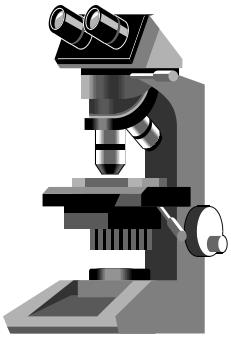
CALIFORNIA
TUMOR TISSUE REGISTRY

GYNECOLOGICAL PATHOLOGY
TUMORS OF THE OVARY

Minutes – Subscription B

March 2015



SUGGESTED READING (General Topics from Recent Literature):

Hammer STG and Appelman HD. Sporadic Lymphoplasmacytic Cholecystitis: A Clinicopathologic Entity. *Am J Clin Pathol* 2014; 142: 209-212.

van Eggermond AM, Schaapveld M, et al. Risk of Multiple Primary Malignancies Following Treatment of Hodgkin Lymphoma. *Blood* 2014; 124:319-327.

Tidwell WJ and Googe PB. Tissue Histocyte Reactivity With CD31 Is Comparable to CD68 and CD163 in Common Skin Lesions. *J Cutan Pathol* 2014; 41:489-493.

Warth A, Muley T, et al. ROSI Expression and Translocations in Non-Small-Cell Lung Cancer: Clinicopathological Analysis of 1478 Cases. *Histopathol* 2014; 65:187-194.

Shi Y and Wang E. Blastic Plasmacytoid Dendritic Cell Neoplasm: A Clinicopathologic Review. *Arch Pathol Lab Med* 2014; 138: 564-569.

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FILE DIAGNOSES

CTTR Subscription B March 2015

Case 1:
Sclerosing stromal tumor, ovary

Case 2:
Fibroma, ovary

Case 3:
Fibrothecoma, ovary

Case 4:
Mucinous cystadenoma, intestinal type, ovary

Case 5:
Serous cystadenofibroma, ovary

Case 6:
Serous borderline tumor, ovary

Case 7:
Adult granulosa cell tumor, adnexa

Case 8:
Mature cystic teratoma, ovary

Case 9:
Mixed malignant germ cell tumor with embryonal carcinoma, dysgerminoma and yolk sac tumor, ovary

Case 10:
Carcinosarcoma (MMMT), uterus

Case No. 1, Accession No. 32119 March 2015

Glendale - Sclerosing stromal tumor
San Francisco (UCSF) - Sclerosing stromal tumor
Torrance (Harbor-UCLA Medical Center) - Adenomatoid tumor
Alabama (Cunningham Pathology) - Clear cell neoplasm, borderline
Connecticut (Danbury Hospital) - Sclerosing stromal tumor
Delaware (Armed Forces Medical Examiner System) - Luteinized fibroma
Georgia, Atlanta - Thecoma
Illinois (Heartland Regional Medical Center) - Sclerosing stromal tumor
Kansas (Peterson Laboratory Services, P.A.) - Sclerosing stromal tumor
Maryland (University of Maryland) - Sclerosing stromal tumor
New York (SUNY Downstate Medical Center) - Sclerosing stromal tumor
New York (University of Buffalo Residents) - Sclerosing stromal tumor
New York (University of Rochester Medical Center) - Sclerosing stromal tumor, consider leutinized thecoma
Mississippi (University of Mississippi Medical Center) - Fibrothecoma
Ohio (The University of Toledo Medical Center) - Fibrothecoma
Pennsylvania (Drexel University College of Medicine Residents) - Sclerosing stromal tumor
Puerto Rico (Associated Pathologists Laboratory) - Sclerosing stromal tumor, rule out luteinized thecoma
Tennessee, Knoxville - Sclerosing stromal tumor
Texas, Crystal Beach - Fibroma with steroid cell features
Texas, Lubbock - Steroid tumor, nos
Australia (Royal Prince Alfred Hospital) - Sclerosing stromal tumor
Australia (St. Vincent's Hospital) - Sclerosing stromal tumor
Canada (Pasqua Hospital) - Sclerosing stromal tumor
Canada (Royal Alexandra Hospital) - Sclerosing stromal tumor
Ireland (Connelly Hospital) - Thecoma/fibroma
Japan (Asahi General Hospital) - Steroid cell tumor
Japan (Lions Mansion Nijyo-Ekimae) - Sclerosing stromal tumor
Japan (Setagaya-Ku) - Thecofibroma

Case 1 - Diagnosis:

Sclerosing stromal tumor, ovary

Case 1 - References:

Ovarian sclerosing stromal tumor in a young woman with ectopic pregnancy: clinical, pathological, and immunohistochemical studies. *Int J Clin Exp Pathol* 2014;7(1): p456-9. Liang YF; Zeng JC, et al.

Sclerosing stromal tumour of the ovary: two case reports. *Pathologica* 2013; Apr;105(2): p62-5. Limaiem F; Boudabous E, et al.

Signet ring stromal cell tumor revisited and related signet ring cell lesions of the ovary. *Hum Pathol* 2014; Mar;45(3): p636-42. Roth LM.

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 of the ovary in a 4-year-old girl with characteristics of an ovarian signet-ring stromal tumor. *Pathol Res Pract* 2010; May 15;206(5): p338-41. He Y; Yang KX.

Sclerosing stromal tumour of the ovary--a clinicopathologic spectrum. *Indian J Pathol Microbiol* 2005; Jul;48(3): p370-2. Pai RR; Shaktawat SS, et al.

Case No. 2, Accession No. 31713 March 2015

Glendale - Ovarian fibroma
San Francisco (UCSF) - Fibroma
Torrance (Harbor-UCLA Medical Center) - Thecoma of ovary (fibrothecoma)
Alabama (Cunningham Pathology) - Fibroma
Connecticut (Danbury Hospital) - Fibroma/fibrothecoma

Delaware (Armed Forces Medical Examiner System) - Ovarian fibroma
Georgia, Atlanta - Fibroma
Illinois (Heartland Regional Medical Center) - Fibroma
Kansas (Peterson Laboratory Services, P.A.) - Fibroma
Maryland (University of Maryland) - Fibroma
New York (SUNY Downstate Medical Center) - Fibroma
New York (University of Buffalo Residents) - Fibroma
New York (University of Rochester Medical Center) - Leiomyoma, consider fibroma
Mississippi (University of Mississippi Medical Center) - Fibroma
Ohio (The University of Toledo Medical Center) - Fibroma
Pennsylvania (Drexel University College of Medicine Residents) - Fibroma
Puerto Rico (Associated Pathologists Laboratory) - Fibrothecoma
Tennessee, Knoxville - Fibroma
Texas, Crystal Beach - Thecoma
Texas, Lubbock - Thecoma
Australia (Royal Prince Alfred Hospital) - Fibroma
Australia (St. Vincent's Hospital) - Fibroma
Canada (Pasqua Hospital) - Fibroma
Canada (Royal Alexandra Hospital) - Fibroma
Ireland (Connelly Hospital) - Fibroma
Japan (Asahi General Hospital) - Fibroma
Japan (Lions Mansion Nijyo-Ekimae) - Fibroma
Japan (Setagaya-Ku) - Fibroma

Case 2 - Diagnosis:
Fibroma, ovary

Case 2 - References:

Ovarian fibroma in a 7-month-old infant: a case report and review of the literature. *Pediatr Surg Int* 2004; Dec;20(11-12): p894-7. Chen YJ; Hsieh CS, et al.
Ovarian cellular fibromas lack FOXL2 mutations: a useful diagnostic adjunct in the distinction from diffuse adult granulosa cell tumor. *Am J Surg Pathol* 2013; Sep;37(9): p1450-5. McCluggage WG; Singh N, et al.
Ovarian fibromas with heavy deposition of hyaline globules: a diagnostic pitfall. *Int J Gynecol Pathol* 2009; Jul;28(4): p356-61. Michal M; Kacerovska D, et al.
A giant ovarian fibroma. *Acta Obstet Gynecol Scand* 2009; 88(7): p860-1. Stukan M; Wojtylak S, et al.
Perspectives on pure ovarian stromal neoplasms and tumor-like proliferations of the ovarian stroma. *Am J Surg Pathol* 2011; Mar;35(3): pe15-33. Roth LM; Czernobilsky B.

Case No. 3, Accession No. 31784 March 2015

Glendale - Ovarian fibroma
San Francisco (UCSF) - Fibrothecoma
Torrance (Harbor-UCLA Medical Center) - Fibroma of ovary (fibrothecoma)
Alabama (Cunningham Pathology) - Thecoma
Connecticut (Danbury Hospital) - Fibroma/fibrothecoma
Delaware (Armed Forces Medical Examiner System) - Ovarian fibroma
Georgia, Atlanta - Fibrothecoma
Illinois (Heartland Regional Medical Center) - Fibrothecoma
Kansas (Peterson Laboratory Services, P.A.) - Fibrothecoma
Maryland (University of Maryland) - Fibroma
New York (SUNY Downstate Medical Center) - Fibrothecoma
New York (University of Buffalo Residents) - Fibrothecoma
New York (University of Rochester Medical Center) - Fibrothecoma
Mississippi (University of Mississippi Medical Center) - Stromal hyperthecosis
Ohio (The University of Toledo Medical Center) - Fibrothecoma

Pennsylvania (Drexel University College of Medicine Residents) - Fibroma
Puerto Rico (Associated Pathologists Laboratory) - Fibrothecoma/cellular fibroma
Tennessee, Knoxville - Fibroma
Texas, Crystal Beach - Fibroma
Texas, Lubbock - Thecoma
Australia (Royal Prince Alfred Hospital) - Fibrothecoma
Australia (St. Vincent's Hospital) - Fibrothecoma
Canada (Pasqua Hospital) - Fibromatosis
Canada (Royal Alexandra Hospital) - Fibroma
Ireland (Connelly Hospital) - Fibroma
Japan (Asahi General Hospital) - Fibroma
Japan (Lions Mansion Nijyo-Ekimae) - Fibroma-thecoma group
Japan (Setagaya-Ku) - Fibroma

Case 3 - Diagnosis:
Fibrothecoma, ovary

Case 3 - References:

Ovarian fibroma/fibrothecoma: retrospective cohort study shows limited value of risk of malignancy index score. Aust N Z *J Obstet Gynaecol* 2013; Jun;53(3): p287-92. Numanoglu C; Kuru O
Meigs' syndrome and virilizing ovarian fibrothecoma complicating pregnancy. A case report and review of the literature. *Neuro Endocrinol Lett* 2009; 30(2): p192-4. Nowak M; Podciechowski L, et al.
Giant malignant ovarian fibrothecoma involved with retroperitoneal structures mimicking a retroperitoneal sarcoma. *Arch Gynecol Obstet* 2009; May;279(5): p763-5. Liu H; Hao SH; Li WM.
Testicular fibrothecoma: a morphologic and immunohistochemical study of 16 cases. *Am J Surg Pathol* 2013; Aug;37(8): p1208-14. Zhang M; Kao CS; Epstein JI.
Clinical characteristics and surgical management options for ovarian fibroma/fibrothecoma: a study of 97 cases. *Gynecol Obstet Invest* 2013; 76(3): p182-7. Cho YJ; Lee HS, et al.
Bilateral Ovarian Fibrothecoma Associated with Ascites, Bilateral Pleural Effusion, and Marked Elevated Serum CA-125. Case Rep *Obstet Gynecol* 2013;189072 Loue VA; Gbary E, et al.
Ovarian fibromas and fibrothecomas: sonographic correlation with computed tomography and magnetic resonance imaging: a 5-year single-institution experience. *J Ultrasound Med* 2013; Jan;32(1): p13-8. Yen P; Khong K, et al.

Case No. 4, Accession No. 31756 March 2015

Glendale - Mucinous cystadenoma
San Francisco (UCSF) - Endometriosis with mucinous metaplasia
Torrance (Harbor-UCLA Medical Center) - Cystadenoma (predominantly mucinous)
Alabama (Cunningham Pathology) - Serous cystadenoma
Connecticut (Danbury Hospital) - Mucinous cystadenoma
Delaware (Armed Forces Medical Examiner System) - Seromucinous cystadenoma
Georgia, Atlanta - Mucinous cystadenoma
Illinois (Heartland Regional Medical Center) - Mucinous cystadenoma
Kansas (Peterson Laboratory Services, P.A.) - Seromucinous cystadenoma
Maryland (University of Maryland) - Mucinous cystadenoma
New York (SUNY Downstate Medical Center) - Mucinous cystadenoma
New York (University of Buffalo Residents) - Mucinous cystadenoma
New York (University of Rochester Medical Center) - Mucinous cystadenoma with associated endometriosis
Mississippi (University of Mississippi Medical Center) - Mucinous cystadenoma
Ohio (The University of Toledo Medical Center) - Mucinous cystadenoma
Pennsylvania (Drexel University College of Medicine Residents) - Mucinous cystadenoma
Puerto Rico (Associated Pathologists Laboratory) - Mucinous cystadenoma
Tennessee, Knoxville - Mucinous cystadenoma
Texas, Crystal Beach - Rete cystadenoma
Texas, Lubbock - Mucinous cystadenoma

Australia (Royal Prince Alfred Hospital) - Benign mucinous cystadenoma
Australia (St. Vincent's Hospital) - Mucinous cystadenoma
Canada (Pasqua Hospital) - Mucinous cyst and microscopic focus of endometriosis
Canada (Royal Alexandra Hospital) - Mucinous cystadenoma
Ireland (Connelly Hospital) - Mucinous cyst adenoma
Japan (Asahi General Hospital) - Mucinous borderline tumor
Japan (Lions Mansion Nijyo-Ekimae) - Mucinous cystadenoma
Japan (Setagaya-Ku) - Mucinous cystadenoma

Case 4 - Diagnosis:

Mucinous cystadenoma, intestinal type, ovary

Case 4 - References:

Ovarian mucinous cystadenoma of borderline malignancy in a premenarchal girl. *J Pediatr Adolesc Gynecol* 2010; Jun;23(3): pe119-23. Iwasaki M; Taira K, et al.
Does intraoperative spillage of benign ovarian mucinous cystadenoma increase its recurrence rate? *Am J Obstet Gynecol* 2010; Feb;202(2): p142.e1-5. Ben-Ami I; Smorgick N, et al.
Villous mucinous cystadenoma of the appendix in a postmenopausal woman. *JSLS* 2010; Apr-Jun;14(2): p296-8. Nouri K; Demmel M, et al.
Ovarian mucinous cystadenoma coexisting with benign Brenner tumor: MR imaging findings. *Abdom Imaging* 2013; Apr;38(2): p412-6. Kato H; Kanematsu M, et al.
Ovarian mucinous cystic tumor with sarcoma-like mural nodules and multifocal anaplastic carcinoma: a case report. *Int J Clin Exp Pathol* 2013; 6(8): p1688-92. Zheng J; Geng M, et al.
Primary retroperitoneal mucinous cystadenoma with a sarcoma-like mural nodule: an immunohistochemical study with histogenetic considerations and literature review. *Int J Gynecol Pathol* 2013; Jan;32(1): p15-25. Demirel D; Gun I, et al.

Case No. 5, Accession No. 31755 March 2015

Glendale - Serous cystadenofibroma
San Francisco (UCSF) - Serous cystadenofibroma
Torrance (Harbor-UCLA Medical Center) - Serous cystadenofibroma
Alabama (Cunningham Pathology) - Serous cystadenofibroma
Connecticut (Danbury Hospital) - Serous cystadenofibroma with focal epithelial proliferation
Delaware (Armed Forces Medical Examiner System) - Serous cystadenofibroma with focal epithelial proliferation
Georgia, Atlanta - Serous cystadenofibroma
Illinois (Heartland Regional Medical Center) - Serous cystadenofibroma
Kansas (Peterson Laboratory Services, P.A.) - Endometrioid cystadenofibroma
Maryland (University of Maryland) - Cystadenofibroma
New York (SUNY Downstate Medical Center) - Serous cystadenofibroma
New York (University of Buffalo Residents) - Serous cystadenoma
New York (University of Rochester Medical Center) - Serous cystadenofibroma with focal atypia (<10%)
Mississippi (University of Mississippi Medical Center) - Serous cystadenoma
Ohio (The University of Toledo Medical Center) - Serous cystadenofibroma
Pennsylvania (Drexel University College of Medicine Residents) - Serous cystadenofibroma
Puerto Rico (Associated Pathologists Laboratory) - Serous cystadenofibroma
Tennessee, Knoxville - Serous cystadenofibroma
Texas, Crystal Beach - Adenofibroma
Texas, Lubbock - Serous cystadenofibroma
Australia (Royal Prince Alfred Hospital) - Benign serous cystadenoma
Australia (St. Vincent's Hospital) - Serous cystadenofibroma
Canada (Pasqua Hospital) - Serous cystadenoma
Canada (Royal Alexandra Hospital) - Serous cystadenofibroma
Ireland (Connelly Hospital) - Serous cyst adenofibroma
Japan (Asahi General Hospital) - Endometrioid cystadenoma

Japan (Lions Mansion Nijyo-Ekimae) - Serous cystadenofibroma
Japan (Setagaya-Ku) - Endometrioid cysts

Case 5 - Diagnosis:
Serous cystadenofibroma, ovary

Case 5 - References:

Ovarian serous cystadenofibromas associated with a low-grade serous carcinoma of the peritoneum. *Ann Diagn Pathol* 2013; Jun;17(3): p302-4. Hinson SA; Silva EG; Pinto K.
Is MRI a useful tool to distinguish between serous and mucinous borderline ovarian tumours? *Clin Radiol* 2013; Jan;68(1): pe1-8. Bazot M; Haouy D, et al.
Benign ovarian serous tumors: a re-evaluation and proposed reclassification of serous "cystadenomas" and "cystadenofibromas". *Gynecol Oncol* 2005; Feb;96(2): p395-401. Seidman JD; Mehrotra A.
Papillary serous cystadenofibroma of the ovary--is it really so rare? *Int J Gynaecol Obstet* 2001; Oct;75(1): p85-6. Fatum M; Rojansky N; Shushan A.
Primary leiomyoma of the ovary co-existing with serous cystadenofibroma. *APMIS* 2005; Feb;113(2): p145-7. Eren F; Akpulat S; Gokaslan H.

Case No. 6, Accession No. 31717 March 2015

Glendale - Serous tumor of LMP
San Francisco (UCSF) - Serous borderline tumor
Torrance (Harbor-UCLA Medical Center) - Serous borderline tumor
Alabama (Cunningham Pathology) - Serous borderline tumor
Connecticut (Danbury Hospital) - Borderline mucinous, endocervical type
Delaware (Armed Forces Medical Examiner System) - Serous borderline tumor
Georgia, Atlanta - Serous borderline tumor
Illinois (Heartland Regional Medical Center) - Serous papillary tumor of borderline malignancy
Kansas (Peterson Laboratory Services, P.A.) - Serous borderline tumor with microinvasion
Maryland (University of Maryland) - Serous borderline tumor
New York (SUNY Downstate Medical Center) - Serous borderline tumor
New York (University of Buffalo Residents) - Borderline serous ovarian tumor
New York (University of Rochester Medical Center) - Serous borderline tumor with microinvasion
Mississippi (University of Mississippi Medical Center) - High grade serous carcinoma
Ohio (The University of Toledo Medical Center) - Borderline serous tumors
Pennsylvania (Drexel University College of Medicine Residents) - Serous borderline tumor
Puerto Rico (Associated Pathologists Laboratory) - Serous borderline tumor
Tennessee, Knoxville - Serous borderline tumor
Texas, Crystal Beach - Serous papillary tumor, borderline
Texas, Lubbock - Serous neoplasm of low malignant potential
Australia (Royal Prince Alfred Hospital) - Borderline serous tumor with microinvasion
Australia (St. Vincent's Hospital) - Serous borderline tumor
Canada (Pasqua Hospital) - Serous borderline tumor
Canada (Royal Alexandra Hospital) - Serous borderline tumor
Ireland (Connelly Hospital) - Borderline serous cyst tumor
Japan (Asahi General Hospital) - Clear cell carcinoma
Japan (Lions Mansion Nijyo-Ekimae) - Serous borderline tumor
Japan (Setagaya-Ku) - Mucinous cystadenoma, borderline

Case 6 - Diagnosis:
Serous borderline tumor, ovary

Case 6 - References:

Fine needle aspiration of borderline ovarian lesions. Is It useful? *Acta Cytol* 2005; May-Jun;49(3): p278-85. Athanassiadou P; Grapsa D.

Pelvic washing cytology in serous borderline tumors of the ovary using ThinPrep: are there cytologic clues to detecting tumor cells? *Diagn Cytopathol* 2004; May;30(5): p313-9. Sadeghi S; Ylagan LR.
Serous and mucinous borderline (low malignant potential) tumors of the ovary. *Am J Clin Pathol* 2005; Jun;123 Suppl:S13-57. Acs G.
Prognosis and prognostic factors of the micropapillary pattern in patients treated for stage II and III serous borderline tumors of the ovary. *Oncologist* 2011;16(2): p189-96. Uzan C; Kane A, et al.
Primary ovarian borderline tumor in the inguinal lymph node. *Int J Gynecol Pathol* 2013; Mar;32(2): p167-70. Carrabin N; Treilleux I, et al.
Ovarian serous borderline tumor detected by conventional papanicolaou smear: a case report. *Acta Cytol* 2013; 57(1): p96-9. Tepeoglu M; Ozen O; Ayhan A.

Case No. 7, Accession No. 31706 March 2015

Glendale - Adult granulosa cell tumor
San Francisco (UCSF) - Sertoli Leydig cell tumor
Torrance (Harbor-UCLA Medical Center) - Adult granulosa cell tumor
Alabama (Cunningham Pathology) - Sertoli cell tumor
Connecticut (Danbury Hospital) - Adult granuloma cell tumor
Delaware (Armed Forces Medical Examiner System) - Granulosa cell tumor
Georgia, Atlanta - Adult granulosa cell tumor
Illinois (Heartland Regional Medical Center) - Granulosa cell tumor, adult type
Kansas (Peterson Laboratory Services, P.A.) - Poorly differentiated Sertoli Leydig tumor
Maryland (University of Maryland) - Sertoli-Leydig cell tumor
New York (SUNY Downstate Medical Center) - Adult granulosa cell tumor
New York (University of Buffalo Residents) - Small cell carcinoma of the ovary, pulmonary type
New York (University of Rochester Medical Center) - Sex cord stromal tumor, favor granulosa cell tumor
Mississippi (University of Mississippi Medical Center) - Granulosa cell tumor
Ohio (The University of Toledo Medical Center) - Adult granulosa cell tumor
Pennsylvania (Drexel University College of Medicine Residents) - Granulosa cell tumor
Puerto Rico (Associated Pathologists Laboratory) - Granulosa cell tumor
Tennessee, Knoxville - Adult granulosa cell tumor
Texas, Crystal Beach - Granulosa cell tumor
Texas, Lubbock - Granulosa cell tumor
Australia (Royal Prince Alfred Hospital) - Atypical carcinoid tumor
Australia (St. Vincent's Hospital) - Adult granulosa cell tumor
Canada (Pasqua Hospital) - Granulosa cell tumor
Canada (Royal Alexandra Hospital) - Granulosa cell tumor
Ireland (Connelly Hospital) - Adult granulosa cell tumor
Japan (Asahi General Hospital) - Adult granulosa cell tumor
Japan (Lions Mansion Nijyo-Ekimae) - Adult granulosa cell tumor
Japan (Setagaya-Ku) - Wolffian tumor

Case 7 - Diagnosis:

Adult granulosa cell tumor, adnexa

Case 7 - 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
Adult-type granulosa cell tumors and FOXL2 mutation. *Cancer Res* 2009; Dec 15;69(24): p9160-2. Kobel M; Gilks CB; Huntsman DG.
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, et al.
Ovarian granulosa cell tumors: a retrospective study of 27 cases and a review of the literature. *World J Surg Oncol* 2013;11:142. Sekkate S; Kairouani M, et al.

Granulosa cell tumor of the ovary: cytologic findings. *Acta Cytol* 2010; Jul-Aug;54(4): p551-9. Kavuri S; Kulkarni R; Reid-Nicholson M.
The epidemiology of ovarian granulosa cell tumors: a case-control study. *Gynecol Oncol* 2009; Nov;115(2): p221-5. Boyce EA; Costaggini I, et al.
Adult granulosa cell tumour of the ovary associated with pregnancy. *J Obstet Gynaecol* 2011; 31(3): p272-4. Fernandez-Cid M; Pascual MA, et al.

Case No. 8, Accession No. 31786 March 2015

Glendale - Mature cystic teratoma
San Francisco (UCSF) - Mature cystic teratoma
Torrance (Harbor-UCLA Medical Center) - Mature cystic teratoma
Alabama (Cunningham Pathology) - Benign cystic teratoma
Connecticut (Danbury Hospital) - Mature teratoma
Delaware (Armed Forces Medical Examiner System) - Mature cystic teratoma
Georgia, Atlanta - Mature teratoma
Illinois (Heartland Regional Medical Center) - Mature cystic teratoma
Kansas (Peterson Laboratory Services, P.A.) - Immature teratoma
Maryland (University of Maryland) - Mature cystic teratoma
New York (SUNY Downstate Medical Center) - Mature teratoma
New York (University of Buffalo Residents) - Mature teratoma
New York (University of Rochester Medical Center) - Cystic teratoma with questionable foci of immature neural elements
Mississippi (University of Mississippi Medical Center) - Mature cystic teratoma
Ohio (The University of Toledo Medical Center) - Mature cystic teratoma
Pennsylvania (Drexel University College of Medicine Residents) - Mature cystic teratoma
Puerto Rico (Associated Pathologists Laboratory) - Mature (cystic) teratoma
Tennessee, Knoxville - Mature cystic teratoma
Texas, Crystal Beach - Benign teratoma
Texas, Lubbock - Benign cystic teratoma
Australia (Royal Prince Alfred Hospital) - Mature cystic teratoma with borderline mucinous tumor
Australia (St. Vincent's Hospital) - Mature cystic teratoma
Canada (Pasqua Hospital) - Mature teratoma
Canada (Royal Alexandra Hospital) - Mature cystic teratoma
Ireland (Connelly Hospital) - Mature cystic teratoma
Japan (Asahi General Hospital) - Teratoma
Japan (Lions Mansion Nijyo-Ekimae) - Mature cystic teratoma
Japan (Setagaya-Ku) - Dermoid cyst

Case 8 - Diagnosis:

Mature cystic teratoma, ovary

Case 8 - References:

Ovarian and paraovarian squamous-lined cysts (epidermoid cysts): a clinicopathologic study of 18 cases with comparison to mature cystic teratomas. *Int J Gynecol Pathol* 2009; Mar;28(2): p193-6. Khedmati F; Chirolas C; Seidman JD.
Cystic struma ovarii: a report of three cases. *Pathologica* 2010; Feb;102(1): p36-8. Manini C; Magistris A; Puopolo M; Montironi PL.
Intraperitoneal rupture of mature cystic ovarian teratoma secondary to sit-ups. *J Formos Med Assoc* (China 2009 Feb;108(2): p173-5. Chang YT; Lin JY.
Ovarian pathology for the pediatric urologist. *Urology* 2011; Jun;77(6): p1455-9. Yiee JH; Betts J; Baskin LS.
A clinico-pathological evaluation of 194 patients with ovarian teratoma: 7-year experience in a single center. *Ginekol Pol* 2013; Feb;84(2): p108-11. Hursitoglu BS; Demirtas GS; Demirtas O; Akman L; Yilmaz H.
Monophasic teratoma of the ovarian remnant in a bitch. *Reprod Domest Anim* 2013; Apr;48(2): pe26-8. Rota A; Tursi M; Zabarino S; Appino S.

Case No. 9, Accession No. 30860 March 2015

Glendale - Mixed germ cell tumor: dysgerminoma and yolk sac tumor
San Francisco (UCSF) - Mixed germ cell tumor (embryonal and yolk sac tumor)
Torrance (Harbor-UCLA Medical Center) - Germ cell tumor/dysgerminoma
Alabama (Cunningham Pathology) - Malignant mixed germ cell tumor
Connecticut (Danbury Hospital) - Dysgerminoma
Delaware (Armed Forces Medical Examiner System) - Mixed germ cell tumor (dysgerminoma, yolk sac tumor, embryonal carcinoma).
Georgia, Atlanta - Dysgerminoma
Illinois (Heartland Regional Medical Center) - Dysgerminoma and yolk sac tumor
Kansas (Peterson Laboratory Services, P.A.) - Dysgerminoma
Maryland (University of Maryland) - Mixed germ cell tumor
New York (SUNY Downstate Medical Center) - Mixed germ cell tumor (dysgerminoma and yolk-sac tumor)
New York (University of Buffalo Residents) - Mixed germ cell tumor (dysgerminoma and embryonal carcinoma)
New York (University of Rochester Medical Center) - Germ cell tumor, concerning for mixed GCT with dysgerminoma and yolk sac components
Mississippi (University of Mississippi Medical Center) - Malignant mixed germ cell tumor (dysgerminoma and yolk sac seen)
Ohio (The University of Toledo Medical Center) - Anaplastic dysgerminoma
Pennsylvania (Drexel University College of Medicine Residents) - Dysgerminoma
Puerto Rico (Associated Pathologists Laboratory) - Mixed germ cell tumor (dysgerminoma and yolk sac)
Tennessee, Knoxville - Dysgerminoma and yolk sac tumor
Texas, Crystal Beach - Embryonal carcinoma
Texas, Lubbock - Dysgerminoma and choriocarcinoma
Australia (Royal Prince Alfred Hospital) - Mixed germ cell tumor (yolk sac 10%, embryonal 90%)
Australia (St. Vincent's Hospital) - Dysgerminoma
Canada (Pasqua Hospital) - Dysgerminoma
Canada (Royal Alexandra Hospital) - Dysgerminoma
Ireland (Connelly Hospital) - Serous adenocarcinoma, high grade
Japan (Asahi General Hospital) - Dysgerminoma
Japan (Lions Mansion Nijyo-Ekimae) - Mixed germ cell tumor (embryonal carcinoma with focal area of yolk sac tumor)
Japan (Setagaya-Ku) - Embryonal carcinoma

Case 9 - Diagnosis:

Mixed malignant germ cell tumor with embryonal carcinoma, dysgerminoma and yolk sac tumor, ovary

Case 9 - References:

Malignant ovarian germ cell tumors: clinico-pathological presentation and survival outcomes. *Acta Obstet Gynecol Scand* 2010; 89(2): p182-9. Tangjitgamol S; Hanprasertpong J, et al.
Malignant mixed mullerian tumor with malignant neuroectodermal components (teratoid carcinosarcoma) of the ovary: Report of a case with clinicopathologic findings. *J Obstet Gynaecol Res* 2010; Aug;36(4): p907-11. Matsuura Y; Kitajima M, et al.
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Glendale - Immature teratoma with secondary somatic malignancy: sarcoma and squamous cell carcinoma
San Francisco (UCSF) - Carcinosarcoma
Torrance (Harbor-UCLA Medical Center) - Carcinosarcoma
Alabama (Cunningham Pathology) - Malignant mixed germ cell tumor including immature teratoma
Connecticut (Danbury Hospital) - Carcinosarcoma
Delaware (Armed Forces Medical Examiner System) - Malignant mixed mullerian tumor

Georgia, Atlanta - Malignant mixed mullerian tumor with focal squamous cell carcinoma
Illinois (Heartland Regional Medical Center) - Malignant mixed mullerian tumor
Kansas (Peterson Laboratory Services, P.A.) - Malignant mixed mullerian tumor
Maryland (University of Maryland) - Carcinosarcoma
New York (SUNY Downstate Medical Center) - Carcinosarcoma
New York (University of Buffalo Residents) - Malignant mixed mullerian tumor
New York (University of Rochester Medical Center) - Carcinosarcoma
Mississippi (University of Mississippi Medical Center) - Carcinosarcoma
Ohio (The University of Toledo Medical Center) - Metaplastic carcinoma (MMMT)
Pennsylvania (Drexel University College of Medicine Residents) - Malignant mixed mullerian tumor
Puerto Rico (Associated Pathologists Laboratory) - Carcinosarcoma
Tennessee, Knoxville - Malignant mixed mullerian tumor
Texas, Crystal Beach - Endometrial carcinoma anaplastic (mostly small cell with occasional squamous differentiation)
Texas, Lubbock - Carcinosarcoma
Australia (Royal Prince Alfred Hospital) - Carcinosarcoma
Australia (St. Vincent's Hospital) - Carcinosarcoma (MMMT)
Canada (Pasqua Hospital) - Malignant mixed mullerian tumor
Canada (Royal Alexandra Hospital) - Mixed mullerian tumor
Ireland (Connelly Hospital) - Malignant mixed mullerian tumor
Japan (Asahi General Hospital) - Carcinosarcoma
Japan (Lions Mansion Nijyo-Ekimae) - Carcinosarcoma
Japan (Setagaya-Ku) - Endometrioid carcinoma

Case 10 - Diagnosis:

Carcinosarcoma (MMMT), uterus

Case 10 - References:

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