



CALIFORNIA
TUMOR TISSUE REGISTRY

GYNECOLOGIC PATHOLOGY

Minutes – Subscription B

March 2010



SUGGESTED READING (General Topics from Recent Literature):

Core components of a comprehensive quality assurance program in anatomic pathology. Nakhleh RE. *Adv Anat Pathol* 2009 Nov;16(6): p418-23
EGFR, HER-2 and COX-2 levels in colorectal cancer. Antonacopoulou AG; Tsamandas AC, et al. *Histopathology* 2008 Dec;53(6): p698-706
Gene expression profiling in cancers of unknown primary. Varadhachary GR; Raber MN. *J Clin Oncol* 2009 Sep 1;27(25): pe85-6; author reply e87-8
Molecular classification of unknown primary cancer. Bender RA; Erlander MG. *Semin Oncol* 2009 Feb;36(1): p38-43
Epithelioid soft tissue tumors. Dei Tos AP; Wagner AJ, et al. *Semin Oncol* 2009 Aug;36(4): p347-57
Pediatric sarcomas occurring in adults. Maki RG. *J Surg Oncol* 2008 Mar 15;97(4): p360-8

California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
Loma Linda University School of Medicine
11021 Campus Avenue, AH 335
Loma Linda, California 92350
(909) 558-4788
FAX: (909) 558-0188
E-mail: cttr@linkline.com
Web site & Case of the Month: www.cttr.org

FILE DIAGNOSES

CTTR Subscription B

March 2010

Case 1:

Papillary serous adenocarcinoma, adnexa (predominantly oviduct)
T-87000, M-84413

Case 2:

Mitotically active cellular fibroma, ovary
T-87000, M-88100

Case 3:

Brenner tumor, ovary
T-87000, M-90000

Case 4:

Adenomatoid tumor, uterus
T-82000, M-72030

Case 5:

Mature teratoma with strumal carcinoid tumor, ovary
T-87000, M-90911

Case 6:

Papillary serous carcinoma, ovaries
T-87000, M-84613

Case 7:

Endometrioid carcinoma, ovary
T-87000, M-83803

Case 8:

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

Case 9:

Carcinosarcoma (MMMT), uterus
T-82000, M-89803

Case 10:

Carcinosarcoma (MMMT), uterus
T-82000, M-89803

Glendale - High grade papillary serous carcinoma
Loma Linda - Papillary carcinoma of ovary
Pasadena (City of Hope National Medical Center) - Serous cyst adenocarcinoma
Woodland Hills (Suda's Soldiers) - High grade papillary carcinoma, serous type
Florida (Naples Pathology Associates) - Fallopian tube adenocarcinoma
Georgia, Atlanta - Papillary serous carcinoma, high grade
Illinois (Heartland Regional Medical Center) - Serous adenocarcinoma of fallopian tube, high grade
Illinois (Loyola University Medical Center) - Invasive papillary serous carcinoma, high grade
Kansas (Coffeyville Regional Medical Center) - Papillary adenocarcinoma
Maryland (University of Maryland Medical Center) - High grade serous adenocarcinoma
Michigan (Henry Ford Hospital Residents) - Serous adenocarcinoma, fallopian tube
New York (Albany Medical Center) - Papillary serous carcinoma
New York (St. Lukes Roosevelt Hospital) - Serous carcinoma, fallopian tube origin (4)
New York (SUNY Stony Brook) - Serous carcinoma, high grade
New York (SUNY Downstate Medical Center) - Papillary serous carcinoma
New York (Westchester Medical Center) - Papillary serous carcinoma
Ohio (University of Toledo Medical Center) - Malignant serous tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Transitional carcinoma of ovary/malignant Brunner tumor
Pennsylvania (Magee Women's Hospital) - Serous carcinoma, micropapillary variant
Puerto Rico (University of Puerto Rico) - High grade serous papillary carcinoma (probably from fallopian tube)
Tennessee, Knoxville - Papillary serous carcinoma
Texas, Crystal Beach - Adenocarcinoma papillary (fallopian tube)
Texas, Lubbock - Fallopian tube carcinoma
Texas (Scott & White Memorial Hospital) - High grade serous carcinoma
Texas (UTHSC San Antonio Residents) - Papillary serous carcinoma
United Kingdom (John Radcliffe Hospital) - Papillary serous carcinoma
Washington (University of Washington Medical Center/Washington Warriors) - Endometrioid carcinoma
Wisconsin (St. Mary's Hospital) - Papillary serous adenocarcinoma, tubal
Australia (St. Vincent's Hospital, Sydney) - High grade serous carcinoma
Canada (Pasqua Hospital) - Serous carcinoma
Canada (University of Sherbrooke) - Seropapillary carcinoma
Japan (Asahi General Hospital) - Serous adenocarcinoma of fallopian tube
Japan (Shizuoka Tokushukai Hospital) - Papillary serous adenocarcinoma
Japan (University of Yamanashi) - Malignant mesothelioma
Singapore (Freelance Locum Practice) - Serous adenocarcinoma, high grade, involving the fallopian tube
Spain (Provisa Medical Center) - Serous papillary adenocarcinoma
The Netherlands, Amstelveen - Serous adenocarcinoma

Case 1 - Diagnosis:

Papillary serous adenocarcinoma, adnexa (predominantly oviduct)

T-87000, M-84413

Case 1 - References:

Primary adenocarcinoma of fallopian tube--a case report. Kalyani R; Kumar ML; Srikantia SH. *Indian J Pathol Microbiol* 2005 Apr;48(2): p219-21
 Immunohistochemical detection of glucose transporter GLUT1 in benign and malignant fallopian tube epithelia, with comparison to ovarian carcinomas. Kalir T; Rahaman J, et. al. *Arch Pathol Lab Med* 2005 May;129(5): p651-4
 Serous adenocarcinoma of the fallopian tube, associated with verrucous carcinoma of the uterine cervix: a case report of synchronic rare gynecological tumors. Cantu de Leon D; Perez Montiel D, et al. *World J Surg Oncol* 2009;7:20
 Fallopian tube malignancies: A retrospective clinical pathological study of 17 cases. Liapis A; Bakalianou K, et. al. *J Obstet Gynecol* 2008 Jan;28(1): p93-5
 Recommendations for the reporting of fallopian tube neoplasms. Longacre TA; Oliva E; Soslow RA. *Hum Pathol* 2007 Aug;38(8): p1160-3

Glendale - Fibrothecoma
Loma Linda - Thecoma tumor
Pasadena (City of Hope National Medical Center) - Fibrosarcoma
Woodland Hills (Suda's Soldiers) - Fibrosarcoma arising in fibroma
Florida (Naples Pathology Associates) - Fibrosarcoma
Georgia, Atlanta - Fibrothecoma
Illinois (Heartland Regional Medical Center) - Cellular fibroma, mitotically active, cannot exclude fibrosarcoma
Illinois (Loyola University Medical Center) - Cellular fibroma
Kansas (Coffeyville Regional Medical Center) - Leiomyosarcoma, low grade
Maryland (University of Maryland Medical Center) - Low grade fibrosarcoma
Michigan (Henry Ford Hospital Residents) - Cellular fibroma
New York (Albany Medical Center) - Mitotically active fibrothecoma
New York (St. Lukes Roosevelt Hospital) - Mitotically active cellular fibroma (4)
New York (SUNY Stony Brook) - Cellular fibrothecoma, mitotically active
New York (SUNY Downstate Medical Center) - Malignant thecoma
New York (Westchester Medical Center) - Fibrothecoma
Ohio (University of Toledo Medical Center) - Fibrosarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Fibrothecoma
Pennsylvania (Magee Women's Hospital) - Fibrothecoma
Puerto Rico (University of Puerto Rico) - Mitotically active cellular fibrothecoma/rule out sarcoma
Tennessee, Knoxville - Ovarian fibroma with torsion
Texas, Crystal Beach - Ovarian fibroma
Texas, Lubbock - Fibrosarcoma
Texas (Scott & White Memorial Hospital) - Fibroma
Texas (UTHSC San Antonio Residents) - Fibrothecoma
United Kingdom (John Radcliffe Hospital) - Mitotically active cellular fibroma
Washington (University of Washington Medical Center/Washington Warriors) - Cellular fibroma
Wisconsin (St. Mary's Hospital) - Fibroma/thecoma, possible low grade fibrosarcoma
Australia (St. Vincent's Hospital, Sydney) - Cellular fibroma (7); Fibromatosis (1)
Canada (Pasqua Hospital) - Cellular fibroma
Canada (University of Sherbrooke) - Fibrosarcoma
Japan (Asahi General Hospital) - Fibroma
Japan (Shizuoka Tokushukai Hospital) - Thecoma
Japan (University of Yamanashi) - Thecoma
Singapore (Freelance Locum Practice) - Fibroma with increased mitotic activity, low grade fibrosarcoma cannot be excluded
Spain (Provisa Medical Center) - Fibrosarcoma
The Netherlands, Amstelveen - Thecoma

Case 2 - Diagnosis:

Mitotically active cellular fibroma, ovary
T-87000, M-88100

Consultation: Dr. Gary Keeney, Mayo Clinic: "Mitotically active cellular fibroma, ovary"

Case 2 - References:

A unique fibrous tumor of the ovary: fibrosarcoma or mitotically active cellular fibroma? Kaku S; Takeshima N, et. al. *Anticancer Res* 2007 Nov-Dec;27(6C): p4365-9
Cellular fibromas of the ovary: a study of 75 cases including 40 mitotically active tumors emphasizing their distinction from fibrosarcoma. Irving JA; Alkushi A; Young RH; Clement PB. *Am J Surg Pathol* 2006 Aug;30(8): p929-38
Ovarian fibroma: an unusual morphological presentation with elevated CA-125. Arya A; Rao S, et. al. *Indian J Pathol Microbiol* 2008 Oct-Dec;51(4): p523-4

Ovarian spindle cell lesions: a review with emphasis on recent developments and differential diagnosis. Irving JA; McCluggage WG. *Adv Anat Pathol* 2007 Sep;14(5): p305-19
Ovarian fibroma: a review on the clinical characteristics, diagnostic difficulties, and management options of 23 cases. Leung SW; Yuen PM. *Gynecol Obstet Invest* 2006;62(1): p1-6

Case No. 3, Accession No. 31079

March 2010

Glendale - Brenner tumor
Loma Linda - Brenner tumor of ovary
Pasadena (City of Hope National Medical Center) - Brenner tumor
Woodland Hills (Suda's Soldiers) - Brenner tumor
Florida (Naples Pathology Associates) - Brenner tumor
Georgia, Atlanta - Brenner tumor
Illinois (Heartland Regional Medical Center) - Brenner tumor
Illinois (Loyola University Medical Center) - Brenner tumor
Kansas (Coffeyville Regional Medical Center) - Brenner tumor
Maryland (University of Maryland Medical Center) - Benign Brenner tumor
Michigan (Henry Ford Hospital Residents) - Brenner tumor
New York (Albany Medical Center) - Brenner tumor
New York (St. Lukes Roosevelt Hospital) - Benign Brenner tumor (4)
New York (SUNY Stony Brook) - Brenner tumor
New York (SUNY Downstate Medical Center) - Brenner tumor
New York (Westchester Medical Center) - Benign Brenner tumor
Ohio (University of Toledo Medical Center) - Brenner tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Brenner gland tumor
Pennsylvania (Magee Women's Hospital) - Brenner tumor
Puerto Rico (University of Puerto Rico) - Benign Brenner tumor
Tennessee, Knoxville - Brenner tumor
Texas, Crystal Beach - Brenner tumor
Texas, Lubbock - Brenner tumor
Texas (Scott & White Memorial Hospital) - Brenner tumor
Texas (UTHSC San Antonio Residents) - Brenner tumor
United Kingdom (John Radcliffe Hospital) - Brenner tumor
Washington (University of Washington Medical Center/Washington Warriors) - Benign Brenner tumor
Wisconsin (St. Mary's Hospital) - Brenner tumor
Australia (St. Vincent's Hospital, Sydney) - Brenner tumor
Canada (Pasqua Hospital) - Brenner tumor
Canada (University of Sherbrooke) - Brenner tumor
Japan (Asahi General Hospital) - Brenner tumor
Japan (Shizuoka Tokushukai Hospital) - Brenner tumor
Japan (University of Yamanashi) - Brenner tumor
Singapore (Freelance Locum Practice) - Brenner tumor
Spain (Provisa Medical Center) - Benign Brenner tumor
The Netherlands, Amstelveen - Brenner tumor

Case 3 - Diagnosis:

Brenner tumor, ovary
T-87000, M-90000

Case 3 - References:

p63 expression in ovarian tumours: a marker for Brenner tumours but not transitional cell carcinomas. Liao XY; Xue WC, et. al. *Histopathology* 2007 Oct;51(4): p477-83

Transitional cell tumors of the ovary: a comparative clinicopathologic, immunohistochemical, and molecular genetic analysis of Brenner tumors and transitional cell carcinomas. Cuatrecasas M; Catusus L, et. al. *Am J Surg Pathol* 2009 Apr;33(4): p556-67

Exploring the histogenesis of ovarian mucinous and transitional cell (Brenner) neoplasms and their relationship with Walthard cell nests: a study of 120 tumors. Seidman JD; Khedmati F. *Arch Pathol Lab Med* 2008 Nov;132(11): p1753-60

Benign epithelial ovarian tumours-cancer precursors or markers for ovarian cancer risk? Jordan S; Green A; Webb P. *Cancer Causes Control* 2006 Jun;17(5): p623-32

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

Case No. 4, Accession No. 31032

March 2010

Glendale - Adenomatoid tumor
Loma Linda - Lymphangioma, uterus
Pasadena (City of Hope National Medical Center) - Adenomatoid tumor
Woodland Hills (Suda's Soldiers) - Adenomatoid tumor
Florida (Naples Pathology Associates) - Adenomatoid tumor
Georgia, Atlanta - Adenomatoid tumor
Illinois (Heartland Regional Medical Center) - Adenomatoid tumor (benign meothelioma)
Illinois (Loyola University Medical Center) - Adenomatoid tumor
Kansas (Coffeyville Regional Medical Center) - Adenomatoid tumor vs. lymphangioma (need cytokeratin stain)
Maryland (University of Maryland Medical Center) - Adenomatoid tumor
Michigan (Henry Ford Hospital Residents) - Lymphangiomatosis
New York (Albany Medical Center) - Adenomatoid tumor
New York (St. Lukes Roosevelt Hospital) - Lymphangioleiomyomatosis (4)
New York (SUNY Stony Brook) - Adenomatoid tumor
New York (SUNY Downstate Medical Center) - Adenomatoid tumor
New York (Westchester Medical Center) - Adenomatoid tumor of uterus
Ohio (University of Toledo Medical Center) - Adenomatoid tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Adenomatoid tumor
Pennsylvania (Magee Women's Hospital) - Adenomatoid tumor
Puerto Rico (University of Puerto Rico) - Adenomatoid tumor
Tennessee, Knoxville - Adenomatoid tumor
Texas, Crystal Beach - Adenomatoid tumor
Texas, Lubbock - Adenomatoid tumor
Texas (Scott & White Memorial Hospital) - Benign lymphovascular dilatation
Texas (UTHSC San Antonio Residents) - Adenomatoid tumor
United Kingdom (John Radcliffe Hospital) - Adenomatoid tumor
Washington (University of Washington Medical Center/Washington Warriors) - Lymphangioleiomyomatosis
Wisconsin (St. Mary's Hospital) - Adenomatoid tumor
Australia (St. Vincent's Hospital, Sydney) - Adenomatoid tumor
Canada (Pasqua Hospital) - Adenomatoid tumor
Canada (University of Sherbrooke) - Adenomatoid tumor
Japan (Asahi General Hospital) - Adenomatoid tumor
Japan (Shizuoka Tokushukai Hospital) - Adenomatoid tumor
Japan (University of Yamanashi) - Adenomatoid tumor
Singapore (Freelance Locum Practice) - Adenomatoid tumor
Spain (Provisa Medical Center) - Adenomatoid tumor
The Netherlands, Amstelveen - Adenomatoid tumor

Case 4 - Diagnosis:

Adenomatoid tumor, uterus
T-82000, M-72030

Case 4 - References:

A novel approach in the management of a recurrent adenomatoid tumor of the uterus utilizing a Strassman technique.
Sieunarine K; Cowie AS, et al. *Int J Gynecol Cancer* 2005 Jul-Aug;15(4): p671-5
Cystic adenomatoid tumor of the uterus. Leaha C; Opris I, et al. *Ann Pathol* 2009 Apr;29(2): p134-7
Pathologic quiz case: a 52-year-old woman with a uterine mass. Leiomyo-adenomatoid tumor of the uterus. Amre R;
Constantino J, et al. *Arch Pathol Lab Med* 2005 Mar;129(3): pe77-8
Fine needle aspiration cytology of adenomatoid tumour--a case report with review of literature. Manjunath GV; Nandini
NM; Sunila. *Indian J Pathol Microbiol* 2005 Oct;48(4): p503-4
Adenomatoid tumor of the adrenal gland. Wojewoda CM; Wasman JK; MacLennan GT. *J Urol* 2008 Sep;180(3):
p1123

Case No. 5, Accession No. 31037

March 2010

Glendale - Struma carcinoid
Loma Linda - Gonadoblastoma
Pasadena (City of Hope National Medical Center) - Carcinoid
Woodland Hills (Suda's Soldiers) - Strumal carcinoid
Florida (Naples Pathology Associates) - Carcinoid tumor arising in cystic teratoma
Georgia, Atlanta - Strumal carcinoid
Illinois (Heartland Regional Medical Center) - Teratoma with strumal carcinoid tumor
Illinois (Loyola University Medical Center) - Carcinoid
Kansas (Coffeyville Regional Medical Center) - Mature teratoma consistent with neuroendocrine tumor (? Carcinoid)
Maryland (University of Maryland Medical Center) - Strumal carcinoid
Michigan (Henry Ford Hospital Residents) - Immature teratoma
New York (Albany Medical Center) - Carcinoid tumor
New York (St. Lukes Roosevelt Hospital) - Stromal carcinoid (4)
New York (SUNY Stony Brook) - Carcinoid tumor associated with a teratoma
New York (SUNY Downstate Medical Center) - Strumal carcinoid
New York (Westchester Medical Center) - Strumal carcinoid
Ohio (University of Toledo Medical Center) - Teratoma (strumal carcinoid tumor)
Pennsylvania (Conemaugh Memorial Medical Center) - Strumal carcinoid
Pennsylvania (Magee Women's Hospital) - Neuroendocrine carcinoma arising in background of strumal carcinoid
Puerto Rico (University of Puerto Rico) - Strumal carcinoid (teratoma)
Tennessee, Knoxville - Struma carcinoid
Texas, Crystal Beach - Ovarian teratocarcinoma
Texas, Lubbock - Struma ovary with atypical carcinoid
Texas (Scott & White Memorial Hospital) - Struma ovarii with carcinoid tumor
Texas (UTHSC San Antonio Residents) - Strumal carcinoid
United Kingdom (John Radcliffe Hospital) - Strumal carcinoid
Washington (University of Washington Medical Center/Washington Warriors) - Carcinoid tumor (monodermal teratoma)
Wisconsin (St. Mary's Hospital) - Carcinoid tumor and struma ovarii most likely from dermoid cyst
Australia (St. Vincent's Hospital, Sydney) - Carcinoid (neuroendocrine tumor)
Canada (Pasqua Hospital) - Strumal carcinoid
Canada (University of Sherbrooke) - Strumal carcinoid
Japan (Asahi General Hospital) - Carcinoid tumor
Japan (Shizuoka Tokushukai Hospital) - Strumal carcinoid tumor
Japan (University of Yamanashi) - Carcinoid
Singapore (Freelance Locum Practice) - Struma carcinoid
Spain (Provisa Medical Center) - Carcinoid
The Netherlands, Amstelveen - Strumal carcinoid of the ovary (malignant)

Case 5 - Diagnosis:

Mature teratoma with strumal carcinoid tumor, ovary
T-87000, M-90911

Director's note: Other slides showed skin structures and epidermal cyst formation.

Case 5 - References:

Strumal carcinoid tumor of the ovary. Gorin I; Sastre-Garau X. *J Clin Oncol* 2008 Jun 1;26(16): p2780-1
The enigma of struma ovarii. Roth LM; Talerman A. *Pathology* 2007 Feb;39(1): p139-46
Primary ovarian carcinoid tumors may express CDX-2: a potential pitfall in distinction from metastatic intestinal carcinoid tumors involving the ovary. Rabban JT; Lerwill MF, et. al. *Int J Gynecol Pathol* 2009 Jan;28(1): p41-8
Typical thyroid-type carcinoma arising in struma ovarii: a report of 4 cases and review of the literature. Roth LM; Miller AW; Talerman A. *Int J Gynecol Pathol* 2008 Oct;27(4): p496-506
Struma Ovarii with a focus of follicular variant of papillary thyroid cancer: a case report. Lao M; Koike J; Chauhan S; Schiano M; Plata M. *W V Med J* 2008 Jul-Aug;104(4): p12-4
Stage IV micropapillary serous ovarian carcinoma: a report of three cases. Kim YW; Srodon M; Bristow RE. *Int J Gynecol Pathol* 2005 Jul;24(3): p235-8

Case No. 6, Accession No. 31085

March 2010

Glendale - Serous tumor of low malignant potential
Loma Linda - Serous papillary adenocarcinoma, ovary
Pasadena (City of Hope National Medical Center) - Serous borderline tumor with micropapillary pattern
Woodland Hills (Suda's Soldiers) - Borderline serous tumor with focal micropapillary pattern
Florida (Naples Pathology Associates) - Papillary serous carcinoma
Georgia, Atlanta - Serous borderline tumor
Illinois (Heartland Regional Medical Center) - Serous papillary tumor of borderline malignancy
Illinois (Loyola University Medical Center) - Borderline micropapillary serous carcinoma
Kansas (Coffeyville Regional Medical Center) - Serous papillary cystadenoma, borderline
Maryland (University of Maryland Medical Center) - Serous borderline tumor
Michigan (Henry Ford Hospital Residents) - Serous adenocarcinoma
New York (Albany Medical Center) - Serous borderline tumor with micropapillary features and intraepithelial carcinoma
New York (St. Lukes Roosevelt Hospital) - Serous borderline tumor (4)
New York (SUNY Stony Brook) - Borderline serous tumor
New York (SUNY Downstate Medical Center) - Serous borderline tumor, micropapillary type
New York (Westchester Medical Center) - Serous borderline tumor of ovary
Ohio (University of Toledo Medical Center) - Low grade serous carcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Papillary serous cystadenoma of ovary, borderline
Pennsylvania (Magee Women's Hospital) - Borderline serous tumor
Puerto Rico (University of Puerto Rico) - Serous borderline tumor
Tennessee, Knoxville - Papillary serous carcinoma
Texas, Crystal Beach - Papillary carcinoma
Texas, Lubbock - Papillary serous carcinoma
Texas (Scott & White Memorial Hospital) - Micropapillary serous tumor of low malignant potential
Texas (UTHSC San Antonio Residents) - Serous borderline tumor
United Kingdom (John Radcliffe Hospital) - Borderline serous tumor
Washington (University of Washington Medical Center/Washington Warriors) - Serous borderline tumor
Wisconsin (St. Mary's Hospital) - Borderline serous tumor
Australia (St. Vincent's Hospital, Sydney) - Serous borderline tumor
Canada (Pasqua Hospital) - Serous borderline tumor
Canada (University of Sherbrooke) - Serous papillary tumor, borderline
Japan (Asahi General Hospital) - Serous borderline tumor
Japan (Shizuoka Tokushukai Hospital) - Serous papillary cystic tumor of borderline malignancy
Japan (University of Yamanashi) - Serous borderline tumor
Singapore (Freelance Locum Practice) - Serous borderline tumor
Spain (Provisa Medical Center) - Serous papillary carcinoma

The Netherlands, Amstelveen - Usual serous borderline tumor

Case 6 - Diagnosis:

Papillary serous carcinoma, ovaries
T-87000, M-84613

Case 6 - References:

Papillary serous carcinoma in ovaries of normal size: a clinicopathologic study of 20 cases and comparison with extraovarian peritoneal papillary serous carcinoma. Choi CH; Kim TJ, et al. *Gynecol Oncol* 2007 Jun;105(3): p762-8

High-grade serous carcinoma of the ovary. Westfall D; Roma AA; Silva EG. *Ann Diagn Pathol* 2009 Aug;13(4): p285-90

Bilateral micropapillary serous carcinoma of the ovary: a case report. Gupta R; Singh S; Nigam S. *Arch Gynecol Obstet* 2007 May;275(5): p401-4

Primary papillary serous carcinoma of the peritoneum: report of a case with diagnosis by fine needle aspiration and immunocytochemistry. Alberti N; Serrano-Egea A, et al. *Acta Cytol* 2007 Mar-Apr;51(2): p203-6

Case No. 7, Accession No. 30934

March 2010

Glendale - Endometrioid carcinoma

Loma Linda - Serous papillary adenocarcinoma

Pasadena (City of Hope National Medical Center) - Endometrioid adenocarcinoma

Woodland Hills (Suda's Soldiers) - Endometrioid adenocarcinoma with squamous differentiation, primary vs. metastatic

Florida (Naples Pathology Associates) - Endometrioid type adenocarcinoma

Georgia, Atlanta - Papillary serous carcinoma, low grade

Illinois (Heartland Regional Medical Center) - Endometrioid adenocarcinoma

Illinois (Loyola University Medical Center) - Clear cell carcinoma

Kansas (Coffeyville Regional Medical Center) - Endometrioid adenocarcinoma

Maryland (University of Maryland Medical Center) - Endometrioid adenocarcinoma

Michigan (Henry Ford Hospital Residents) - Endometrioid carcinoma, favor metastasis

New York (Albany Medical Center) - High grade fallopian tube carcinoma

New York (St. Lukes Roosevelt Hospital) - Mixed epithelial carcinoma, serous, endometrioid (4)

New York (SUNY Stony Brook) - Borderline endometrioid tumor

New York (SUNY Downstate Medical Center) - Ovarian endometrioid borderline tumor

New York (Westchester Medical Center) - Serous cystadenocarcinoma

Ohio (University of Toledo Medical Center) - Endometrioid adenocarcinoma

Pennsylvania (Conemaugh Memorial Medical Center) - Endometrioid carcinoma

Pennsylvania (Magee Women's Hospital) - Borderline endometrioid tumor

Puerto Rico (University of Puerto Rico) - Adenocarcinoma, not otherwise specified

Tennessee, Knoxville - Sertoli Leydig cell tumor

Texas, Crystal Beach - Adenocarcinoma papillary and glandular

Texas, Lubbock - Endometrioid carcinoma

Texas (Scott & White Memorial Hospital) - Adenocarcinoma with clear cell features

Texas (UTHSC San Antonio Residents) - Endometrioid adenocarcinoma

United Kingdom (John Radcliffe Hospital) - Borderline endometrioid adenofibroma

Washington (University of Washington Medical Center/Washington Warriors) - Serous carcinoma

Wisconsin (St. Mary's Hospital) - Endometrioid adenocarcinoma

Australia (St. Vincent's Hospital, Sydney) - Borderline endometrioid tumor

Canada (Pasqua Hospital) - Endometrioid carcinoma

Canada (University of Sherbrooke) - Endometrioid carcinoma

Japan (Asahi General Hospital) - Borderline endometrioid tumor

Japan (Shizuoka Tokushukai Hospital) - Endometrioid adenocarcinoma

Japan (University of Yamanashi) - Adenocarcinofibroma

Singapore (Freelance Locum Practice) - Borderline endometrioid adenofibroma

Spain (Provisa Medical Center) - Endometrioid carcinoma
The Netherlands, Amstelveen - Endometrioid borderline tumor

Case 7 - Diagnosis:

Endometrioid carcinoma, ovary
T-87000, M-83803

Case 7 - References:

Is endometrioid cancer of the ovaries a late manifestation of Alstrom syndrome? Moberg E; Hjerpe E, et. al. *J Intern Med* 2009 Feb;265(2): p296-8
Simultaneously detected primary malignant tumors of ovary and endometrium with unusual histology. Papathanasiou K; Tolikas A, et. al. *Int J Gynecol Cancer* 2005 Nov-Dec;15(6): p1191-4
Paraneoplastic cerebellar degeneration with ovarian endometrioid carcinoma. Jain V; Prabhakar S, et. al. *Acta Obstet Gynecol Scand* 2003 Jul;82(7): p672-3
Favorable clinical behavior in young ovarian carcinoma patients: a rationale for conservative surgery? Sardi JE; Anchezar P; Bermudez A. *Int J Gynecol Cancer* 2005 Sep-Oct;15(5): p762-9
Ovarian cancer and hormone replacement therapy in the Million Women Study. Beral V; Bull D, et. al. *Lancet* 2007 May 19;369(9574): p1703-10

Case No. 8, Accession No. 31057

March 2010

Glendale - Cellular leiomyoma
Loma Linda - Endometrial stromal sarcoma
Pasadena (City of Hope National Medical Center) - Endometrial stromal sarcoma
Woodland Hills (Suda's Soldiers) - Endometrial stromal sarcoma
Florida (Naples Pathology Associates) - Endometrial stromal tumor
Georgia, Atlanta - Highly cellular leiomyoma
Illinois (Heartland Regional Medical Center) - Cellular leiomyoma
Illinois (Loyola University Medical Center) - Low grade stromal sarcoma
Kansas (Coffeyville Regional Medical Center) - Endometrial stroma sarcoma, low grade
Maryland (University of Maryland Medical Center) - Highly cellular leiomyoma
Michigan (Henry Ford Hospital Residents) - Endometrial stromal sarcoma
New York (Albany Medical Center) - Low grade endometrial stroma sarcoma
New York (St. Lukes Roosevelt Hospital) - Cellular leiomyoma (4)
New York (SUNY Stony Brook) - Endometrial stromal tumor with limited infiltration and smooth muscle differentiation
New York (SUNY Downstate Medical Center) - Cellular leiomyoma
New York (Westchester Medical Center) - Endometrial stromal tumor, low grade
Ohio (University of Toledo Medical Center) - Cellular leiomyoma
Pennsylvania (Conemaugh Memorial Medical Center) - Low grade stromal sarcoma
Pennsylvania (Magee Women's Hospital) - Cellular leiomyoma
Puerto Rico (University of Puerto Rico) - Cellular leiomyoma vs. stromal tumor
Tennessee, Knoxville - Low grade endometrial stromal sarcoma
Texas, Crystal Beach - Endometrial stromal sarcoma
Texas, Lubbock - Low grade stroma sarcoma
Texas (Scott & White Memorial Hospital) - Endometrial stromal sarcoma
Texas (UTHSC San Antonio Residents) - Low grade endometrioid stromal tumor
United Kingdom (John Radcliffe Hospital) - Highly cellular leiomyoma
Washington (University of Washington Medical Center/Washington Warriors) - Endometrial stromal sarcoma
Wisconsin (St. Mary's Hospital) - Endometrial stroma sarcoma vs. smooth muscle tumor of uncertain malignant potential
Australia (St. Vincent's Hospital, Sydney) - Endometrial stromal sarcoma
Canada (Pasqua Hospital) - Endometrial stromal sarcoma
Canada (University of Sherbrooke) - Cellular leiomyoma
Japan (Asahi General Hospital) - Mixed endometrial stromal smooth muscle tumor

Japan (Shizuoka Tokushukai Hospital) - Cellular leiomyoma
Japan (University of Yamanashi) - Endometrial stromal sarcoma
Singapore (Freelance Locum Practice) - Cellular leiomyoma vs. endometrial stromal tumor
Spain (Provisa Medical Center) - Stromal nodule
The Netherlands, Amstelveen - Stromomyoma

Case 8 - Diagnosis:

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

Case 8 - References:

Low-grade endometrial stromal sarcoma: a single center's experience with 22 cases. Kim WY; Lee JW, et al. *Int J Gynecol Cancer* 2008 Sep-Oct;18(5): p1084-9
Cytomorphologic features of low-grade endometrial stromal sarcoma. Policarpio-Nicolas ML; Cathro HP, et al. *Am J Clin Pathol* 2007 Aug;128(2): p265-71
Fine needle aspiration cytology of low grade endometrial stromal sarcoma: a case report. Gupta N; Awasthi A, et al. *Acta Cytol* 2007 May-Jun;51(3): p461-3
Lymph node metastases in low-grade endometrial stromal sarcoma. Riopel J; Plante M, et al. *Gynecol Oncol* 2005 Feb;96(2): p402-6
Endometrial stromal sarcomas and related high-grade sarcomas: immunohistochemical and molecular genetic study of 31 cases. Kurihara S; Oda Y, et al. *Am J Surg Pathol* 2008 Aug;32(8): p1228-38

Case No. 9, Accession No. 31109

March 2010

Glendale - Malignant mixed mullerian tumor
Loma Linda - Endometrial stromal sarcoma
Pasadena (City of Hope National Medical Center) - Malignant mixed mullerian tumor
Woodland Hills (Suda's Soldiers) - Malignant mixed mullerian tumor
Florida (Naples Pathology Associates) - Poorly differentiated endometrial carcinoma
Georgia, Atlanta - Endometrioid carcinoma, FIGO grade 3
Illinois (Heartland Regional Medical Center) - Undifferentiated endometrial carcinoma
Illinois (Loyola University Medical Center) - Undifferentiated carcinoma
Kansas (Coffeyville Regional Medical Center) - Small cell carcinoma of endometrium
Maryland (University of Maryland Medical Center) - Carcinosarcoma
Michigan (Henry Ford Hospital Residents) - Undifferentiated carcinoma
New York (Albany Medical Center) - Small cell undifferentiated sarcoma
New York (St. Lukes Roosevelt Hospital) - Undifferentiated carcinoma vs. poorly differentiated (FIGO 3) endometrioid (4)
New York (SUNY Stony Brook) - Undifferentiated endometrial carcinoma
New York (SUNY Downstate Medical Center) - MMMT
New York (Westchester Medical Center) - Small cell carcinoma
Ohio (University of Toledo Medical Center) - Undifferentiated carcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Malignant mixed mullerian tumor
Pennsylvania (Magee Women's Hospital) - MMMT
Puerto Rico (University of Puerto Rico) - Undifferentiated carcinoma
Tennessee, Knoxville - Small cell carcinoma
Texas, Crystal Beach - Carcinoma squamous possibly cervical origin
Texas, Lubbock - Poorly differentiated carcinoma
Texas (Scott & White Memorial Hospital) - Undifferentiated carcinoma
Texas (UTHSC San Antonio Residents) - Poorly differentiated carcinoma
United Kingdom (John Radcliffe Hospital) - Poorly differentiated neuroendocrine carcinoma/small cell carcinoma
Washington (University of Washington Medical Center/Washington Warriors) - Undifferentiated carcinoma
Wisconsin (St. Mary's Hospital) - High grade undifferentiated sarcomatoid carcinoma
Australia (St. Vincent's Hospital, Sydney) - Carcinosarcoma (MMMT)
Canada (Pasqua Hospital) - High grade endometrioid carcinoma

Canada (University of Sherbrooke) - Undifferentiated carcinoma
Japan (Asahi General Hospital) - Large cell undifferentiated carcinoma
Japan (Shizuoka Tokushukai Hospital) - Poorly differentiated endometrioid adenocarcinoma
Japan (University of Yamanashi) - Neuroendocrine carcinoma
Singapore (Freelance Locum Practice) - High grade carcinoma, ?serous type
Spain (Provisa Medical Center) - Undifferentiated carcinoma
The Netherlands, Amstelveen - Endometrial stromal sarcoma

Case 9 - Diagnosis:

Carcinosarcoma (MMMT), Uterus
 T-82000, M-89803

Case 9 - References:

Carcinosarcomas (malignant mixed Mullerian tumors) of the uterus. Morphology, pathogenetic aspects and prognostic factors]. Horn LC; Dallacker M; Bilek K. *Pathologie* 2009 Jul;30(4): p292-301
 Early-stage carcinosarcoma of the uterus: the significance of lymph node count. Temkin SM; Hellmann M, et. al. *Int J Gynecol Cancer* 2007 Jan-Feb;17(1): p215-9
 Carcinosarcoma of the uterus: a case report and review of the literature. Spaziani E; Picchio M, et. al. *Eur J Gynaecol Oncol* 2008;29(5): p531-4
 Periurethral carcinosarcoma: a report of 2 cases with a review of the literature. Jayamohan Y; Urs L, et. al. *Arch Pathol Lab Med* 2005 Apr;129(4): p91-3
 Malignant mixed Mullerian tumors. Ruiz Tovar J; Reguero Callejas ME, et. al. *Clin Transl Oncol* 2006 Feb;8(2): p129-32
 Mullerian adenosarcoma: a clinicopathologic and immunohistochemical study of 55 cases challenging the existence of adenofibroma. Gallardo A; Prat J. *Am J Surg Pathol* 2009 Feb;33(2): p278-88
 Malignant mixed mullerian tumor (MMMT) of the cervix. Sharma NK; Sorosky JI, et. al. *Gynecol Oncol* 2005 May;97(2): p442-5
 Malignant mixed Mullerian tumor of the fimbriated end of the fallopian tube: origin as an intraepithelial carcinoma. Gagner JP; Mittal K. *Gynecol Oncol* 2005 Apr;97(1): p219-22
 Malignant mullerian mixed tumor (carcinosarcoma) of the fallopian tube: an immunohistochemical study of neoplastic cells. Kuroda N; Moriki T, et. al. *APMIS* 2005 Sep;113(9): p643-6
 Low-grade metaplastic adenocarcinoma (carcinosarcoma) of the uterus: report of an unusual case. Zamecnik M; Sokol L; Michal M. *Ann Diagn Pathol* 2005 Dec;9(6): p335-9

Case No. 10, Accession No. 31087

March 2010

Glendale - High grade carcinoma
Loma Linda - Anaplastic endometrial carcinoma
Pasadena (City of Hope National Medical Center) - Poorly differentiated adenocarcinoma
Woodland Hills (Suda's Soldiers) - Malignant mixed mullerian tumor, rhabdoid
Florida (Naples Pathology Associates) - Malignant mixed mullerian tumor
Georgia, Atlanta - MMMT/carcinosarcoma
Illinois (Heartland Regional Medical Center) - Poorly differentiated adenocarcinoma (convincing evidence of MMMT not seen in our slide)
Illinois (Loyola University Medical Center) - MMT with homologous elements
Kansas (Coffeyville Regional Medical Center) - Mixed mullerian tumor (malignant) of endometrium
Maryland (University of Maryland Medical Center) - Carcinosarcoma, heterologous type
Michigan (Henry Ford Hospital Residents) - Carcinosarcoma
New York (Albany Medical Center) - MMMT
New York (St. Lukes Roosevelt Hospital) - Carcinosarcoma (3); malignant mixed mesodermal tumor (1)
New York (SUNY Stony Brook) - Carcinosarcoma
New York (SUNY Downstate Medical Center) - MMMT
New York (Westchester Medical Center) - Malignant mixed mullerian tumor (MMMT) vs. undifferentiated carcinoma
Ohio (University of Toledo Medical Center) - Carcinosarcoma (malignant mixed mullerian tumor (MMMT))
Pennsylvania (Conemaugh Memorial Medical Center) - Malignant mixed mullerian tumor

Pennsylvania (Magee Women's Hospital) - MMMT, heterologous elements
Puerto Rico (University of Puerto Rico) - Carcinosarcoma (MMMT)
Tennessee, Knoxville - Carcinosarcoma
Texas, Crystal Beach - Carcinosarcoma
Texas, Lubbock - Malignant mixed mullerian tumor
Texas (Scott & White Memorial Hospital) - Carcinosarcoma (MMMT)
Texas (UTHSC San Antonio Residents) - Carcinosarcoma
United Kingdom (John Radcliffe Hospital) - Malignant mixed mullerian tumor
Washington (University of Washington Medical Center/Washington Warriors) - Carcinosarcoma (MMMT)
Wisconsin (St. Mary's Hospital) - High grade adenocarcinoma, possibly carcinosarcoma (MMMT)
Australia (St. Vincent's Hospital, Sydney) - Carcinosarcoma (MMMT)
Canada (Pasqua Hospital) - Carcinosarcoma
Canada (University of Sherbrooke) - Mixed mullerian tumor, malignant
Japan (Asahi General Hospital) - Carcinosarcoma
Japan (Shizuoka Tokushukai Hospital) - Carcinosarcoma
Japan (University of Yamanashi) - Undifferentiated carcinoma
Singapore (Freelance Locum Practice) - Carcinosarcoma
Spain (Provisa Medical Center) - Carcinosarcoma (focal small cell neuroendocrine carcinoma)
The Netherlands, Amstelveen - Carcinosarcoma of the endometrium

Case 10 - Diagnosis:

Carcinosarcoma (MMMT), Uterus
 T-82000, M-89803

Case 10 - References:

See case 9 combined references.