center) - Serous carcinoma minimally invasive
Nevada, Las Vegas - High grade serous papillary carcinoma
New Mexico, Albuquerque - Papillary serous carcinoma
New York (Long Island Jewish Medical Center) - Papillary serous adenocarcinoma
New York (Nassau University Medical Center - Papillary carcinoma, superficially infiltrating
New York (Stonybrook University Medical Center Residents) - Papillary serous carcinoma of the endometrium
New York (SUNY Downstate Medical Center) - Uterine papillary serous carcinoma
New York (Westchester Medical Center) - Uterine serous carcinoma with tumor emboli in vascular channels
North Carolina (North Carolina Baptist) - Endometroid endometrial villoglandular adenocarcinoma
Ohio (McCullough-Hyde Memorial Hospital) - Papillary serous adenocarcinoma
Pennsylvania (Conemaugh Hospital) - Metastatic invasive adenocarcinoma
Pennsylvania (Drexel University of Medicine) - Papillary serous carcinoma
Pennsylvania (Magee Women's Hospital) - Serous papillary carcinoma
Pennsylvania (St. Elizabeth Health Center) - Papillary serous carcinoma
Puerto Rico (University of Puerto Rico) - Serous adenocarcinoma
Rhode Island (Brown University) - Papillary serous carcinoma
South Dakota (LCM Pathologists, P.C.) - Serous carcinoma
Texas - Serous papillary adenocarcinoma
Texas (Crystal Beach) - Adenocarcinoma endometrium serous
Texas, Lubbock - Papillary carcinoma
Texas (Scott & White Memorial Hospital) - Serous adenocarcinoma
Texas (St. Lukes Episcopal Hospital) - Papillary serous carcinoma
Texas, Sugar Land - Serous adenocarcinoma
Texas, Victoria - Serous papillary adenocarcinoma
Washington, DC - Uterine papillary serous carcinoma
West Virginia (Greenbrier Valley Medical Center) - Endometrioid adenocarcinoma
Wisconsin (Meriter Hospital) - Papillary serous carcinoma
Canada (Pasqua Hospital) - Serous carcinoma
Canada (Sherbrooke University Hospital) - Endometrioid adenocarcinoma
Hong Kong (Hong Kong Baptist Hospital) - Papillary serous carcinoma
Hong Kong (Kwong Wah Hospital) - Villoglandular variant of endometrioid adenocarcinoma
Ireland (Kerry General Hospital) - Endometrial intraepithelial carcinoma
Japan (Asahi General Hospital) - Serous adenocarcinoma
Japan (Kyoto University Hospital) - Serous adenocarcinoma, uterus
Japan (Saiseikai Maebashi Hospital) - Serous carcinoma
Oman (Khoula Hospital) - Endometrioid adenocarcinoma (villoglandular variant)
The Netherlands, Amstelveen - Papillary serous adenocarcinoma of the endometrium

**Case 5 - Diagnosis:**

Papillary serous adenocarcinoma of endometrium
T-87000, M-90800

Case 5 - References:

Tran TA, Ortiz HB, Holloway RW, et al. Alpha-Fetoprotein-Producing Serous Carcinoma of the Uterus Metastasizing to the Ovaries, Mimicking Primary Ovarian Yolk Sac Tumor. A Case Report and Review of the Literature. *Int J Gynecol Pathol* 2007; 26(1):66-70.

Giordano G, Gnetti L, Merisio C, et al. Postmenopausal Status, Hypertension and Obesity as Risk Factors for Malignant Transformation in Endometrial Polyps. *Maturitas* 2007; 56(2):190-197.

Hamilton CA, Cheung MK, Osann K, et al. Uterine Papillary Serous and Clear Cell Carcinomas Predict for Poorer Survival Compared to Grade 3 Endometrioid Corpus Cancers. *Br J Cancer* 2006; 13; 94(5):642-646.

Ioffe OB. Recent Developments and Selected Diagnostic Problems in Carcinomas of the Endometrium. *Am J Clin Pathol* 2005;

Busmanis I, Ho TH, Tan SB, et al. p53 and bcl-2 Expression in Invasive and Pre-Invasive Uterine Papillary Serous Carcinoma and Atrophic Endometrium. *Ann Acad Med Singapore* 2005; 34(7):421-425.

Arcadia - Serous papillary adenocarcinoma, grade II/III
Claremont - Papillary serous carcinoma
Glendale - Serous carcinoma
Hayward/Fremont - Serous LMP carcinoma
Long Beach (Veterans Hospital) - Papillary serous adenocarcinoma of ovary
Monterey Peninsula (Community Hospital) - Borderline serous tumor with microinvasion
Mountain View (El Camino Hospital) - Endometrioid adenocarcinoma vs. atypical proliferative endometrioid tumor (2)
San Francisco (UCSF) - Probable adenocarcinoma arising in borderline lesion
Oakland (Alameda County Medical Center) - Serous borderline tumor (1); Serous cystadenocarcinoma (1)
Orange - Endometrioid adenocarcinoma
Oxnard (St. John's Regional Medical Center) - Serous cystadenocarcinoma (3); Papillary adenocarcinoma (1)
San Diego - Clear cell carcinoma
San Diego (Naval Medical Center) - Serous adenocarcinoma (6); Endometrioid adenocarcinoma (5)
San Francisco (San Francisco General Hospital) - Papillary serous carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Papillary serous cystadenocarcinoma, well-differentiated (1); Papillary serous cystadenocarcinoma (1)
Sonoma (Sonoma Valley Hospital) - Villoglandular endometrioid and clear cell carcinoma
Woodland Hills - Adenocarcinoma, mixed serous endometrioid adenofibromatosis and clear cell patterns
Alabama (Baptist Medical Center) - Endometrioid adenocarcinoma
Alabama (Mt. Olive) - Serous cystadenocarcinoma
Florida (Baptist Hospital) - Endometrioid carcinoma (1); Endometrioid adenocarcinoma (2)
Florida (Pensacola) - Endometrioid adenocarcinoma
Georgia, Decatur - Mixed clear cell and mucinous endocervical adenocarcinoma
Illinois, Burr Ridge - Serous papillary carcinoma , ovary
Illinois (Heartland Regional Medical Center) - Endometrioid adenocarcinoma, grade 2 with minor clear cell component
Indiana, Ft. Wayne (St. Joseph) - Papillary serous cystadenocarcinoma (1); Serous borderline tumor (1)
Louisiana, River Ridge - Papillary serous cystadenocarcinoma of the ovary
Maryland (National Naval Medical Center) - Mucinous cystadenocarcinoma with focal clear cell features
Massachusetts (Tufts-New England Medical Center) - Endometrioid adenocarcinoma
Minnesota (Fairview Ridges Hospital) - Serous carcinoma
Missouri (Missouri Delta Medical Center) - Invasive serous cancer
Nevada, Las Vegas - Borderline endometrioid tumor with foci of intraepithelial carcinoma
New Mexico, Albuquerque - Papillary serous carcinoma
New York (Long Island Jewish Medical Center) - Ovarian endometrioid carcinoma, endometriosis
New York (Nassau University Medical Center - Papillary cystadenocarcinoma
New York (Stonybrook University Medical Center Residents) - Borderline serous mucinous lesion
New York (SUNY Downstate Medical Center) - Mixed ovarian adenocarcinoma (papillary serous endometrioid, mucinous, and minor clear cell components
New York (Westchester Medical Center) - Ovarian endometriosis with endometrioid adenocarcinoma
Ohio (McCullough-Hyde Memorial Hospital) - Cystic tumor of borderline malignancy
Pennsylvania (Conemaugh Hospital) - Serous papillary carcinoma of ovary
Pennsylvania (Drexel University of Medicine) - Serous borderline tumor
Pennsylvania (Magee Women's Hospital) - Serous papillary carcinoma
Pennsylvania (St. Elizabeth Health Center) - Borderline serous carcinoma
Puerto Rico (University of Puerto Rico) - Serous carcinoma, high grade
Rhode Island (Brown University) - Papillary serous carcinoma, high grade
South Dakota (LCM Pathologists, P.C.) - Serous carcinoma, low grade
Texas - Mixed endometrioid/clear cell adenocarcinoma associated with endometriosis
Texas (Crystal Beach) - Adenocarcinoma ovary papillary serous
Texas, Lubbock - Papillary carcinoma
Texas (Scott & White Memorial Hospital) - Papillary serous tumor of low malignant potential
Texas (St. Lukes Episcopal Hospital) - Mucinous borderline, endocervical type vs. endometrioid adenofibroma with atrophic features

Texas, Sugar Land - Mucinous cyst adenocarcinoma
Texas, Victoria - Mixed endometroid/clear cell adenocarcinoma associated with endometriosis
Washington, DC - Endometrioid carcinoma
West Virginia (Greenbrier Valley Medical Center) - Borderline serous papillary adenocarcinoma
Wisconsin (Meriter Hospital) - Papillary serous carcinoma
Canada (Pasqua Hospital) - Serous carcinoma
Canada (Sherbrooke University Hospital) - Mucinous adenocarcinoma
Hong Kong (Hong Kong Baptist Hospital ) - Mixed serous and endometrioid adenocarcinoma
Hong Kong (Kwong Wah Hospital) - Serous papillary carcinoma of the ovary
Ireland (Kerry General Hospital) - Serous borderline tumor of micropapillary type ("micropapillary carcinoma")
Japan (Asahi General Hospital) - Mucinous adenocarcinoma
Japan (Kyoto University Hospital) - Serous adenocarcinoma, uterus
Japan (Saiseikai Maebashi Hospital) - Atypical proliferative serous tumor with microinvasion
Oman (Khoula Hospital) - Endometrioid adenocarcinoma with endometriosis
The Netherlands, Amstelveen - Serous adenocarcinoma, ovary

**Case 6 - Diagnosis:**

Papillary serous ovarian adenocarcinoma with mucinous features
T-87000, M-84403

Case 6 - References:

Rajesh NG, Rekha K and Krishna B. Significance of p53 Expression in Ovarian Tumors and Its Correlation to the Morphological Differentiation. *Ind J Pathol Microbiol* 2007; 50(2):284-287.
Comin CE, Saieva C and Messerini L. h-Caldesmon, Calretinin Estrogen Receptor, and Ber-EP4. A Useful Combination of Immunohistochemical Markers for Differentiating Epithelioid Peritoneal Mesothelioma From Serous papillary Carcinoma of the Ovary. *Am J Surg Pathol* 2007; 31(8):1139-1148.
Tong GX, Chiriboga L, Hamele-Bena D, et al. Expression of PAX2 in Papillary Serous Carcinoma of the Ovary. Immunohistochemical Evidence of Fallopian Tube or Secondary Mullerian System Origin? *Mod Pathol* 2007;20(8):856-863.
Alberti N, Serrano-Egea A, Garcia-Garcia E, Ballestin C, et al. Primary Papillary Serous Carcinoma of the Peritoneum. Report of a Case with Diagnosis by Fine Needle Aspiration and Immunocytochemisty. *Acta Cytol* 2007; 51(2):203-206.

## Case No. 7, Accession No. 30480 September 2007

Arcadia - Poorly differentiated adenocarcinoma, probable endometrioid type
Claremont - Endometrioid adenocarcinoma
Glendale - Transitional cell carcinoma
Hayward/Fremont - Malignant Brenner (transitional cell) tumor
Long Beach (Veterans Hospital) - Transitional cell carcinoma
Monterey Peninsula (Community Hospital) - Transitional cell carcinoma/malignant Brenner tumor
Mountain View (El Camino Hospital) - Papillary serous carcinoma (2)
San Francisco (UCSF) - Transitional cell carcinoma
Oakland (Alameda County Medical Center) - Serous carcinoma (1); Poorly differentiated adenocarcinoma (1)
Orange - Transitional cell carcinoma
Oxnard (St. John's Regional Medical Center) - Brenner tumor, malignant (3); Poorly differentiated adenocarcinoma (1)
San Diego - Transitional cell carcinoma
San Diego (Naval Medical Center) - Transitional cell carcinoma
San Francisco (San Francisco General Hospital) - Endometrioid adenocarcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Papillary serous cystadenocarcinoma, poorly differentiated (1); Endometrioid carcinoma of ovary (1); Poorly differentiated papillary carcinoma (1)
Sonoma (Sonoma Valley Hospital) - Transitional cell carcinoma, ovary
Woodland Hills - Poorly differentiated adenocarcinoma, favor transitional cell
Alabama (Baptist Medical Center) - Poorly differentiated serous adenocarcinoma
Alabama (Mt. Olive) - Transitional cell carcinoma
Florida (Baptist Hospital) - Malignant Brenner tumor (3)
Florida (Pensacola) - Poorly differentiated carcinoma (possible malignant Brenner tumor)

Georgia, Decatur - Transitional cell carcinoma
Illinois, Burr Ridge - Poorly differentiated transitional cell carcinoma, ovary
Illinois (Heartland Regional Medical Center) - Poorly differentiated carcinoma, favor serous carcinoma
Indiana, Ft. Wayne (St. Joseph) - Malignant Brenner tumor (2)
Louisiana, River Ridge - Poorly differentiated endometrioid carcinoma of the ovary
Maryland (National Naval Medical Center) - Transitional cell carcinoma
Massachusetts (Tufts-New England Medical Center) - Transitional cell carcinoma
Minnesota (Fairview Ridges Hospital) - High grade ovarian carcinoma, serous vs. transitional
Missouri (Missouri Delta Medical Center) - Malignant Brenner tumor
Nevada, Las Vegas - Transitional cell carcinoma of the ovary
New Mexico, Albuquerque - Poorly differentiated carcinoma
New York (Long Island Jewish Medical Center) - Serous adenocarcinoma
New York (Nassau University Medical Center - Ovarian transitional cell carcinoma
New York (Stonybrook University Medical Center Residents) - Transitional cell carcinoma
New York (SUNY Downstate Medical Center) - Ovarian transitional cell carcinoma
New York (Westchester Medical Center) - Undifferentiated serous adenocarcinoma
Pennsylvania (Conemaugh Hospital) - Papillary transitional cell carcinoma
Pennsylvania (Drexel University of Medicine) - Transitional cell carcinoma
Pennsylvania (Magee Women's Hospital) - Serous papillary carcinoma
Pennsylvania (St. Elizabeth Health Center) - Transitional cell carcinoma
Puerto Rico (University of Puerto Rico) - Transitional cell carcinoma
Rhode Island (Brown University) - Transitional cell carcinoma
South Dakota (LCM Pathologists, P.C.) - Serous carcinoma
Texas - Undifferentiated carcinoma (poorly differentiated transitional cell carcinoma)
Texas (Crystal Beach) - Transitional cell carcinoma
Texas, Lubbock - Poorly differentiated papillary carcinoma
Texas (Scott & White Memorial Hospital) - Serous adenocarcinoma
Texas (St. Lukes Episcopal Hospital) - Transitional cell carcinoma
Texas, Sugar Land - Serous adenocarcinoma
Texas, Victoria - Undifferentiated carcinoma (poorly differentiated transitional cell carcinoma)
Washington, DC - Transitional cell carcinoma
West Virginia (Greenbrier Valley Medical Center) - Serous adenocarcinoma
Wisconsin (Meriter Hospital) - Carcinoma, endometrioid vs. transitional
Canada (Pasqua Hospital) - Transitional cell carcinoma
Canada (Sherbrooke University Hospital) - Transitional carcinoma
Hong Kong (Hong Kong Baptist Hospital) - Transitional cell carcinoma
Hong Kong (Kwong Wah Hospital) - Primary transitional cell carcinoma of the ovary
Ireland (Kerry General Hospital) - Transitional cell carcinoma
Japan (Asahi General Hospital) - Malignant Brenner tumor
Japan (Kyoto University Hospital) - Transitional cell carcinoma
Japan (Saiseikai Maebashi Hospital) - Transitional cell carcinoma
Oman (Khoula Hospital) - Transitional cell carcinoma (1); Malignant mixed epithelial tumor (1)
The Netherlands, Amstelveen - Poorly differentiated serous adenocarcinoma of the ovary

**Case 7 - Diagnosis:**

Transitional cell carcinoma ("malignant Brenner tumor"), ovary
T-87000, M-81203

Case 7 - References:

Giordano G, D'Adda T, Gnetti L, et al. Transitional Cell Carcinoma of the Endometrium Associated with Benign Ovarian Brenner Tumor. A Case Report with Immunohistochemistry Molecular Analysis and a Review of the Literature. *Int J Gynecol Pathol* 2007; 26(3):298-304.
Yazigi R, Sahid S, Gutierrez J, et al. Transitional Cell Carcinoma of the Ovary. *J Obstet Gynaecol* 2005; 25(7):725-726.
Kommoss F, Kommoss S, Schmidt D, et al. Survival Benefit for Patients with Advanced-Stage Transitional Cell Carcinomas vs. Other Subtypes of Ovarian Carcinoma After Chemotherapy with Platinum and Paclitaxel. *Gynecol Oncol* 2005; 97(1):195-199.
Croft PR, Lathrop SL, Feddersen RM, et al. Estrogen Receptor Expression in Papillary Urothelial Carcinoma of the Bladder and Ovarian Transitional Cell Carcinoma. *Arch Pathol Lab Med* 2005; 129(2):194-199.

Eichhorn JH and Young RH. Transitional Cell Carcinoma of the Ovary. A Morphologic Study of 100 Cases with Emphasis on Differential Diagnosis. *Am J Surg Pathol* 2004; 28(4):453-463.
Logani S, Oliva E, Amin MB, et al. Immunoprofile of Ovarian Tumors with Putative Transitional Cell (Urothelial) Differentiation Using Novel Uothelial Markers. Histogenetic and Diagnostic Implications. *Am J Surg Pathol* 2003; 27(11):1434-1441.

## Case No. 8, Accession No. 30465 September 2007

Arcadia - Low grade stromal sarcoma
Claremont - Endometrial stromal sarcoma
Glendale - Cellular leiomyoma
Hayward/Fremont - Endometrial stromal sarcoma, low grade
Long Beach (Veterans Hospital) - Endometrial stromal sarcoma
Monterey Peninsula (Community Hospital) - Endometrial stromal sarcoma, low grade
Mountain View (El Camino Hospital) - Stromal nodule vs. low grade stromal sarcoma (2)
San Francisco (UCSF) - Endometrial stromal sarcoma, low grade
Oakland (Alameda County Medical Center) - Endometrial stromal neoplasm (nodule vs. low-grade sarcoma) (1); MMT vs. stromal sarcoma (1)
Orange - Low grade stromal sarcoma
Oxnard (St. John's Regional Medical Center) - Low grade endometrial stromal sarcoma (1); Cellular leiomyoma (2); Leiomyoma (1)
San Diego - Endometrial stromal tumor
San Diego (Naval Medical Center) - Endometrial stromal sarcoma
San Francisco (San Francisco General Hospital) - Endometrial stromal tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Endometrial stromal sarcoma (2); Low grade stromal sarcoma (stromal tumor) (1);
Sonoma (Sonoma Valley Hospital) - Endometrial stromal nodule
Woodland Hills - Low grade endometrial stromal sarcoma
Alabama (Baptist Medical Center) - Endometrial stromal sarcoma
Alabama (Mt. Olive) - Endometrial stromal sarcoma, low grade
Florida (Baptist Hospital) - Endometrial stromal sarcoma (3)
Florida (Pensacola) - Endometrial stromal sarcoma, low grade
Georgia, Decatur - Endometrial stromal sarcoma, low grade
Illinois, Burr Ridge - Endometrial stromal sarcoma, low grade
Illinois (Heartland Regional Medical Center) - Low grade endometrial stromal sarcoma
Indiana, Ft. Wayne (St. Joseph) - Myofibroblastoma (1); Leiomyosarcoma (1)
Louisiana, River Ridge - Cellular leiomyoma of the uterus
Maryland (National Naval Medical Center) - Pleomorphic rhabdomyosarcoma
Massachusetts (Tufts-New England Medical Center) - Low grade endometrial stromal sarcoma
Minnesota (Fairview Ridges Hospital) - Endometrial stromal sarcoma, low-grade
Missouri (Missouri Delta Medical Center) - Endometrial stromal tumor, low grade
Nevada, Las Vegas - Low grade endometrial stromal sarcoma
New Mexico, Albuquerque - Low grade endometrial stromal sarcoma
New York (Long Island Jewish Medical Center) - Ovarian stromal cell tumor
New York (Nassau University Medical Center - Endometrial stromal sarcoma
New York (Stonybrook University Medical Center Residents) - Leiomyoma
New York (SUNY Downstate Medical Center) - Endometrial stromal nodule
New York (Westchester Medical Center) - Low grade endometrial stromal sarcoma
Ohio (McCullough-Hyde Memorial Hospital) - Leiomyosarcoma
Pennsylvania (Conemaugh Hospital) - Stromal sarcoma
Pennsylvania (Drexel University of Medicine) - Endometrial stromal sarcoma
Pennsylvania (Magee Women's Hospital) - Endometrial stromal sarcoma, low-grade
Pennsylvania (St. Elizabeth Health Center) - Low grade endometrial stromal sarcoma
Puerto Rico (University of Puerto Rico) - Endometrial stromal sarcoma
Rhode Island (Brown University) - Low grade endometrial stromal sarcoma
South Dakota (LCM Pathologists, P.C.) - High grade endometrial stromal sarcoma

Texas - Low grade endometrial stromal sarcoma
Texas (Crystal Beach) - Endometrial stromal sarcoma
Texas, Lubbock - Rhabdomyosarcoma
Texas (Scott & White Memorial Hospital) - Endometrial stromal nodule
Texas (St. Lukes Episcopal Hospital) - Rhabdomyosarcoma
Texas, Sugar Land - Endometrial stromal sarcoma, low grade
Texas, Victoria - Low grade endometrial stromal sarcoma
Washington, DC - Endometrial stromal nodule
West Virginia (Greenbrier Valley Medical Center) - Endometrial stromal sarcoma
Wisconsin (Meriter Hospital) - Low grade stromal sarcoma
Canada (Pasqua Hospital) - Endodermal sinus tumor
Canada (Sherbrooke University Hospital) - Endometrial stromal sarcoma low grade
Hong Kong (Hong Kong Baptist Hospital) - Low grade endometrial stromal sarcoma
Hong Kong (Kwong Wah Hospital) - Low grade endometrial stromal sarcoma
Ireland (Kerry General Hospital) - Endometrial stromal nodule
Japan (Asahi General Hospital) - Endometrial stromal sarcoma, low grade
Japan (Kyoto University Hospital) - Endometrial stromal sarcoma
Japan (Saiseikai Maebashi Hospital) - Low grade endometrial stromal sarcoma
Oman (Khoula Hospital) - Endometrial stromal nodule
The Netherlands, Amstelveen - Cellular leiomyoma uterus

**Case 8 - Diagnosis:**

Low grade endometrial stromal sarcoma, uterus
T-82000, M-89303

Case 8 - References:

Guzelmeric K, Ergen B, Pirimoglu ZM, et al. Low-Grade Endometrial Stromal Sarcoma with Retroperitoneal Metastases. An Unusual Case Report. *Arch Gynecol Obstet* 2007; 7.
Policarpio-Nicolas ML, Cathro HP, Kerr SE, et al. Cytomorphologic Features of Low-Grade Endometrial Stromal Sarcoma. *Am J Clin Pathol* 2007; 128(2):265-271.
Moinfar F, Azodi m, Tavassoli FA. Uterine Sarcomas. *Pathol* 2007; 39(1):55-71.
Baker P and Oliva E. Endometrial Stromal Tumours of the Uterus. A Practical Approach Using Conventional Morphology and Ancillary Techniques. *J Clin Pathol* 2007; 60(3):235-243.

## Case No. 9, Accession No. 30280 September 2007

Arcadia - High grade rhabdomyosarcoma
Claremont - Epithelial leiomyosarcoma
Glendale - Malignant mixed mullerian tumor
Hayward/Fremont - Myosarcoma
Long Beach (Veterans Hospital) - Sarcoma, NOS
Monterey Peninsula (Community Hospital) - Sarcoma, high grade
Mountain View (El Camino Hospital) - Rhabdomyosarcoma (2)
Oakland (Alameda County Medical Center) - Pleomorphic rhabdomyosarcoma (1); MMT (1)
Orange - Sarcoma
Oxnard (St. John's Regional Medical Center) - Rhabdomyosarcoma (mixed mullerian tumor) (1); Epithelioid leiomyosarcoma (1); Sarcoma ? Rhabdomyosarcoma (2)
San Diego - Malignant mixed mullerian tumor with heterologous elements (rhabdomyosarcoma)
San Diego (Naval Medical Center) - High grade sarcoma, rule out MMMT
San Francisco (San Francisco General Hospital) - Carcinosarcoma with heterologous elements
Santa Rosa (Santa Rosa Memorial Hospital) - Rhabdomyosarcoma (1); Malignant neoplasm, NOS (1); Undifferentiated neoplasm, probable malignant mixed mesodermal tumor (1)
Sonoma (Sonoma Valley Hospital) - Malignant mixed mullerian tumor
Woodland Hills - Rhabdomyosarcoma
Alabama (Baptist Medical Center) - Rhabdomyosarcoma
Alabama (Mt. Olive) - Alveolar rhabdomyosarcoma

Florida (Baptist Hospital) - Epithelioid leiomyosarcoma (2); Epithelioid leiomyoma, leiomyoblastoma type (1)
Florida (Pensacola) - Epithelioid trophoblastic tumor
Georgia, Decatur - Stromal sarcoma, high grade consistent with rhabdomyosarcoma
Illinois, Burr Ridge - Leiomyosarcoma, high grade
Illinois (Heartland Regional Medical Center) - Leiomyosarcoma
Indiana, Ft. Wayne (St. Joseph) - Clear cell carcinoma (1); Yolk sac tumor (1)
Louisiana, River Ridge - Mixed mullerian tumor of the uterus
Maryland (National Naval Medical Center) - Pleomorphic rhabdomyosarcoma
Massachusetts (Tufts-New England Medical Center) - Sarcoma with rhabdoid features
Minnesota (Fairview Ridges Hospital) - High grade sarcoma with heterologous component/rhabdomyosarcoma
Missouri (Missouri Delta Medical Center) - High grade sarcoma (leiomyosarcoma consistent with rhabdoid features)
Nevada, Las Vegas - Rhabdomyosarcoma
New Mexico, Albuquerque - Malignant muscle vs. rhabdoid
New York (Long Island Jewish Medical Center) - Favor epithelioid leiomyosarcoma with rhabdoid features
New York (Nassau University Medical Center - Myosarcoma
New York (Stonybrook University Medical Center Residents) - Rhabdomyosarcoma
New York (SUNY Downstate Medical Center) - Rhabdomyosarcoma vs. uterine epithelioid
New York (Westchester Medical Center) - Rhabdomyosarcoma vs. rhabdoid tumor
Ohio (McCullough-Hyde Memorial Hospital) - Sarcoma, high grade
Pennsylvania (Conemaugh Hospital) - MMMT with rhabdoid component
Pennsylvania (Drexel University of Medicine) - Rhabdomyosarcoma
Pennsylvania (Magee Women's Hospital) - Pleomorphic sarcoma, favor mixed mullerian tumor
Pennsylvania (St. Elizabeth Health Center) - Leiomyosarcoma
Puerto Rico (University of Puerto Rico) - Rhabdoid tumor/rhabdomyosarcoma
Rhode Island (Brown University) - Epithelioid trophoblastic tumor
Texas - High grade sarcoma
Texas (Crystal Beach) - Rhabdoid tumor
Texas, Lubbock - Rhabdomyosarcoma
Texas (Scott & White Memorial Hospital) - High grade malignancy with rhabdoid features
Texas (St. Lukes Episcopal Hospital) - Rhabdomyosarcoma
Texas, Sugar Land - Rhabdomyosarcoma
Texas, Victoria - High grade sarcoma
Washington, DC - Clear cell carcinoma
West Virginia (Greenbrier Valley Medical Center) - Leiomyosarcoma
Wisconsin (Meriter Hospital) - Rhabdomyosarcoma, possibly part of carcinosarcoma
Canada (Pasqua Hospital) - Sarcoma ? rhabdo
Canada (Sherbrooke University Hospital) - Rhabdomyosarcoma vs. rhabdoid tumor
Hong Kong (Hong Kong Baptist Hospital ) - Rhabdomyosarcoma
Hong Kong (Kwong Wah Hospital) - High grade sarcoma (needs to examine more blocks to look for carcinoma/cpithelial component)
Ireland (Kerry General Hospital) - Oxyphilic clear cell carcinoma
Japan (Asahi General Hospital) - Rhabdomyosarcoma
Japan (Kyoto University Hospital) - Rhabdomyosarcoma (possibly a part of MMMT, heterologous)
Japan (Saiseikai Maebashi Hospital) - Rhabdomyosarcoma
Oman (Khoula Hospital) - Heterologous sarcoma (rhabdomyosarcoma/malignant rhabdoid
The Netherlands, Amstelveen - (Epithelioid) leiomyosarcoma uterus

**Case 9 - Diagnosis:**

Epithelioid myosarcoma, uterus
T-82000, M-88903

Case 9 - References:

Buscema J, Carpenter SE Rosenshein NB, et al. Epithelioid Leiomyosarcoma of the Uterus. *Cancer* 1986; 57(6):1192-1196.

Mittal, K, and Joutovsky A. Areas with Benign Morphologic and Immunohistochemical Features are Associated with Some Uterine Leiomyosarcomas. *Gynecol Oncol* 2007; 104(2):362-365.

Simpson, K, and Albores-Saavedra J. HMB-45 Reactivity in Conventional Uterine Leiomyosarcomas. *Am J of Surg Pathol* 2007; 31(1):95-98.
Juang CM, Yen MS, Horng HC, et al. Potential Role of Preoperative Serum CA125 for the Differential Diagnosis Between Uterine Leiomyoma and Uterine Leiomyosarcoma. *European J of Gynecol Cancer* 2006; 16(2):849-853.
Anderson SE, Nonaka D, Chuai S, et al. P53, Epidermal Growth Factor, and Platelet-Derived Growth Factor in Uterine Leiomyosarcoma and Leiomyomas. *Int J of Gynecol Cancer* 2006; 16(2):849-853.
Leiser, AL, Anderson SE, Nonaka, D, et al. Apoptotic and Cell Cycle Regulatory Markers in Uterine Leiomyosarcoma. *Gynecol Oncol* 2006; 101(1):86-91.
Akhan SE, Yavuz E, Tecer A, The Expression of Ki-67, p53, Estrogen and Progesterone Receptors Affecting Survival in Uterine Leiomyosarcomas. A Clinicopathologic Study. *Gynecol Oncol* 2005; 99(1):36-42.

**Case No. 10, Accession No. 30566** **September 2007**

Arcadia - Mucinous adenocarcinoma
Claremont - Serous LMP
Glendale - Metastatic carcinoma
Hayward/Fremont - Mucinous carcinoma, intestinal type
Long Beach (Veterans Hospital) - Mucin-producing adenocarcinoma (intestinal type)
Monterey Peninsula (Community Hospital) - Adenocarcinoma, endometrioid vs. metastatic (GI)
Mountain View (El Camino Hospital) - Metastatic colonic adenocarcinoma (2)
San Francisco (UCSF) - Mucinous carcinoma, intestinal type
Oakland (Alameda County Medical Center) - Mucinous adenocarcinoma (primary vs. metastatic) (1); Mucinous endometrioid carcinoma ? colonic (1)
Orange - Adenocarcinoma consistent with metastatic colonic adenocarcinoma
Oxnard (St. John's Regional Medical Center) - Mucinous adenocarcinoma primary vs. metastatic (1); Endometrioid ovarian adenocarcinoma (1); Endometrioid ovarian adenocarcinoma (1); Adenocarcinoma differential endometrioid ovarian primary vs. colonic metastasis (1)
San Diego - Mucinous carcinoma
San Diego (Naval Medical Center) - Mucinous cystadenocarcinoma
San Francisco (San Francisco General Hospital) - Mucinous cystadenocarcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Papillary mucinous cystadenocarcinoma (3)
Sonoma (Sonoma Valley Hospital) - Consistent with metastatic adenocarcinoma from large bowel
Woodland Hills - Rule out metastatic colorectal adenocarcinoma
Alabama (Baptist Medical Center) - Mucinous adenocarcinoma
Alabama (Mt. Olive) - Endometrioid adenocarcinoma, well differentiated
Florida (Baptist Hospital) - Adenocarcinoma, favor metastatic colon carcinoma (1); Serous carcinoma vs. metastatic colon (1); Adenocarcinoma consistent with colon (1)
Florida (Pensacola) - Mucinous adenocarcinoma (ovarian vs. metastatic colon)
Georgia, Decatur - Adenocarcinoma, suggestive of metastatic colonic adenocarcinoma
Illinois, Burr Ridge - Metastatiac adenocarcinoma favor intestinal origin
Illinois (Heartland Regional Medical Center) - Well to moderately differentiated adenocarcinoma, needs evaluation for possible metastatic adenocarcinoma of colon origin
Indiana, Ft. Wayne (St. Joseph) - Metastatic adenocarcinoma from a GI primary (1); Metastatic carcinoma favor colon primary (1)
Louisiana, River Ridge - Mucinous cystadenocarcinoma of the ovary
Maryland (National Naval Medical Center) - Metastatic adenocarcinoma, favor colon primary
Massachusetts (Tufts-New England Medical Center) - Mucinous adenocarcinoma intestinal type
Minnesota (Fairview Ridges Hospital) - Metastatic colorectal carcinoma
Missouri (Missouri Delta Medical Center) - GI tumor metastatic to ovary (Krukenberg's tumor)
Nevada, Las Vegas - Mucinous borderline tumor consistent with intraepithelial carcinoma
New Mexico, Albuquerque - Adenocarcinoma rule out metastatic vs. endometrioid carcinoma
New York (Long Island Jewish Medical Center) - Favor metastatic colonic adenocarcinoma
New York (Nassau University Medical Center - Endometrioid carcinoma
New York (Stonybrook University Medical Center Residents) - Metastatic adenocarcinoma
New York (SUNY Downstate Medical Center) - Metastatic colonic adenocarcinoma

New York (Westchester Medical Center) - Mucinous tumor of ovary
Ohio (McCullough-Hyde Memorial Hospital) - Endometrioid adenocarcinoma
Pennsylvania (Conemaugh Hospital) - Adenocarcinoma, colloid type
Pennsylvania (Drexel University of Medicine) - Mucinous adenocarcinoma, intestinal type
Pennsylvania (Magee Women's Hospital) - Mucinous adenocarcinoma, intestinal type, favor ovarian primary
Pennsylvania (St. Elizabeth Health Center) - Mucinous adenocarcinoma ovarian vs. metastatic
Puerto Rico (University of Puerto Rico) - Mucinous adenocarcinoma
Rhode Island (Brown University) - Metastatic colonic carcinoma
South Dakota (LCM Pathologists, P.C.) - Metastatic colon carcinoma
Texas - Adenocarcinoma, moderately differentiated (metastatic?)
Texas (Crystal Beach) - Adenocarcinoma mostly serous
Texas, Lubbock - Endometrioid carcinoma
Texas (Scott & White Memorial Hospital) - Endometrioid adenocarcinoma
Texas (St. Lukes Episcopal Hospital) - Mucinous carcinoma
Texas, Sugar Land - Mucin producing adenocarcinoma, rule out metastatic
Texas, Victoria - Adenocarcinoma, moderately differentiated (metastatis?)
Washington, DC - Mucinous carcinoma
West Virginia (Greenbrier Valley Medical Center) - Cystadenocarcinoma mucinous
Wisconsin (Meriter Hospital) - Adenocarcinoma, endometrioid vs. metastatic
Canada (Pasqua Hospital) - Metastatic carcinoma
Canada (Sherbrooke University Hospital) - Mucinous adenocarcinoma (metastasis?)
Hong Kong (Hong Kong Baptist Hospital) - Mucinous adenocarcinoma, cannot exclude metastasis
Hong Kong (Kwong Wah Hospital) - Adenocarcinoma (metastatic) to confirm with immunostains (CK& CK20)
Ireland (Kerry General Hospital) - Mucinous carcinoma
Japan (Asahi General Hospital) - Mucinous cystadenocarcinoma
Japan (Kyoto University Hospital) - Mucinous adenocarcinoma
Japan (Saiseikai Maebashi Hospital) - Endometrioid adenocarcinoma
Oman (Khoula Hospital) - Mucinous borderline tumor, intestinal type
The Netherlands, Amstelveen - Mucinous adenocarcinoma, ovary

**Case 10 - Diagnosis:**

Metastatic adenocarcinoma to ovary, probably colonic origin (Krukenberg tumor)
T-87000, M-84906

Case 10 - References:

Al-Agha OM and Nicastri AD. An In-Depth Look at Krukenberg Tumor. An Overview. *Arch Pathol Lab Med* 2006; 130(11):1725-1730.

Lerwill MF and Young RH. Ovarian Metastases of Intestinal-Type Gastric Carcinoma. A Clinicopathologic Study of 4 Cases with Contrasting Features to Those of the Krukenberg Tumor. *Am J Surg Pathol* 2006; 30(11):1382-1388.

Young RH. From Krukenberg to Today. The Ever Present Problems Posed by Metastatic Tumors in the Ovary. Part 1. Historical Perspective, General principles, Mucinous Tumors Including the Krukenberg Tumor. *Adv Anat Pathol* 2006; 13(5):205-227.

Kiyokawa T, Young RH and Scully RE. Krukenberg Tumors of the Ovary. A Clinicopathologic Analysis of 120 Cases with Emphasis on Their Variable Pathologic Manifestations. *Am J Surg Pathol* 2006; 30(3):277-299.

Vang R, Bague S, Tavassoli FA, et al. Signet-Ring Stromal Tumor of the Ovary. Clinicopathologic Analysis and Comparison with Krukenberg Tumor. *Int J Gynecol Pathol* 2004; 23(1):45-51.