



CALIFORNIA
TUMOR TISSUE REGISTRY

GYNECOLOGIC PATHOLOGY

Minutes – Subscription A

April 2012



SUGGESTED READING (General Topics from Recent Literature):

Diagnosis of hidradenoma papilliferum of the vulva on cytologic smears: a case report. Uke MS; Kulkarni MB; Ajit D; Gujral S. *Acta Cytol* 2010; Sep-Oct;54(5 Suppl): p907-10.

Vulvovaginal atrophy. MacBride MB; Rhodes DJ; Shuster LT. *Mayo Clin Proc* 2010; Jan;85(1): p87-94.

Complex atypical hyperplasia of the uterus: characteristics and prediction of underlying carcinoma risk. Leitao MM; Han G, et al. *Am J Obstet Gynecol* 2010; Oct;203(4): p349.e1-6.

Ovarian frozen section diagnosis: use of whole-slide imaging shows excellent correlation between virtual slide and original interpretations in a large series of cases. Fallon MA; Wilbur DC; Prasad M. *Arch Pathol Lab Med* 2010; Jul;134(7): p1020-3.

The ovary: basic biology and clinical implications. Richards JS; Pangas SA. *J Clin Invest* 2010; Apr;120(4): p963-72.

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FILE DIAGNOSES

CTTR Subscription A

April 2012

Case 1:

Fibrothecoma, ovary
T-87000, M-86000

Case 2:

Dysgerminoma, ovary
T-87000, M-90603

Case 3:

Yolk sac tumor/endodermal sinus tumor, ovary
T-87000, M-90713

Case 4:

Seromucinous (endocervical type) borderline tumor, ovary
T-87000, M-84611

Case 5:

High grade papillary serous cystadenocarcinoma and carcinosarcoma, ovary
T-82000, M-84603

Case 6:

Metastatic papillary serous carcinoma, omentum
T-63850, M-84603

Case 7:

Poorly differentiated endometrioid adenocarcinoma with trophoblast-like giant cells, uterus
T-82000, M-83803

Case 8:

Sclerosing stromal tumor, ovary
T-87000, M-85901

Case 9:

Adult granulosa cell tumor, ovary
T-87000, M-86201

Case 10:

Carcinosarcoma/malignant Mullerian mixed tumor (MMMT), uterus
T-82000, M-89503

Alameda (Alameda County Medical Center) - Fibrothecoma
Arcadia (ABC Laboratories) - Thecoma
Long Beach (Long Beach Veterans) - Fibrothecoma
Orange (UCI Medical Center Residents) - Cystic serous adenofibroma
Orlinda (Kaiser Permanente) - Fibrothecoma
Oxnard (St. John's Regional Medical Center) - Thecoma (2)
San Diego (Naval Medical Center) - Fibrothecoma
Santa Barbara (Miramonte Laboratory) - Fibroma
Woodland Hills (So Cal Permanente Medical Group) - Thecoma
Arkansas (Associated Pathologists Laboratory) - Fibrothecoma
Colorado (McKee Medical Center) - Thecoma
Colorado (University of Colorado) - Thecoma
Georgia, Atlanta - Fibrothecoma
Hawaii (The Queen's Medical Center) - Ovarian fibroma
Illinois (Heartland Regional Medical Center) - Cellular fibroma
Illinois (Oak Brook) - Fibrothecoma
Indiana, Fishers - Thecoma
Maryland (University of Maryland) - Fibroma
Massachusetts (Tufts Medical Center) - Serous cystadenofibroma
Massachusetts (Univ of Massachusetts Medical Center) - Thecofibroma
Minnesota (Fairview Ridges Hospital) - Thecoma
Mississippi (University of Mississippi Medical Center) - Fibroma/thecoma
Nebraska (Creighton University Medical Center) - Fibrothecoma
New York (Buffalo General Hospital) - Fibrothecoma
New York (SUNY Health Science Center) - Fibrothecoma
Pennsylvania (Conemaugh Memorial Medical Center) - Fibrothecoma
Pennsylvania (Drexel University College of Medicine) - Fibrothecoma
Pennsylvania (Lehigh Valley Hospital) - Thecoma
Pennsylvania (Magee Women's Hospital) - Fibrothecoma
Puerto Rico (University of Puerto Rico) - Fibroma/fibrothecoma
Texas (Crystal Beach) - Fibroma, ovary
Texas, Lubbock - Serous cystadenoma and thecoma
Washington (Seattle, VAMC) - Fibroma
West Virginia (Greenbrier Valley Medical Center) - Cellular fibroma
Wisconsin (Kerry General Hospital) - Fibroma-thecoma
Wisconsin, Madison - Ovarian fibroma/thecoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Ovarian thecoma
Australia (Royal Hobart Hospital) - Thecoma, ovary
Australia (Royal Prince Alfred Hospital) - Fibrothecoma
Australia (Sullivan Nicolaides Pathology) - Thecoma
Canada (Pasqua Hospital) - Cellular fibroma
Ireland Kerry General Hospital) - Thecoma
Japan (Asahi General Hospital) - Fibrothecoma (1); Thecoma (1)
Japan (Setagaya-Ku) - Serous cystadenoma
Oman (Khoula Hospital) - Thecoma/fibroma with serous cystadenoma
Saudi Arabia (King Khalid University Hospital) - Ovarian thecoma with small serous cyst
Singapore (Freelance/Locum Practice) - Fibrothecoma

Case 1 - Diagnosis:

Fibrothecoma, ovary
T-87000, M-86000

Case 1 - References:

Mitotically active cellular luteinized thecoma of the ovary and luteinized thecomatosis associated with sclerosing peritonitis: case studies, comparison, and review of the literature. *Pathol Res Pract* 2010; Nov 15;206(11): p744-8 Mellembakken JR; Engh V, et al.

Fibrosarcoma of the ovary arising in a fibrothecomatous tumor with minor sex cord elements. A Case report and review of the literature. *Arch Pathol Lab Med* 2003; Jan;127(1): p81-4. Lee HY; Ahmed Q.

Ovarian fibrothecoma: a benign neoplasm with potential adverse consequences. *J Obstet Gynaecol* 2003; Nov;23(6): p677-8. Elghorori MR; Al-Taher H; Redwood NF.

Ovarian thecoma with androgenic manifestations in a postmenopausal woman. *Gynecol Endocrinol* 2006; Jul;22(7): p405-8. Siekierska-Hellmann M; Sworczak K, et al.

Ossifying luteinized thecoma of the ovary. *Arch Gynecol Obstet* 2003; Jan;267(3): p167-9. Morizane M; Ohara N; Mori T; Murao S.

Case No. 2, Accession No. 31391

April 2012

Alameda (Alameda County Medical Center) - Dysgerminoma

Arcadia (ABC Laboratories) - Dysgerminoma

Long Beach (Long Beach Veterans) - Dysgerminoma

Orange (UCI Medical Center Residents) - Dysgerminoma

Orlinda (Kaiser Permanente) - Dysgerminoma

Oxnard (St. John's Regional Medical Center) - Dysgerminoma (2)

San Diego (Naval Medical Center) - Dysgerminoma

Santa Barbara (Miramonte Laboratory) - Dysgerminoma

Woodland Hills (So Cal Permanente Medical Group) - Dysgerminoma

Arkansas (Associated Pathologists Laboratory) - Dysgerminoma

Colorado (McKee Medical Center) - Seminoma (dysgerminoma)

Colorado (University of Colorado) - Dysgerminoma

Georgia, Atlanta - Dysgerminoma

Hawaii (The Queen's Medical Center) - Dysgerminoma

Illinois (Heartland Regional Medical Center) - Dysgerminoma

Illinois (Oak Brook) - Dysgerminoma

Indiana, Fishers - Dysgerminoma

Maryland (University of Maryland) - Dysgerminoma

Massachusetts (Tufts Medical Center) - Dysgerminoma

Massachusetts (Univ of Massachusetts Medical Center) - Dysgerminoma

Minnesota (Fairview Ridges Hospital) - Dysgerminoma

Mississippi (University of Mississippi Medical Center) - Dysgerminoma

Nebraska (Creighton University Medical Center) - Dysgerminoma

New York (Buffalo General Hospital) - Dysgerminoma

New York (SUNY Health Science Center) - Dysgerminoma

Pennsylvania (Conemaugh Memorial Medical Center) - Dysgerminoma

Pennsylvania (Drexel University College of Medicine) - Dysgerminoma

Pennsylvania (Lehigh Valley Hospital) - Dysgerminoma

Pennsylvania (Magee Women's Hospital) - Dysgerminoma with focal syncytial cells

Puerto Rico (University of Puerto Rico) - Dysgerminoma

Texas (Crystal Beach) - Dysgerminoma

Texas, Lubbock - Dysgerminoma

Washington (Seattle, VAMC) - Dysgerminoma

West Virginia (Greenbrier Valley Medical Center) - Dysgerminoma

Wisconsin (Kerry General Hospital) - Dysgerminoma

Wisconsin, Madison - Dysgerminoma

Wisconsin (Medical Assessment and Consultation, S.C.) - Dysgerminoma with syncytiotrophoblastic giant cells

Australia (Royal Hobart Hospital) - Dysgerminoma, ovary

Australia (Royal Prince Alfred Hospital) - Dysgerminoma

Australia (Sullivan Nicolaides Pathology) - Dysgerminoma
Canada (Pasqua Hospital) - Dysgerminoma
Ireland Kerry General Hospital) - Dysgerminoma
Japan (Asahi General Hospital) - Dysgerminoma (2)
Japan (Setagaya-Ku) - Dysgerminoma
Oman (Khoula Hospital) - Dysgerminoma
Saudi Arabia (King Khalid University Hospital) - Dysgerminoma of ovary
Singapore (Freelance/Locum Practice) - Dysgerminoma

Case 2 - Diagnosis:

Dysgerminoma, ovary
 T-87000, M-90603

Case 2 - References:

OCT4: a novel biomarker for dysgerminoma of the ovary. *Am J Surg Pathol* 2004; Oct;28(10): p1341-6. Cheng L; Thomas A, et al.
 Cytokeratin and CD30 expression in dysgerminoma. *Hum Pathol* 2006; Aug;37(8): p1015-21. Cossu-Rocca P; Jones TD, et al.
 Ovarian dysgerminoma associated with Pseudo-Meigs' syndrome and functioning ovarian stroma: a case report. *Gynecol Oncol* 2005; May;97(2): p681-4. Gucer F; Oz-Puyan F, et al.
 Ovarian dysgerminoma associated with fibrosarcoma: a case report. *Int J Gynecol Pathol* 2011; Sep;30(5): p466-9. Alvarado-Cabrero I; Valencia-Cedillo R, et al.
 KIT gene mutation and amplification in dysgerminoma of the ovary. *Cancer* 2011; May 15;117(10): p2096-103. Cheng L; Roth LM, et al.
 Ovarian germ cell tumors in children: a 20-year retrospective study in a single institution. *Eur J Gynaecol Oncol* 2011;32(3): p289-92. Yang C; Wang S, et al.

Case No. 3, Accession No. 29092

April 2012

Alameda (Alameda County Medical Center) - Yolk sac tumor
Arcadia (ABC Laboratories) - Yolk sac tumor (embryonal carcinoma)
Long Beach (Long Beach Veterans) - Yolk sac tumor
Orange (UCI Medical Center Residents) - Yolk sac tumor
Orlinda (Kaiser Permanente) - Mixed germ cell tumor
Oxnard (St. John's Regional Medical Center) - Sertoli-Leydig cell tumor (2)
San Diego (Naval Medical Center) - Yolk sac tumor
Santa Barbara (Miramonte Laboratory) - Yolk sac tumor
Woodland Hills (So Cal Permanente Medical Group) - Yolk sac tumor
Arkansas (Associated Pathologists Laboratory) - Yolk sac tumor
Colorado (McKee Medical Center) - Yolk sac tumor
Colorado (University of Colorado) - Yolk sac tumor
Georgia, Atlanta - Yolk sac tumor
Hawaii (The Queen's Medical Center) - Yolk sac tumor
Illinois (Heartland Regional Medical Center) - Yolk sac tumor
Illinois (Oak Brook) - Yolk sac tumor
Indiana, Fishers - Yolk sac tumor
Maryland (University of Maryland) - Yolk sac tumor
Massachusetts (Tufts Medical Center) - Yolk sac tumor
Massachusetts (Univ of Massachusetts Medical Center) - Yolk sac tumor
Minnesota (Fairview Ridges Hospital) - Yolk sac tumor
Mississippi (University of Mississippi Medical Center) - Yolk sac tumor
Nebraska (Creighton University Medical Center) - Mixed germ cell tumor
New York (Buffalo General Hospital) - Yolk sac tumor
New York (SUNY Health Science Center) - Yolk sac tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Immature teratoma with yolk sac tumor component

Pennsylvania (Drexel University College of Medicine) - Yolk sac tumor
Pennsylvania (Lehigh Valley Hospital) - Yolk sac tumor
Pennsylvania (Magee Women's Hospital) - Yolk sac tumor
Puerto Rico (University of Puerto Rico) - Mixed germ cell tumor/yolk sac/mature component
Texas (Crystal Beach) - Yolk sac tumor
Texas, Lubbock - Teratoma with yolk sac tumor
Washington (Seattle, VAMC) - High grade malignant neoplasm, yolk sac tumor
West Virginia (Greenbrier Valley Medical Center) - Yolk sac tumor
Wisconsin (Kerry General Hospital) - Yolk sac tumor
Wisconsin, Madison - Malignant mixed germ cell tumor
Wisconsin (Medical Assessment and Consultation, S.C.) - Yolk sac tumor
Australia (Royal Hobart Hospital) - Mixed germ cell tumor of ovary with yolk sac and teratomatous elements
Australia (Royal Prince Alfred Hospital) - Yolk sac tumor
Australia (Sullivan Nicolaides Pathology) - Yolk sac tumor
Canada (Pasqua Hospital) - Yolk sac tumor
Ireland Kerry General Hospital - Mixed primitive germ cell tumor including yolk sac elements
Japan (Asahi General Hospital) - Yolk sac tumor (2)
Japan (Setagaya-Ku) - Yolk sac tumor
Oman (Khoula Hospital) - Yolk sac tumor
Saudi Arabia (King Khalid University Hospital) - Yolk sac tumor/endodermal sinus tumor
Singapore (Freelance/Locum Practice) - Yolk sac tumor/hepatoid carcinoma

Case 3 - Diagnosis:

Yolk sac tumor/endodermal sinus tumor, ovary
 T-87000, M-90713

Director's note: Study set slides were generally selected from the yolk sac component of a "Mullerian adenosarcoma of ovary with rhabdomyosarcomatous features and yolk sac tumor" as diagnosed by Robert Young, MD, Mass. General Hospital. (drc)

Case 3 - References:

Yolk sac tumours of the ovary: an update. *Eur J Surg Oncol* 2006; Dec;32(10): p1063-75. Dallenbach P; Bonnefoi H; Pelte MF; Vlastos G.
 Conservative treatment of big yolk sac tumour of the ovary in young girl. *J Visc Surg* 2010 Aug;147(4): pe265-7. Beurdeley M; Gauthier T, et al.
 Ovarian yolk sac tumor associated with major fibrosarcoma component in a 13-year-old girl. *Int J Gynecol Pathol* 2010 May;29(3): p252-5. Ali L; Bambach BJ, et al.
 Ovarian yolk sac tumor associated with endometrioid carcinoma and mucinous cystadenoma of the ovary. *Ann Diagn Pathol* 2003; Oct;7(5): p300-5. Lopez JM; Malpica A; Deavers MT; Ayala AG.
 Yolk sac tumor of the ovary during pregnancy: a case report. *Gynecol Oncol* 2005; Nov;99(2): p497-9. Aoki Y; Higashino M; Ishii S; Tanaka K.
 Yolk sac tumor of childhood: diagnosis on fine needle aspiration biopsy. *Acta Cytol* 2005; Nov-Dec;49(6): p697-8. Afroz N; Khan N; Chana RS.

Case No. 4, Accession No. 31303

April 2012

Alameda (Alameda County Medical Center) - Borderline serous tumor
Arcadia (ABC Laboratories) - Mucinous borderline tumor
Long Beach (Long Beach Veterans) - Serous cystic papillary adenocarcinoma
Orange (UCI Medical Center Residents) - Seromucinous borderline tumor
Orlinda (Kaiser Permanente) - At least borderline mucinous tumor
Oxnard (St. John's Regional Medical Center) - Borderline malignant serous cystadenoma (2)
San Diego (Naval Medical Center) - Borderline serous tumor

Santa Barbara (Miramonte Laboratory) - Borderline serous cystadenoma
Woodland Hills (So Cal Permanente Medical Group) - Borderline serous tumor/atypical proliferative serous tumor
Arkansas (Associated Pathologists Laboratory) - Borderline mucinous cystadenoma
Colorado (McKee Medical Center) - Serous borderline tumor
Colorado (University of Colorado) - Seromucinous (endocervical type) borderline tumor
Georgia, Atlanta - Serous borderline tumor
Hawaii (The Queen's Medical Center) - Seromucinous borderline tumor
Illinois (Heartland Regional Medical Center) - Borderline papillary serous tumor
Illinois (Oak Brook) - Serous papillary tumor of borderline malignant potential
Indiana, Fishers - Serous borderline tumor
Maryland (University of Maryland) - Mucinous cystic neoplasm of borderline mucinous type (borderline mucinous tumor)
Massachusetts (Tufts Medical Center) - Serous borderline cystadenoma
Massachusetts (Univ of Massachusetts Medical Center) - Serous borderline tumor
Minnesota (Fairview Ridges Hospital) - Mucinous borderline tumor, endocervical type
Mississippi (University of Mississippi Medical Center) - Serous borderline tumor
Nebraska (Creighton University Medical Center) - Borderline mucinous tumor
New York (Buffalo General Hospital) - Invasive papillary serous carcinoma
New York (SUNY Health Science Center) - Serous borderline tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Serous borderline tumor
Pennsylvania (Drexel University College of Medicine) - Borderline papillary serous tumor
Pennsylvania (Lehigh Valley Hospital) - Mucinous cystic tumor of borderline malignancy
Puerto Rico (University of Puerto Rico) - Mixed serous and mucinous borderline tumor
Texas (Crystal Beach) - Mucinous papillary tumor, borderline
Texas, Lubbock - Papillary serous neoplasm of low malignant potential
Washington (Seattle, VAMC) - Serous borderline neoplasm
West Virginia (Greenbrier Valley Medical Center) - Serous papillary cystic tumor, borderline
Wisconsin (Kerry General Hospital) - Serous tumor of low malignant potential (borderline tumor)
Wisconsin, Madison - Borderline serous tumor
Wisconsin (Medical Assessment and Consultation, S.C.) - Borderline serous neoplasm tumor of low malignant potential
Australia (Royal Hobart Hospital) - Mucinous borderline tumor of ovary, endocervical type
Australia (Royal Prince Alfred Hospital) - Serous borderline tumor of ovary
Australia (Sullivan Nicolaides Pathology) - Borderline mucinous tumor (endocervical type)
Canada (Pasqua Hospital) - Mucinous borderline tumor
Ireland Kerry General Hospital) - Grade 3 endometrioid adenocarcinoma
Japan (Asahi General Hospital) - Mucinous cystadenoma (1); Serous borderline tumor (1)
Japan (Setagaya-Ku) - Mucinous cystadenocarcinoma
Oman (Khoula Hospital) - Borderline serous cystadenoma
Saudi Arabia (King Khalid University Hospital) - Borderline mucinous tumor of ovary
Singapore (Freelance/Locum Practice) - Mucinous endocervical-like borderline tumor

Case 4 - Diagnosis:

Seromucinous (endocervical type) borderline tumor, ovary
 T-87000, M-84611

Case 4 - References:

Ovarian atypical proliferative (borderline) mucinous tumors: gastrointestinal and seromucinous (endocervical-like) types are immunophenotypically distinctive. *Int J Gynecol Pathol* 2006; Jan;25(1): p83-9. Vang R; Gown AM; Barry TS; Wheeler DT; Ronnett BM.
 Endocervical-like mucinous borderline tumors of the ovary: clinicopathological features and electron microscopic findings. *Med Electron Microsc* 2003; Dec;36(4): p240-6. Moriya T; Mikami Y, et al.
 Diagnostic criteria and behavior of ovarian seromucinous (endocervical-type mucinous and mixed cell-type) tumors: atypical proliferative (borderline) tumors, intraepithelial, microinvasive, and invasive carcinomas. *Am J Surg Pathol* 2002; Dec;26(12): p1529-41. Shappell HW; Riopel MA, et al.
 Clinical characteristics and prognosis of mucinous tumors of the ovary. *Gynecol Oncol* 2006; Oct;103(1): p171-5. Kikkawa F; Nawa A, et al.

The relationship between papillary infarction and microinvasion in ovarian atypical proliferative ("borderline") serous and seromucinous tumors. *Int J Gynecol Pathol* 2010; Jul;29(4): p303-9.Kraus JA; Seidman JD.
 Histologic subtypes of ovarian carcinoma: an overview. *Int J Gynecol Pathol* 2008; Apr;27(2): p161-74.Soslow RA.

Case No. 5, Accession No. 31349

April 2012

Alameda (Alameda County Medical Center) - Carcinosarcoma
Arcadia (ABC Laboratories) - High grade papillary serous carcinoma
Long Beach (Long Beach Veterans) - Carcinosarcoma
Orange (UCI Medical Center Residents) - Carcinosarcoma
Orlinda (Kaiser Permanente) - Serous carcinoma
Oxnard (St. John's Regional Medical Center) - Papillary serous cystadenocarcinoma (2)
San Diego (Naval Medical Center) - High grade endometrioid adenocarcinoma
Santa Barbara (Miramonte Laboratory) - Papillary serous cystadenocarcinoma
Woodland Hills (So Cal Permanente Medical Group) - Carcinosarcoma/malignant Mullerian mixed tumor
Arkansas (Associated Pathologists Laboratory) - Endometrioid cystadenocarcinoma
Colorado (McKee Medical Center) - Malignant mixed Mullerian tumor
Colorado (University of Colorado) - Carcinosarcoma (MMMT)
Georgia, Atlanta - High grade serous carcinoma
Hawaii (The Queen's Medical Center) - High grade serous carcinoma
Illinois (Heartland Regional Medical Center) - Endometrioid adenocarcinoma, grade 2
Illinois (Oak Brook) - Adenocarcinoma, endometrioid
Indiana, Fishers - Endometrioid adenocarcinoma
Maryland (University of Maryland) - Carcinosarcoma
Massachusetts (Tufts Medical Center) - High grade endometrioid carcinoma
Massachusetts (Univ of Massachusetts Medical Center) - Serous carcinoma with undifferentiated sarcomatous component
Minnesota (Fairview Ridges Hospital) - High grade serous carcinoma (malignant mesodermal mixed tumor)
Mississippi (University of Mississippi Medical Center) - MMMT
Nebraska (Creighton University Medical Center) - High grade serous carcinoma
New York (Buffalo General Hospital) - Invasive endometrioid carcinoma
New York (SUNY Health Science Center) - Carcinosarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Poorly differentiated endometrioid adenocarcinoma
Pennsylvania (Drexel University College of Medicine) - Malignant mixed Mullerian tumors (MMMT)
Pennsylvania (Lehigh Valley Hospital) - Malignant mixed Mullerian tumor
Pennsylvania (Magee Women's Hospital) - Carcinosarcoma
Puerto Rico (University of Puerto Rico) - Endometrioid adenocarcinoma, grade 3
Texas (Crystal Beach) - Endometrioid carcinoma, ovary
Texas, Lubbock - Papillary serous carcinoma
Washington (Seattle, VAMC) - High grade carcinoma, carcinosarcoma
West Virginia (Greenbrier Valley Medical Center) - Endometrioid carcinoma
Wisconsin (Kerry General Hospital) - High grade adenocarcinoma, favor endometrioid
Wisconsin, Madison - Ovarian endometrioid adenocarcinoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Ovarian malignant mesodermal mixed tumor (carcinosarcoma)
Australia (Royal Hobart Hospital) - Carcinosarcoma (MMMT)
Australia (Royal Prince Alfred Hospital) - Carcinosarcoma (MMMT)
Australia (Sullivan Nicolaides Pathology) - Carcinosarcoma
Canada (Pasqua Hospital) - High grade endometrioid carcinoma arising in endometriosis
Ireland Kerry General Hospital) - Serous papillary carcinoma
Japan (Asahi General Hospital) - Endometrioid adenocarcinoma (2)
Japan (Setagaya-Ku) - Endometrioid adenocarcinoma
Oman (Khoula Hospital) - Endometrioid carcinoma, ovary
Saudi Arabia (King Khalid University Hospital) - Ovarian endometrioid carcinoma
Singapore (Freelance/Locum Practice) - Carcinosarcoma

Case 5 - Diagnosis:

High grade papillary serous cystadenocarcinoma and carcinosarcoma, ovary
T-82000, M-84603

Case 5 - References:

The origin and pathogenesis of epithelial ovarian cancer: a proposed unifying theory. *Am J Surg Pathol* 2010; Mar;34(3): p433-43. Kurman RJ; Shih Ie M
A case of bilateral ovarian synchronous tumors (left ovarian serous papillary adenocarcinoma and right ovarian malignant mixed Mullerian tumor). *Eur J Gynaecol Oncol* 2011;;32(2): p234-6. Song MJ; Lee CW, et al.
Peritoneal implantations of papillary serous ovarian cystadenocarcinoma 13 days after initial laparoscopic treatment for a presumed benign ovarian cyst. *Eur J Gynaecol Oncol* 2000;30(1): p103-5. Papoutsis D; Rodolakis A, et al.
The pattern of CD98 expression is different between uterine serous papillary carcinoma and endometrioid endometrial carcinoma. *Gynecol Oncol* 2007; Jan;104(1): p264-5. Monaghan H; Williams AR.
Carcinosarcoma of the ovary. *Int J Gynecol Cancer* 2008; Jan-Feb;18(1): p22-9. Silasi DA; Illuzzi JL, et al.

Case No. 6, Accession No. 31271

April 2012

Alameda (Alameda County Medical Center) - Serous papillary carcinoma
Arcadia (ABC Laboratories) - High grade serous papillary carcinoma
Long Beach (Long Beach Veterans) - Micropapillary adenocarcinoma
Orange (UCI Medical Center Residents) - Invasive serous carcinoma
Orlinda (Kaiser Permanente) - Serous carcinoma
Oxnard (St. John's Regional Medical Center) - Papillary serous cystadenocarcinoma (2)
San Diego (Naval Medical Center) - Invasive serous adenocarcinoma
Santa Barbara (Miramonte Laboratory) - Papillary serous adenocarcinoma
Woodland Hills (So Cal Permanente Medical Group) - High grade serous carcinoma
Arkansas (Associated Pathologists Laboratory) - Papillary serous cystadenocarcinoma
Colorado (McKee Medical Center) - Serous papillary carcinoma
Colorado (University of Colorado) - Serous carcinoma, high grade
Georgia, Atlanta - Low grade serous carcinoma/invasive implant
Hawaii (The Queen's Medical Center) - High grade serous carcinoma
Illinois (Heartland Regional Medical Center) - Serous papillary carcinoma, grade 2
Illinois (Oak Brook) - Serous papillary carcinoma
Indiana, Fishers - Serous adenocarcinoma
Maryland (University of Maryland) - High grade serous carcinoma
Massachusetts (Tufts Medical Center) - Metastatic serous adenocarcinoma consistent with micropapillary features
Massachusetts (Univ of Massachusetts Medical Center) - Serous papillary adenocarcinoma
Minnesota (Fairview Ridges Hospital) - Low grade papillary serous carcinoma
Mississippi (University of Mississippi Medical Center) - Serous carcinoma, high grade
Nebraska (Creighton University Medical Center) - Papillary serous carcinoma
New York (Buffalo General Hospital) - Invasive papillary serous carcinoma
New York (SUNY Health Science Center) - High grade serous carcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Serous papillary carcinoma
Pennsylvania (Drexel University College of Medicine) - Papillary serous carcinoma
Pennsylvania (Lehigh Valley Hospital) - Serous papillary carcinoma
Pennsylvania (Magee Women's Hospital) - High grade serous carcinoma
Puerto Rico (University of Puerto Rico) - Metastatic serous adenocarcinoma
Texas (Crystal Beach) - Papillary adenocarcinoma
Texas, Lubbock - Papillary serous carcinoma
Washington (Seattle, VAMC) - Serous adenocarcinoma
West Virginia (Greenbrier Valley Medical Center) - Adenocarcinoma serous papillary
Wisconsin (Kerry General Hospital) - Pelvic high grade serous carcinoma
Wisconsin, Madison - Ovarian papillary serous adenocarcinoma

Wisconsin (Medical Assessment and Consultation, S.C.) - Serous cystadenocarcinoma
Australia (Royal Hobart Hospital) - Serous carcinoma, high grade
Australia (Royal Prince Alfred Hospital) - Low grade serous carcinoma
Australia (Sullivan Nicolaides Pathology) - High grade serous carcinoma
Canada (Pasqua Hospital) - High grade serous carcinoma
Ireland Kerry General Hospital) - Grade 3, endometrioid adenocarcinoma with giant cells
Japan (Asahi General Hospital) - Serous adenocarcinoma (1); Epithelial malignant mesothelioma (1)
Japan (Setagaya-Ku) - Mucinous adenocarcinoma
Oman (Khoula Hospital) - Serous cystadenocarcinoma with invasive peritoneal implants
Saudi Arabia (King Khalid University Hospital) - Invasive omental deposits from a serous carcinoma
Singapore (Freelance/Locum Practice) - Serous adenocarcinoma, high grade

Case 6 - Diagnosis:

Metastatic papillary serous carcinoma, omentum
 T-63850, M-84603

Case 6 - References:

Low-grade serous carcinoma of the ovary metastatic to the anterior mediastinum simulating multilocular thymic cysts: a clinicopathologic and immunohistochemical study of 3 cases. *Am J Surg Pathol* 2005; Apr;29(4): p496-9. Moran CA; Suster S; Silva EG.
 Serous papillary peritoneal carcinoma: unknown primary tumour, ovarian cancer counterpart or a distinct entity? A systematic review. *Crit Rev Oncol Hematol* 2010; Jul;75(1): p27-42. Pentheroudakis G; Pavlidis N.
 Rare form of extraovarian peritoneal serous papillary carcinoma with solitary tumor in the abdominal wall: a case report and literature review. *J Obstet Gynaecol Res* 2009; Dec;35(6): p1142-7. Matsuura T; Sugihara K, et al.
 hI-con1, a factor VII-IgGFc chimeric protein targeting tissue factor for immunotherapy of uterine serous papillary carcinoma. *Br J Cancer* 2010; Sep 7;103(6): p812-9. Cocco E; Hu Z, et al.
 Expression of pax8 as a useful marker in distinguishing ovarian carcinomas from mammary carcinomas. *Am J Surg Pathol* 2008; Oct;32(10): p1566-71. Nonaka D; Chiriboga L; Soslow RA.
 Papillary serous carcinoma of the peritoneum with paraaortic lymph node metastasis despite minimal intraperitoneal involvement: a case report. *Acta Cytol* 2006; May-Jun;50(3): p323-6. Komiyama S; Asai S, et al.

Case No. 7, Accession No. 31330

April 2012

Alameda (Alameda County Medical Center) - Adenocarcinoma, endometrioid type with giant cell features
Arcadia (ABC Laboratories) - High grade papillary adenocarcinoma
Long Beach (Long Beach Veterans) - Invasive poorly differentiated adenocarcinoma
Orange (UCI Medical Center Residents) - Anaplastic carcinoma arising from endometrioid carcinoma
Orlinda (Kaiser Permanente) - Invasive high grade endometrial carcinoma with serous features
Oxnard (St. John's Regional Medical Center) - Adenosquamous carcinoma (2)
San Diego (Naval Medical Center) - Giant cell adenocarcinoma
Santa Barbara (Miramonte Laboratory) - Giant cell carcinoma
Woodland Hills (So Cal Permanente Medical Group) - Serous carcinoma
Arkansas (Associated Pathologists Laboratory) - Serous endometrial carcinoma
Colorado (McKee Medical Center) - Endometrioid adenosarcoma
Colorado (University of Colorado) - Undifferentiated carcinoma
Georgia, Atlanta - High grade endometrioid carcinoma
Hawaii (The Queen's Medical Center) - Grade 3, endometrioid adenocarcinoma
Illinois (Heartland Regional Medical Center) - Uterine papillary serous carcinoma, high grade, consistent with giant cells
Illinois (Oak Brook) - Adenocarcinoma with giant cell differentiation
Indiana, Fishers - High grade carcinoma, favor serous carcinoma
Maryland (University of Maryland) - Endometrial carcinoma, mixed type (endometrioid and serous)
Massachusetts (Tufts Medical Center) - High grade serous adenocarcinoma
Massachusetts (Univ of Massachusetts Medical Center) - Mixed carcinoma with endometrioid and giant cell components

Minnesota (Fairview Ridges Hospital) - High grade carcinoma, endometrioid/serous
Mississippi (University of Mississippi Medical Center) - Serous carcinoma, radiation or anaplasia
Nebraska (Creighton University Medical Center) - Endometrioid carcinoma with giant cells
New York (Buffalo General Hospital) - Endometrioid carcinoma, FIGO 3
New York (SUNY Health Science Center) - High grade carcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Giant cell carcinoma
Pennsylvania (Drexel University College of Medicine) - Endometrioid adenocarcinoma
Pennsylvania (Lehigh Valley Hospital) - Serous papillary carcinoma
Pennsylvania (Magee Women's Hospital) - High grade adenocarcinoma
Puerto Rico (University of Puerto Rico) - Endometrioid carcinoma, grade 3/giant cell carcinoma
Texas (Crystal Beach) - Papillary endometrial adenocarcinoma, anaplastic
Texas, Lubbock - Papillary serous carcinoma
Washington (Seattle, VAMC) - High grade carcinoma consistent with mixed growth pattern
West Virginia (Greenbrier Valley Medical Center) - Serous carcinoma
Wisconsin (Kerry General Hospital) - High grade serous carcinoma
Wisconsin, Madison - Uterine endometrioid adenocarcinoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Endometrial adenocarcinoma, endometrioid type with trophoblast-like cells
Australia (Royal Hobart Hospital) - High grade endometrioid adenocarcinoma with component of giant cell carcinoma
Australia (Royal Prince Alfred Hospital) - Favor primary uterine high grade endometrioid carcinoma over metastatic colorectal carcinoma
Australia (Sullivan Nicolaides Pathology) - Poorly differentiated endometrial adenocarcinoma, giant cell type
Canada (Pasqua Hospital) - Endometrioid carcinoma
Ireland Kerry General Hospital) - Juvenile granulosa cell tumor
Japan (Asahi General Hospital) - Placental site trophoblastic tumor (1); Adenosquamous carcinoma (1)
Japan (Setagaya-Ku) - Mucinous adenocarcinoma
Oman (Khoulia Hospital) - Endometrioid adenocarcinoma with bizarre cells
Saudi Arabia (King Khalid University Hospital) - Endometrioid endometrial carcinoma, poorly differentiated
Singapore (Freelance/Locum Practice) - Endometrioid adenocarcinoma, high grade

Case 7 - Diagnosis:

Poorly differentiated endometrioid adenocarcinoma with trophoblast-like giant cells, uterus
 T-82000, M-83803

Case 7 - References:

Endometrioid carcinoma of the endometrium with choriocarcinomatous differentiation: a case report and review of the literature. *Arch Gynecol Obstet* 2008; Jul;278(1): p79-84. Akbulut M; Tosun H; Soysal ME; Oztekin O.
 Endometrial giant cell carcinoma: a case series and review of the spectrum of endometrial neoplasms containing giant cells. *Am J Surg Pathol* 2010; Aug;34(8): p1132-8. Mulligan AM; Plotkin A, et al.
 Endometrial adenosquamous carcinoma with osteoclast-like giant cells: immunohistochemistry and histogenesis. *APMIS* 2005; Feb;113(2): p140-4. Imura J; Tomita S, et al.
 Giant cell carcinoma of the uterine cervix: a case report. *Int J Gynecol Pathol* 2006; Jul;25(3): p298-300. Kurita T; Kashimura M; Hamada T; Hisaoka M.
 Synchronization of intracellular proliferation and apoptosis in multinucleated giant cell carcinoma of the cervix. A case report. *Acta Cytol* 2007; Jan-Feb;51(1): p73-9. Boon ME; Siemens FC.

Case No. 8, Accession No. 31358

April 2012

Alameda (Alameda County Medical Center) - Sclerosing stromal tumor
Arcadia (ABC Laboratories) - Sex cord stromal tumor, granulosa cell-like
Long Beach (Long Beach Veterans) - Sclerosing stromal tumor
Orange (UCI Medical Center Residents) - Favor sclerosing stromal tumor
Orlinda (Kaiser Permanente) - Sex cord stroma tumor with signet cell features
Oxnard (St. John's Regional Medical Center) - Sclerosing stromal tumor (2)
San Diego (Naval Medical Center) - Sclerosing stromal tumor

Santa Barbara (Miramonte Laboratory) - Sclerosing stromal tumor
Woodland Hills (So Cal Permanente Medical Group) - Sclerosing stromal tumor
Arkansas (Associated Pathologists Laboratory) - Sex cord-stromal tumor, unclassified
Colorado (McKee Medical Center) - Juvenile granulosa cell tumor
Colorado (University of Colorado) - Sclerosing stromal tumor
Georgia, Atlanta - Sertoli-Leydig cell tumor
Hawaii (The Queen's Medical Center) - Sclerosing stromal tumor
Illinois (Heartland Regional Medical Center) - Juvenile granulosa cell tumor
Illinois (Oak Brook) - Sclerosing stromal tumor
Indiana, Fishers - Sclerosing stromal tumor
Maryland (University of Maryland) - Sclerosing stromal tumor
Massachusetts (Tufts Medical Center) - Sertoli cell tumor
Massachusetts (Univ of Massachusetts Medical Center) - Steroid cell tumor, NOS
Minnesota (Fairview Ridges Hospital) - Signet ring stromal tumor
Mississippi (University of Mississippi Medical Center) - Sclerosing stromal tumor
Nebraska (Creighton University Medical Center) - Sclerosing stromal tumor
New York (Buffalo General Hospital) - Poorly differentiated Sertoli-Leydig cell tumor
New York (SUNY Health Science Center) - Sclerosing stromal tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Sertoli-Leydig tumor
Pennsylvania (Drexel University College of Medicine) - Thecoma
Pennsylvania (Lehigh Valley Hospital) - Sertoli cell tumor
Pennsylvania (Magee Women's Hospital) - Sclerosing stromal tumor
Puerto Rico (University of Puerto Rico) - Sclerosing stromal tumor/Sertoli cell tumor
Texas (Crystal Beach) - Sertoli-Leydig stromal tumor
Texas, Lubbock - Leydig cell tumor
Washington (Seattle, VAMC) - Sclerosing stromal tumor
West Virginia (Greenbrier Valley Medical Center) - Sclerosing stromal tumor
Wisconsin (Kerry General Hospital) - Sclerosing stromal tumor and Sertoli-Leydig cell tumor
Wisconsin, Madison - Sclerosing stromal tumor
Wisconsin (Medical Assessment and Consultation, S.C.) - Sclerosing stromal tumor
Australia (Royal Hobart Hospital) - Sclerosing stromal tumor of ovary
Australia (Royal Prince Alfred Hospital) - Sclerosing stromal tumor
Australia (Sullivan Nicolaides Pathology) - Sclerosing stromal tumor
Canada (Pasqua Hospital) - Juvenile granulosa cell tumor
Ireland Kerry General Hospital) - Granulosa cell tumor
Japan (Asahi General Hospital) - Juvenile granulosa cell tumor (1); Steroid cell tumor, NOS (1)
Japan (Setagaya-Ku) - Thecoma
Oman (Khoulia Hospital) - Luteinized thecoma
Saudi Arabia (King Khalid University Hospital) - Sertoli Leydig cell tumor
Singapore (Freelance/Locum Practice) - Sex cord stromal tumor, sertoli cell tumor

Case 8 - Diagnosis:

Sclerosing stromal tumor, ovary
 T-87000, M-85901

Director's note: This case has also been called a "juvenile granulosa cell tumor" by a pediatric pathologist.
 (drc)

Case 8 - References:

The morphologic and immunohistochemical spectrum of 16 cases of sclerosing stromal tumor of the ovary. *Indian J Pathol Microbiol* 2010; Oct-Dec;53(4): p658-60. Qureshi A; Raza A; Kayani N.
 Sclerosing stromal tumor: an important differential diagnosis of ovarian neoplasms in childhood and adolescence. *Pediatr Dev Pathol* 2009; Sep-Oct;12(5): p366-70. Gwin K; Marino-Enriquez A; Martel M; Reyes-Mugica M.
 Study of an ovarian sclerosing stromal tumor presenting as vaginal bleeding in a 7-month-old. *Pediatr Dev Pathol* 2008; Jul-Aug;11(4): p300-4. Hall OR; Pascasio JM, et al.
 Sclerosing stromal tumor of the ovary. *Arch Iran Med* 2008; Sep;11(5): p561-2. Iravanloo G; Nozarian Z, et al.

Sclerosing stromal tumor: unusual histologic features of a rare ovarian tumor. *Indian J Pathol Microbiol* 2008; Jul-Sep;51(3): p445-7. Arora R; Gupta R; Dinda AK.

Case No. 9, Accession No. 31402

April 2012

Alameda (Alameda County Medical Center) - Granulosa cell tumor
Arcadia (ABC Laboratories) - Granulosa cell carcinoma
Long Beach (Long Beach Veterans) - Granulosa cell tumor
Orange (UCI Medical Center Residents) - Granulosa cell tumor
Orlinda (Kaiser Permanente) - Granulosa cell tumor
Oxnard (St. John's Regional Medical Center) - Granulosa cell tumor (2)
San Diego (Naval Medical Center) - Adult granulosa cell tumor
Santa Barbara (Miramonte Laboratory) - Granulosa cell tumor
Woodland Hills (So Cal Permanente Medical Group) - Granulosa cell tumor
Arkansas (Associated Pathologists Laboratory) - Granulosa cell tumor
Colorado (McKee Medical Center) - Granulosa cell tumor
Colorado (University of Colorado) - Adult granulosa cell tumor
Georgia, Atlanta - Adult granulosa cell tumor
Hawaii (The Queen's Medical Center) - Adult granulosa cell tumor
Illinois (Heartland Regional Medical Center) - Adult granulosa cell tumor
Illinois (Oak Brook) - Adult granulosa cell tumor
Indiana, Fishers - Granulosa cell tumor
Maryland (University of Maryland) - Granulosa cell tumor
Massachusetts (Tufts Medical Center) - Granulosa cell tumor
Massachusetts (Univ of Massachusetts Medical Center) - Granulosa cell tumor
Minnesota (Fairview Ridges Hospital) - Adult granulosa cell tumor
Mississippi (University of Mississippi Medical Center) - SCTAT
Nebraska (Creighton University Medical Center) - Granuloma cell tumor
New York (Buffalo General Hospital) - Adult granulosa cell tumor
New York (SUNY Health Science Center) - Adult granulosa cell tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Adult granulosa cell tumor
Pennsylvania (Drexel University College of Medicine) - Granulosa cell tumor
Pennsylvania (Lehigh Valley Hospital) - Adult granulosa cell tumor
Pennsylvania (Magee Women's Hospital) - Adult granulosa cell tumor
Puerto Rico (University of Puerto Rico) - Granulosa cell tumor, adult type
Texas (Crystal Beach) - Granulosa cell tumor
Texas, Lubbock - Sertoli cell tumor
Washington (Seattle, VAMC) - Sex cord stromal tumor, granulosa cell type
West Virginia (Greenbrier Valley Medical Center) - Granulosa cell tumor
Wisconsin (Kerry General Hospital) - Adult granulosa cell tumor
Wisconsin, Madison - Adult granulosa cell tumor
Wisconsin (Medical Assessment and Consultation, S.C.) - Adult granulosa cell tumor
Australia (Royal Hobart Hospital) - Adult granulosa cell tumor
Australia (Royal Prince Alfred Hospital) - Granulosa cell tumor
Australia (Sullivan Nicolaides Pathology) - Adult granulosa cell tumor
Canada (Pasqua Hospital) - Granulosa cell tumor
Ireland Kerry General Hospital - Granulosa cell tumor
Japan (Asahi General Hospital) - Granulosa cell tumor (2)
Japan (Setagaya-Ku) - Granulosa cell tumor
Oman (Khoula Hospital) - Granulosa cell tumor
Saudi Arabia (King Khalid University Hospital) - Adult granulosa cell tumor
Singapore (Freelance/Locum Practice) - Adult type granulosa cell tumor

Case 9 - Diagnosis:

Adult granulosa cell tumor, ovary

Case 9 - References:

Luteinized adult granulosa cell tumor--a series of 9 cases: revisiting a rare variant of adult granulosa cell tumor. *Int J Gynecol Pathol* 2011; Sep;30(5): p452-9. Ganesan R; Hirschowitz L, et al.
Clinical and pathological predictive factors in women with adult-type granulosa cell tumor of the ovary. *Int J Gynecol Pathol* 2007; Apr;26(2): p154-9. Villella J; Herrmann FR, 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.
Fine needle aspiration of metastatic adult granulosa cell tumor of the ovary: a case report. *Acta Cytol* 2010; Sep-Oct;54(5 Suppl): p933-8. Balachandran I; Ju J; Walker J; Broman J.
Adult granulosa cell tumors of the ovary: tumor dissemination pattern at primary and recurrent situation, surgical outcome. *Gynecol Oncol* 2010; Nov;119(2): p285-9. Fotopoulou C; Savvatis K, et al.

Case No. 10, Accession No. 31189

April 2012

Alameda (Alameda County Medical Center) - Carcinosarcoma
Arcadia (ABC Laboratories) - Carcinosarcoma, high grade
Long Beach (Long Beach Veterans) - Malignant mixed Mullerian tumor
Orange (UCI Medical Center Residents) - Carcinosarcoma
Orlinda (Kaiser Permanente) - Malignant mixed Mullerian tumor
Oxnard (St. John's Regional Medical Center) - Carcinosarcoma (2)
San Diego (Naval Medical Center) - Carcinosarcoma
Santa Barbara (Miramonte Laboratory) - Squamous carcinoma
Woodland Hills (So Cal Permanente Medical Group) - Carcinosarcoma/malignant Mullerian mixed tumor
Arkansas (Associated Pathologists Laboratory) - Mucinous adenosquamous endometrial carcinoma
Colorado (McKee Medical Center) - Malignant mixed Mullerian tumor
Colorado (University of Colorado) - Carcinosarcoma (MMMT)
Georgia, Atlanta - Malignant mixed Mullerian tumor
Hawaii (The Queen's Medical Center) - Carcinosarcoma
Illinois (Heartland Regional Medical Center) - Carcinosarcoma (malignant mixed Mullerian tumor)
Illinois (Oak Brook) - Carcinosarcoma
Indiana, Fishers - Malignant mixed Mullerian tumor
Maryland (University of Maryland) - Carcinosarcoma (90% sarcoma, 10% endometrioid)
Massachusetts (Tufts Medical Center) - Carcinosarcoma
Massachusetts (Univ of Massachusetts Medical Center) - Malignant mixed Mullerian tumor
Minnesota (Fairview Ridges Hospital) - Malignant mesodermal mixed tumor with heterologous component
Mississippi (University of Mississippi Medical Center) - Malignant mixed Mullerian tumor
Nebraska (Creighton University Medical Center) - Carcinosarcoma
New York (Buffalo General Hospital) - Malignant mixed Mullerian tumor
New York (SUNY Health Science Center) - Carcinosarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Malignant mixed Mullerian tumor
Pennsylvania (Drexel University College of Medicine) - Malignant mixed Mullerian tumors (MMMT)
Pennsylvania (Lehigh Valley Hospital) - Malignant mixed Mullerian tumor
Pennsylvania (Magee Women's Hospital) - Carcinosarcoma
Puerto Rico (University of Puerto Rico) - Carcinosarcoma
Texas (Crystal Beach) - Mixed mesodermal tumor
Texas, Lubbock - Malignant mixed Mullerian tumor
Washington (Seattle, VAMC) - Malignant mixed Mullerian tumor
West Virginia (Greenbrier Valley Medical Center) - Carcinosarcoma
Wisconsin (Kerry General Hospital) - Carcinosarcoma
Wisconsin, Madison - Carcinosarcoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Carcinosarcoma (malignant mixed Mullerian tumor), uterine
Australia (Royal Hobart Hospital) - Carcinosarcoma (MMMT)

Australia (Royal Prince Alfred Hospital) - Carcinosarcoma (MMMT)
Australia (Sullivan Nicolaides Pathology) - Carcinosarcoma (MMMT)
Canada (Pasqua Hospital) - Malignant mixed Mullerian tumor
Ireland Kerry General Hospital) - Malignant mixed Mullerian tumor
Japan (Asahi General Hospital) - Carcinosarcoma (2)
Japan (Setagaya-Ku) - Squamous cell carcinoma
Oman (Khoula Hospital) - Malignant Mullerian mixed tumor (carcinosarcoma)
Saudi Arabia (King Khalid University Hospital) - Malignant mixed Mullerian tumor (triple MT/carcinosarcoma)
Singapore (Freelance/Locum Practice) - Carcinosarcoma (MMMT)

Case 10 - Diagnosis:

Carcinosarcoma/malignant Mullerian mixed tumor (MMMT), uterus
 T-82000, M-89503

Case 10 - References:

Determining predominating histologic component in malignant mixed mullerian tumors: is it worth it? *Int J Gynecol Cancer* 2008; Jul-Aug;18(4): p809-12. Ozguroglu M; Bilici A, et al.
 Uterine sarcomas: a review. *Gynecol Oncol* 2010; Jan;116(1): p131-9. D'Angelo E; Prat J.
 Malignant mixed mullerian tumor of primary peritoneal origin. *Ann Diagn Pathol* 2011; Aug;15(4): p273-7. Kanis M; Kesterson JP, et al.
 WT1 immunoprofiling and comparison of malignant Mullerian mixed tumors of the female genital tract. *Int J Gynecol Pathol* 2010; Sep;29(5): p452-8. Franko A; Magliocco AM; Duan Q; Duggan MA.
 Metastases to soft tissue: a review of 118 cases over a 30-year period. *Cancer* 2008; Jan 1;112(1): p193-203. Plaza JA; Perez-Montiel D; Suster S.