



CALIFORNIA
TUMOR TISSUE REGISTRY

OVARIAN PATHOLOGY

Minutes – Subscription A

May 2014



SUGGESTED READING (General Topics from Recent Literature):

Hwang H, Tse C, et al. p16 FISH Deletion in Surface Epithelial Mesothelial Proliferations Is Predictive of Underlying Invasive Mesothelioma. *Am J Surg Pathol* 2014; epub ahead of print.

Pantanowitz L, Sinard JH, et al. Validating Whole Slide Imaging for Diagnostic Purposes in Pathology: Guideline From the College of American Pathologists Pathology and Laboratory Quality Center. *Arch Pathol Lab Med* 2013; 137: 1710-1722.

Ott G, Rosenwald A, Campo E. Understanding *MYC*-Driven Aggressive B-Cell Lymphomas: Pathogenesis and Classification. *Blood* 2013; 122: 3884-3891.

Le Guellec A, Chibon F, et al. Are Peripheral Purely Undifferentiated Pleomorphic Sarcomas With *MDM2* Amplification Dedifferentiated Liposarcomas? *Am J Surg Pathol* 2014; 38: 293-304.

Julia F, Dalle S, et al. Blastic Plasmacytoid Dendritic Cell Neoplasms: Clinico-Immunohistochemical Correlations in a Series of 91 Patients. *Am J Surg Pathol* 2014; epub ahead of print.

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FILE DIAGNOSES

CTTR Subscription A

May 2014

Case 1:

Fibrothecoma, ovary

Case 2:

Mature cystic teratoma, ovary

Case 3:

Immature cystic teratoma, ovary

Case 4:

Steroid cell tumor, NOS, ovary

Case 5:

Clear cell carcinoma, ovary

Case 6:

Juvenile granulosa cell tumor, ovary

Case 7:

Adult granulosa cell tumor, ovary

Case 8:

Serous cystadenoma, ovary

Case 9:

Serous borderline tumor (borderline serous cystadenoma), ovary

Case 10:

Seromucinous borderline tumor (endocervical type), ovary

Alameda (Alameda County Medical Center) - Fibroma/thecoma (5)
Colton (Arrowhead Medical Center) - Sex cord stromal tumor, right ovary
Fontana (Kaiser Permanente) - Fibroma
Glendale - Fibroma
Hayward/Fremont (St. Rose Hospital) - Thecoma
Long Beach (Long Beach Veterans Hospital) - Fibrothecoma
San Diego (Naval Medical Center) - Fibrothecoma
Santa Barbara (Miramonte Laboratory) - Fibroma/thecoma
Woodland Hills (Kaiser Permanente) - Fibroma
Alabama (Cunningham Pathology) - Fibroma with calcification
Arkansas (Associated Pathologists Laboratory) - Fibroma
Colorado (Metropolitan Pathologists) - Fibroma
Colorado (University of Colorado) - Fibroma
Connecticut (Danbury Hospital) - Leiomyoma with amianthoid fibers
Florida (Florida Atlantic University) - Sclerosing stromal tumor
Florida (GastroEnterology Assocaites of Ocula) - Ependymoma PNET
Georgia, Atlanta - Fibrothecoma
Georgia (Wellstar Kennestone Hospital) - Palisading myofibroblastoma (2)
Kansas (Peterson Laboratory Services) - Fibroma
Louisiana (LSUHSC-Shreveport) - Thecoma
Maryland (Walter Reed National Military Medical Center) - Fibroma
Michigan (University of Michigan) - Thecoma
Michigan (William Beaumont Hospital) - Fibroma
Minnesota (Fairview Ridges Hospital) - Fibroma
Mississippi, Hattiesburg - Fibrothecoma
Missouri (Mercy Hospital-Jopin) - Fibroma
Missouri (Missouri Delta Medical Center) - Fibroma
New York (SUNY Downstate Medical Center Residents) - Fibrothecoma
North Carolina (Eastern Carolina Pathology Assoc.) - Ovarian fibroma
Ohio (Summa Health System) - Fibroma
Ohio, Union Town - Fibroma
Pennsylvania (Drexel University/Hahnemann University Hospital) - Fibroma
Pennsylvania (Lehigh Valley Hospital) - Thecoma
Puerto Rico (University of Puerto Rico) - Fibroma/thecoma
South Carolina (Medical University of South Carolina) - Fibroma
South Dakota (Sanford School of Medicine) - Fibroma (Gorlin syndrome)
Texas (Anderson Cancer Center) - Fibroma
Texas (Crystal Beach) - Fibrothecoma
Texas, Lubbock - Thecoma
Texas (Scott & White Hospital Residents) - Thecoma
Washington (Seattle VAMC) - Stromal cell neoplasm, fibroma
Wisconsin, Madison - Ovarian fibroma
Wisconsin (Medical Assessment and Consultation, S.C.) - Thecoma
Wisconsin (Medical College of Wisconsin) - Fibrothecoma
Australia (Royal Hobart Hospital) - Fibrothecoma
Australia (Sydpath) - Fibrothecoma
Brazil (Bahia Federal University Residents) - Fibroma (calcified-r/o Gorlin syndrome)
Canada (Pasqua Hospital) - Fibroma
Ireland (Bon Secours Hospital) - Thecoma
Ireland (Kerry General Hospital) - Ovarian fibroma
Ireland (Mayo General Hospital) - Ovarian thecoma/fibroma
Japan (Asahi General Hospital) - Fibroma
Japan (Setagayu-Ku) - Thecofibroma
Japan (University of Yamanashi) - Fibroma
Japan (Wakayama Medical University) - Fibrothecoma

Oman (Khoula Hospital) - Fibroma
Saudi Arabia (King Khalid University Hospital) - Ovarian fibrothecoma
Singapore (KTPH) - Fibrothecoma
Spain (Hospital Xeral de Vigo) - Fibrothecoma

Case 1 - Diagnosis:

Fibrothecoma, ovary

Case 1 - References:

Mutational analysis of FOXL2 codon 134 in granulosa cell tumour of ovary and other human cancers.
J Pathol 2010; Jun;221(2): p147-52.

Kim MS; Hur SY, et al.

Expression of CD56 and WT1 in ovarian stroma and ovarian stromal tumors.

Am J Surg Pathol 2008; Jun;32(6): p884-90.

He H; Luthringer DJ, et al.

[Ovarian fibrothecoma: MR imaging findings and differential diagnosis]

Praxis (Bern 1994; 2006 Feb 22;95(8): p283-6.

Knusel PR; Kubik-Huch RA, et al.

Incidence, clinical analysis, and management of ovarian fibromas and fibrothecomas.

Am J Obstet Gynecol 2008; Nov;199(5): p473.e1-4.

Cechia A; Attia L, et al.

Giant fibrothecoma--an interesting case.

Clin Exp Obstet Gynecol 2007;;34(1): p57-9.

Garrido JL; Beytia I, et al.

Case No. 2, Accession No. 31638

May 2014

Alameda (Alameda County Medical Center) - Mature teratoma (5)
Colton (Arrowhead Medical Center) - Mature teratoma (2)
Fontana (Kaiser Permanente) - Mature cystic teratoma
Glendale - Mature cystic teratoma
Hayward/Fremont (St. Rose Hospital) - Benign cystic teratoma
Long Beach (Long Beach Veterans Hospital) - Benign mature teratoma (dermoid cyst)
San Diego (Naval Medical Center) - Dermoid cyst
Santa Barbara (Miramonte Laboratory) - Mature teratoma
Woodland Hills (Kaiser Permanente) - Mature teratoma
Alabama (Cunningham Pathology) - Mature cystic teratoma
Arkansas (Associated Pathologists Laboratory) - Mature cystic teratoma
Colorado (Metropolitan Pathologists) - Dermoid cyst
Colorado (University of Colorado) - Mature cystic teratoma (dermoid cyst)
Connecticut (Danbury Hospital) - Mature cystic teratoma
Florida (Florida Atlantic University) - Benign cystic teratoma
Florida (GastroEnterology Associates of Ocala) - Mature cystic teratoma
Georgia, Atlanta - Mature teratoma
Georgia (Wellstar Kennestone Hospital) - Mature cystic teratoma (2)
Kansas (Peterson Laboratory Services) - Mature cystic teratoma
Louisiana (LSUHSC-Shreveport) - Mature cystic teratoma
Maryland (Walter Reed National Military Medical Center) - Dermoid cyst
Michigan (University of Michigan) - Mature cystic teratoma
Michigan (William Beaumont Hospital) - Mature cystic teratoma
Minnesota (Fairview Ridges Hospital) - Mature cystic teratoma

Mississippi (Hattiesburg) - Mature cystic teratoma (dermoid cyst)
Missouri (Mercy Hospital-Joplin) - Mature cystic teratoma (dermoid cyst)
Missouri (Missouri Delta Medical Center) - Mature teratoma
New York (SUNY Downstate Medical Center Residents) - Mature teratoma
North Carolina (Eastern Carolina Pathology Assoc.) - Mature cystic teratoma
Ohio (Summa Health System) - Mature ovarian teratoma
Ohio, Union Town - Mature cystic teratoma
Pennsylvania (Drexel University/Hahnemann University Hospital) - Teratoma
Pennsylvania (Lehigh Valley Hospital) - Mature cystic teratoma
Puerto Rico (University of Puerto Rico) - Mature cystic teratoma
South Carolina (Medical University of South Carolina) - Mature teratoma
South Dakota (Sanford School of Medicine) - Mature cystic teratoma
Texas (Anderson Cancer Center) - Teratoma, mature/dermoid
Texas (Crystal Beach) - Dermoid cyst
Texas, Lubbock - Mature teratoma
Texas (Scott & White Hospital Residents) - Mature teratoma
Washington (Seattle VAMC) - Germ cell neoplasm, teratoma mature
Wisconsin, Madison - Dermoid cyst (benign cystic teratoma)
Wisconsin (Medical Assessment and Consultation, S.C.) - Mature cystic teratoma (dermoid cyst)
Wisconsin (Medical College of Wisconsin) - Mature cystic teratoma
Australia (Royal Hobart Hospital) - Mature cystic teratoma
Australia (Sydney) - Mature cystic teratoma
Brazil (Bahia Federal University Residents) - Mature cystic teratoma (dermoid cyst)
Canada (Pasqua Hospital) - Mature teratoma
Ireland (Bon Secours Hospital) - Dermoid cyst
Ireland (Kerry General Hospital) - Mature ovarian cystic teratoma
Ireland (Mayo General Hospital) - Dermoid cyst of ovary
Japan (Asahi General Hospital) - Mature cystic teratoma
Japan (Setagaya-Ku) - Dermoid cyst
Japan (University of Yamanashi) - Mature teratoma
Japan (Wakayama Medical University) - Mature cystic teratoma
Oman (Khoula Hospital) - Dermoid cyst with serous cystadenoma
Saudi Arabia (King Khalid University Hospital) - Mature cystic teratoma of ovary
Singapore (KTPH) - Mature teratoma
Spain (Hospital Xeral de Vigo) - Mature teratoma

Case 2 - Diagnosis:

Mature cystic teratoma, ovary

Case 2 - References:

Ovarian cystic teratoma with a pathognomonic appearance of multiple floating balls: a case report and investigation of common characteristics of the cases in the literature.

Fertil Steril 2008; Nov;90(5): p2008.e17-9.

Gurel H; Gurel SA.

Recurrent mature cystic ovarian teratoma in adolescence: atypical case of the growing teratoma syndrome.

Obstet Gynecol 2005; May;105(5 Pt 2): p1264-6.

Benoit MF; Hannigan EV; Strickland JL.

Mature ovarian cystic teratoma with a highly differentiated homunculus: a case report.

Birth Defects Res A Clin Mol Teratol 2004; Jan;70(1): p40-6.

Kuno N; Kadomatsu K, et al.

Corpora amylacea in a mature cystic teratoma of the ovary.

Neuropathology 2005; Jun;25(2): p175-6.

Shintaku M.

Irregular dental structures in a benign ovarian cystic teratoma (dermoid cyst): case report.
Clin Exp Obstet Gynecol 2008;;35(2): p151-2.
Liberis V; Tsikouras P, et al.

Case No. 3, Accession No. 26515

May 2014

Alameda (Alameda County Medical Center) - Cystic teratoma consistent with immature elements (5)
Colton (Arrowhead Medical Center) - Mature teratoma, right ovary
Fontana (Kaiser Permanente) - Immature teratoma, grade 2
Glendale - Immature teratoma
Hayward/Fremont (St. Rose Hospital) - Immature teratoma
Long Beach (Long Beach Veterans Hospital) - Immature teratoma
San Diego (Naval Medical Center) - Immature cystic teratoma
Santa Barbara (Miramonte Laboratory) - Immature teratoma
Woodland Hills (Kaiser Permanente) - Immature teratoma
Alabama (Cunningham Pathology) - Immature cystic teratoma
Arkansas (Associated Pathologists Laboratory) - Immature teratoma
Colorado (Metropolitan Pathologists) - Immature teratoma
Colorado (University of Colorado) - Immature teratoma
Connecticut (Danbury Hospital) - Immature cystic teratoma
Florida (Florida Atlantic University) - Immature teratoma
Florida (GastroEnterology Associates of Ocala) - Immature teratoma
Georgia, Atlanta - Immature teratoma
Georgia (Wellstar Kennestone Hospital) - Immature teratoma (2)
Kansas (Peterson Laboratory Services) - Immature cystic teratoma
Louisiana (LSUHSC-Shreveport) - Immature teratoma
Maryland (Walter Reed National Military Medical Center) - Immature teratoma
Michigan (University of Michigan) - Teratoma with immature elements
Michigan (William Beaumont Hospital) - Immature teratoma
Minnesota (Fairview Ridges Hospital) - Immature teratoma
Mississippi, Hattiesburg - Mature solid teratoma
Missouri (Mercy Hospital-Joplin) - Immature teratoma
Missouri (Missouri Delta Medical Center) - Immature teratoma
New York (SUNY Downstate Medical Center Residents) - Immature teratoma
North Carolina (Eastern Carolina Pathology Assoc.) - Immature teratoma, low-grade
Ohio (Summa Health System) - Teratoma with immature neural elements
Ohio, Union Town - Immature teratoma
Pennsylvania (Drexel University/Hahnemann University Hospital) - Immature cystic teratoma
Pennsylvania (Lehigh Valley Hospital) - Immature teratoma
Puerto Rico (University of Puerto Rico) - Immature teratoma, grade 1
South Carolina (Medical University of South Carolina) - Immature teratoma
South Dakota (Sanford School of Medicine) - Immature teratoma
Texas (Anderson Cancer Center) - Teratoma, immature
Texas (Crystal Beach) - Immature teratoma
Texas, Lubbock - Immature teratoma
Texas (Scott & White Hospital Residents) - Immature teratoma
Washington (Seattle VAMC) - Germ cell neoplasm, teratoma, at least low grade immaturity
Wisconsin, Madison - Immature teratoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Immature cystic teratoma
Wisconsin (Medical College of Wisconsin) - Immature teratoma
Australia (Royal Hobart Hospital) - Immature teratoma, grade 1
Australia (Sydpath) - Immature teratoma
Brazil (Bahia Federal University Residents) - Immature teratoma, grade 1
Canada (Pasqua Hospital) - Immature teratoma
Ireland (Bon Secours Hospital) - Immature teratoma

Ireland (Kerry General Hospital) - Mature ovarian cystic teratoma
Ireland (Mayo General Hospital) - Immature teratoma
Japan (Asahi General Hospital) - Immature teratoma
Japan (Setagayu-Ku) - Immature teratoma
Japan (University of Yamanashi) - Immature teratoma
Japan (Wakayama Medical University) - Immature teratoma
Oman (Khoula Hospital) - Immature teratoma, grade 3
Saudi Arabia (King Khalid University Hospital) - Immature cystic teratoma of ovary
Singapore (KTPH) - Immature teratoma
Spain (Hospital Xeral de Vigo) - Immature teratoma

Case 3 - Diagnosis:

Immature cystic teratoma, ovary

Outside Consultation: AFIP, Robert F. Karnei, Jr., M.D., Capt, MC, USN – “Immature teratoma, Grade 2”.

Case 3 - References:

Immature ovarian teratoma in an adolescent: a case report and review of the literature.

J Pediatr Adolesc Gynecol 2004; Jun;17(3): p187-9.

Einarsson JJ; Edwards CL; Zurawin RK.

Oligodendroglioma arising in an immature ovarian teratoma: case report.

Pathologica 2008; Oct;100(5): p420-3.

Caltabiano R; Lanzafame S.

Retrospective study of teratomas of the ovary reveals a high incidence of epidermoid cysts.

Gynecol Oncol 2006; Jun;101(3): p548-9.

Chatzistamou I; Kairi-Vasillatou E, et al.

Immature teratoma of the ovary with distant metastases: favorable prognosis and insights into chemotherapeutic retroconversion.

Int J Gynecol Pathol 2010; Sep;29(5): p438-44.

Kurata A; Hirano K, et al.

A clinico-pathological evaluation of 194 patients with ovarian teratoma: 7-year experience in a single center.

Ginek Pol 2013; Feb;84(2): p108-11.

Hursitoglu BS; Demirtas GS, et al.

Teratomas and ovarian lesions in children.

Surg Clin North Am 2012; Jun;92(3): p599-613, viii.

Amies Oelschlager AM; Sawin R.

Usefulness of intraoperative imprint cytology in ovarian germ cell tumors.

Acta Cytol 2013;;57(2): p171-6.

Abe A; Sugiyama Y, et al.

Case No. 4, Accession No. 31520

May 2014

Alameda (Alameda County Medical Center) - Steroid cell tumor (5)

Colton (Arrowhead Medical Center) - Sex cord stromal tumor, left ovary

Fontana (Kaiser Permanente) - Leydig cell tumor

Glendale - Steroid cell tumor

Hayward/Fremont (St. Rose Hospital) - Leydig cell tumor

Long Beach (Long Beach Veterans Hospital) - Leydig cell tumor

San Diego (Naval Medical Center) - Stromal luteoma
Santa Barbara (Miramonte Laboratory) - Luteoma
Woodland Hills (Kaiser Permanente) - Leydig (Hilus) cell tumor
Alabama (Cunningham Pathology) - Steroid cell tumor, NOS
Arkansas (Associated Pathologists Laboratory) - Stromal luteoma
Colorado (Metropolitan Pathologists) - Steroid cell tumor
Colorado (University of Colorado) - Leydig cell nodule
Connecticut (Danbury Hospital) - Steroid cell tumor
Florida (Florida Atlantic University) - Steroid cell tumor
Florida (GastroEnterology Associates of Ocala) - Steroid cell tumor
Georgia, Atlanta - Steroid cell tumor, not otherwise specified
Georgia (Wellstar Kennestone Hospital) - Luteoma (2)
Kansas (Peterson Laboratory Services) - Stromal luteoma
Louisiana (LSUHSC-Shreveport) - Leydig cell tumor
Maryland (Walter Reed National Military Medical Center) - Steroid cell tumor
Michigan (University of Michigan) - Leydig cell tumor
Michigan (William Beaumont Hospital) - Steroid cell tumor
Minnesota (Fairview Ridges Hospital) - Steroid cell tumor
Mississippi, Hattiesburg - Stromal luteoma
Missouri (Mercy Hospital-Joplin) - Stromal luteoma
Missouri (Missouri Delta Medical Center) - Granular cell tumor
North Carolina (Eastern Carolina Pathology Assoc.) - Thecoma
New York (SUNY Downstate Medical Center Residents) - Lipid cell tumor
Ohio (Summa Health System) - Steroid cell tumor
Ohio, Union Town - Leydig cell tumor
Pennsylvania (Drexel University/Hahnemann University Hospital) - Sertoli-leydig cell tumor
Pennsylvania (Lehigh Valley Hospital) - Leydig cell tumor
Puerto Rico (University of Puerto Rico) - Steroid cell tumor, rule out stromal luteoma
South Carolina (Medical University of South Carolina) - Steroid tumor, NOS
South Dakota (Sanford School of Medicine) - Steroid cell tumor
Texas (Anderson Cancer Center) - Thecoma
Texas (Crystal Beach) - Steroid cell tumor
Texas, Lubbock - Steroid tumor, NOS
Texas (Scott & White Hospital Residents) - Steroid cell tumor
Washington (Seattle VAMC) - Sex cord/stromal cell neoplasm, Leydig cells
Wisconsin, Madison - Lipid cell tumor of ovary
Wisconsin (Medical Assessment and Consultation, S.C.) - Stromal luteoma
Wisconsin (Medical College of Wisconsin) - Hilus cell tumor
Australia (Royal Hobart Hospital) - Steroid cell tumor, NOS
Australia (Sydney) - Steroid cell tumor
Brazil (Bahia Federal University Residents) - Leydig cell tumor, hilar type
Canada (Pasqua Hospital) - Thecoma
Ireland (Bon Secours Hospital) - Stromal luteoma
Ireland (Kerry General Hospital) - Thecoma
Ireland (Mayo General Hospital) - Ovarian thecoma
Japan (Asahi General Hospital) - Steroid cell tumor, NOS
Japan (Setagaya-Ku) - PEcoma
Japan (University of Yamanashi) - Thecoma
Japan (Wakayama Medical University) - Steroid cell tumor, NOS
Oman (Khoula Hospital) - Leydig cell tumor
Saudi Arabia (King Khalid University Hospital) - Steroid cell tumor, NOS
Singapore (KTPH) - Steroid cell tumor
Spain (Hospital Xeral de Vigo) - Stromal luteoma (vs. Leydig cell)

Case 4 - Diagnosis:

Steroid cell tumor, NOS, ovary

Case 4 - References:

A case report of steroid cell tumour of the ovary--not otherwise specified variant with hyperandrogenism, hypercortisolism, hyperprolactinemia and hyperestrogenemia.

Ethiop Med J 2010; Jan;48(1): p67-72.

Abebe S; Erkie M; Feleke Y.

Ovarian steroid cell tumor, not otherwise specified (NOS): an unusual case with myelolipoma.

Int J Gynecol Pathol 2011; Sep;30(5): p460-5.

Zhang X; Lu B.

Cushing's syndrome caused by an ACTH-producing ovarian steroid cell tumor, NOS, in a prepubertal girl.

Endocrine 2009; Apr;35(2): p132-5.

Sawathiparnich P; Sitthinamsuwan P, et al.

A steroid-cell tumor of the ovary resulting in massive androgen excess early in the gonadal steroidogenic pathway.

Gynecol Endocrinol 2008; Sep;24(9): p502-4.

Stephens JW; Fielding A, et al.

Steroid cell tumors, not otherwise specified (NOS), in an accessory ovary: a case report and literature review.

Gynecol Oncol 2005; Apr;97(1): p260-2.

Liu AX; Sun J, et al.

Steroid cell tumour not otherwise specified during pregnancy: a case report and diagnostic work-up for virilisation in a pregnant patient.

Eur J Obstet Gynecol Reprod Biol 2004; Feb 10;112(2): p221-7.

Vulink AJ; Vermes I, et al.

Case No. 5, Accession No. 20887

May 2014

Alameda (Alameda County Medical Center) - Sertoli leydig cell tumor (5)

Colton (Arrowhead Medical Center) - Adenocarcinoma, Lt ovary

Fontana (Kaiser Permanente) - Sertoli cell tumor

Glendale - Clear cell tumor of LMP

Hayward/Fremont (St. Rose Hospital) - Metastatic vs. adenofibroma

Long Beach (Long Beach Veterans Hospital) - Sertoli cell tumor

San Diego (Naval Medical Center) - Clear cell carcinoma

Santa Barbara (Miramonte Laboratory) - Clear cell adenofibroma

Woodland Hills (Kaiser Permanente) - Sertoli-Leydig cell tumor

Alabama (Cunningham Pathology) - Mucinous adenocarcinoma

Arkansas (Associated Pathologists Laboratory) - Sertoli cell tumor

Colorado (Metropolitan Pathologists) - Clear cell carcinoma

Colorado (University of Colorado) - Endometrioid pattern, yolk sac tumor

Connecticut (Danbury Hospital) - Yolk sac tumor, glandular variant

Florida (Florida Atlantic University) - Sex cord stromal tumor

Florida (GastroEnterology Associates of Ocala) - Adult granulosa cell tumor

Georgia, Atlanta - Clear cell adenocarcinoma

Georgia (Wellstar Kennestone Hospital) - Brenner tumor (2)

Kansas (Peterson Laboratory Services) - Borderline clear cell adenofibroma

Louisiana (LSUHSC-Shreveport) - Sex cord tumor

Maryland (Walter Reed National Military Medical Center) - Sertoli-leydig cell tumor

Michigan (University of Michigan) - Sex cord tumor

Michigan (William Beaumont Hospital) - Sertoli cell tumor

Minnesota (Fairview Ridges Hospital) - Endometrioid-like yolk sac tumor

Mississippi, Hattiesburg - Surface epithelial tumor with clear cell change and atypia

Missouri (Mercy Hospital-Jopin) - Sex cord stromal tumor
Missouri (Missouri Delta Medical Center) - Endometrioid cancer
New York (SUNY Downstate Medical Center Residents) - Cystadenofibroma
North Carolina (Eastern Carolina Pathology Assoc.) - Well-differentiated sertoli leydig
Ohio (Summa Health System) - Clear cell carcinoma
Ohio, Union Town - Malignant serous adenofibroma
Pennsylvania (Drexel University/Hahnemann University Hospital) - Yolk sac tumor
Pennsylvania (Lehigh Valley Hospital) - Clear cell carcinoma
Puerto Rico (University of Puerto Rico) - Clear cell tumor, probably malignant, rule out metastasis
South Carolina (Medical University of South Carolina) - Clear cell borderline
South Dakota (Sanford School of Medicine) - Clear cell carcinoma with adenofibromatous stroma
Texas (Anderson Cancer Center) - Sertoli-leydig tumor
Texas (Crystal Beach) - Endometrioid adenocarcinoma
Texas, Lubbock - Clear cell carcinoma
Texas (Scott & White Hospital Residents) - Carcinoma
Washington (Seattle VAMC) - Carcinoma, endometrioid vs. clear cell
Wisconsin, Madison - Clear cell borderline ovarian tumor
Wisconsin (Medical Assessment and Consultation, S.C.) - Yolk sac neoplasm, endometrioid type
Wisconsin (Medical College of Wisconsin) - Yolk sac tumor
Australia (Royal Hobart Hospital) - Sertoli cell tumor is the preferred diagnosis
Australia (Sydpath) - Wolffian adnexal tumor
Brazil (Bahia Federal University Residents) - Sertoli cell tumor, well-differentiated
Canada (Pasqua Hospital) - Yolk sac tumor
Ireland (Bon Secours Hospital) - Clear cell carcinoma
Ireland (Kerry General Hospital) - Sertoli cell tumor
Ireland (Mayo General Hospital) - Clear cell carcinoma
Japan (Asahi General Hospital) - Clear cell carcinoma
Japan (Setagayu-Ku) - Clear cell carcinoma
Japan (University of Yamanashi) - Endometrioid borderline tumor
Japan (Wakayama Medical University) - Sertoli cell tumor
Oman (Khoula Hospital) - Clear cell carcinoma
Saudi Arabia (King Khalid University Hospital) - Sertoli cell tumor
Singapore (KTPH) - Sertoli cell tumor
Spain (Hospital Xeral de Vigo) - Clear cell adenofibroma

Case 5 - Diagnosis:

Clear cell carcinoma, ovary

Outside Consultation: - AFIP, James D. Morrissey, Col, USAF – “Adenocarcinoma, mesonephric type.”

Case 5 - References:

Cytologic features of clear cell carcinoma of the female genital tract. Diagnostic value of the "raspberry body" in nonexfoliative cytologic specimens.

Acta Cytol 2004; Jan-Feb;48(1): p47-51.

Jimenez-Heffernan JA; Vicandi B, et al.

Do clear cell ovarian carcinomas have poorer prognosis compared to other epithelial cell types? A study of 1411 clear cell ovarian cancers.

Gynecol Oncol 2008; Jun;109(3): p370-6.

Chan JK; Teoh D, et al.

Mixed ovarian epithelial carcinomas with clear cell and serous components are variants of high-grade serous carcinoma: an interobserver correlative and immunohistochemical study of 32 cases.

Am J Surg Pathol 2008; Jul;32(7): p955-64.

Han G; Gilks CB, et al.

Histologic subtypes of ovarian carcinoma: an overview.

Int J Gynecol Pathol 2008; Apr;27(2): p161-74.
Soslow RA

Ovarian metastasis from primary renal cell carcinoma: report of a case and review of literature.
Gynecol Oncol 2004; Sep;94(3): p846-9.
Valappil SV; Toon PG; Anandaram PS.

Case No. 6, Accession No. 29346

May 2014

Alameda (Alameda County Medical Center) - Juvenile granulosa cell tumor (5)
Colton (Arrowhead Medical Center) - Granulosa cell tumor, left ovary
Fontana (Kaiser Permanente) - Juvenile granulosa cell tumor
Glendale - Juvenile granulosa cell tumor
Hayward/Fremont (St. Rose Hospital) - Sclerosing stromal tumor
Long Beach (Long Beach Veterans Hospital) - Juvenile granulosa cell tumor
San Diego (Naval Medical Center) - Juvenile granulosa cell tumor
Santa Barbara (Miramonte Laboratory) - Endometrioma
Woodland Hills (Kaiser Permanente) - Juvenile granulosa cell tumor
Alabama (Cunningham Pathology) - Adult granulosa cell tumor
Arkansas (Associated Pathologists Laboratory) - Juvenile granulosa cell tumor
Colorado (Metropolitan Pathologists) - Juvenile granulosa cell tumor
Colorado (University of Colorado) - Juvenile granulosa cell tumor
Connecticut (Danbury Hospital) - Leydig cell tumor
Florida (Florida Atlantic University) - Juvenile granulosa cell tumor
Florida (GastroEnterology Associates of Ocala) - Sclerosing stromal tumor consistent with lutenized thecoma
Georgia, Atlanta - Juvenile granulosa cell tumor
Georgia (Wellstar Healthcare System) - Sex cord stromal tumor vs. thecoma (2)
Kansas (Peterson Laboratory Services) - Juvenile granulosa cell tumor
Louisiana (LSUHSC-Shreveport) - Juvenile granulosa cell tumor
Maryland (Walter Reed National Military Medical Center) - Small cell carcinoma
Michigan (University of Michigan) - Endometriotic cyst
Michigan (William Beaumont Hospital) - Juvenile granulosa cell tumor
Minnesota (Fairview Ridges Hospital) - Juvenile granulosa cell tumor
Mississippi, Hattiesburg - Steroid cell tumor, NOS
Missouri (Mercy Hospital-Joplin) - Juvenile granulosa cell tumor
Missouri (Missouri Delta Medical Center) - Granulosa cell tumor
New York (SUNY Downstate Medical Center Residents) - Juvenile granulosa cell tumor
North Carolina (Eastern Carolina Pathology Assoc.) - Steroid cell tumor, NOS
Ohio (Summa Health System) - Juvenile granulosa cell tumor
Ohio, Union Town - Juvenile granulosa cell tumor
Pennsylvania (Drexel University/Hahnemann University Hospital) - Juvenile granulosa cell tumor
Pennsylvania (Lehigh Valley Hospital) - Small cell carcinoma hypercalcemia
Puerto Rico (University of Puerto Rico) - Hemorrhagic corpus luteum vs. juvenile granulosa tumor
South Carolina (Medical University of South Carolina) - Granulosa cell tumor, juvenile
South Dakota (Sanford School of Medicine) - Follicular/luteal cysts
Texas (Anderson Cancer Center) - Hemangioma
Texas (Crystal Beach) - Granulosa cell tumor
Texas, Lubbock - Granulosa cell tumor
Texas (Scott & White Hospital Residents) - Granulosa cell tumor
Washington (Seattle VAMC) - Sex cord stromal cell neoplasm, granulosa cell, juvenile
Wisconsin, Madison - Juvenile granulosa cell tumor
Wisconsin (Medical Assessment and Consultation, S.C.) - Stromal cell tumor, NOS
Wisconsin (Medical College of Wisconsin) - Juvenile granulosa cell tumor
Australia (Royal Hobart Hospital) - Juvenile granulosa cell tumor

Australia (Sydney) - Juvenile granulosa cell tumor
Brazil (Bahia Federal University Residents) - Juvenile granulosa cell tumor
Canada (Pasqua Hospital) - Juvenile granulosa cell tumor
Ireland (Bon Secours Hospital) - Undifferentiated small cell carcinoma
Ireland (Mayo General Hospital) - Juvenile granulosa cell tumor
Japan (Asahi General Hospital) - Corpus luteum cyst
Japan (Setagayu-Ku) - PEcoma
Japan (University of Yamanashi) - Endometriotic cyst
Japan (Wakayama Medical University) - Juvenile granulosa cell tumor
Saudi Arabia (King Khalid University Hospital) - Juvenile granulosa cell tumor
Singapore (KTPH) - Juvenile granulosa cell tumor
Spain (Hospital Xeral de Vigo) - Juvenile granulosa cell tumor

Case 6 - Diagnosis:

Juvenile granulosa cell tumor, ovary

Case 6 - References:

Androgenic juvenile granulosa cell tumor of the ovary with cystic presentation: a case report.
Eur J Gynaecol Oncol 2007;;28(3): p236-8.
 Nomellini RS; Micheletti AM, et al.

Juvenile granulosa cell tumor of the ovary associated with tuberous sclerosis.
Gynecol Oncol 2006; Jul;102(1): p118-20.
 Guo H; Keefe KA, Chan JK.
 Juvenile granulosa cell tumor of the ovary in an elderly woman.
Acta Obstet Gynecol Scand 2005; Oct;84(10): p1020-1.
 Koyuncuoglu M; Sis B, et al.

Juvenile granulosa cell tumor of the testis:: contemporary clinical management and pathological diagnosis.
J Urol 2004; May;171(5): p1900-2.
 Shukla AR; Huff DS, et al.
 Clinicopathological prognostic factors of adult granulosa cell tumor of the ovary--a study of 37 cases.
Indian J Pathol Microbiol 2005; Oct;48(4): p439-43.
 Mehta H; Trivedi P, et al.

Case No. 7, Accession No. 31226

May 2014

Alameda (Alameda County Medical Center) - Adult granulosa cell tumor (5)
Colton (Arrowhead Medical Center) - Granulosa cell tumor, left ovary
Fontana (Kaiser Permanente) - Granulosa cell tumor
Glendale - Endometrioid stromal sarcoma
Hayward/Fremont (St. Rose Hospital) - Small cell carcinoma, hypercalcemic type
Long Beach (Long Beach Veterans Hospital) - Granulosa cell tumor
San Diego (Naval Medical Center) - Adult granulosa cell tumor
Santa Barbara (Miramonte Laboratory) - Granulosa cell tumor
Woodland Hills (Kaiser Permanente) - Granulosa cell tumor
Alabama (Cunningham Pathology) - Adult granulosa cell tumor
Arkansas (Associated Pathologists Laboratory) - Endometrioid stromal sarcoma
Colorado (Metropolitan Pathologists) - Adult granulosa cell tumor
Colorado (University of Colorado) - Adult granulosa cell tumor
Connecticut (Danbury Hospital) - Juvenile granuloma cell tumor
Florida (Florida Atlantic University) - Granulosa cell tumor
Florida (GastroEnterology Associates of Ocala) - Granulosa cell tumor, adult
Georgia, Atlanta - Adult granulosa cell tumor

Georgia (Wellstar Kennestone Hospital) - Granulosa cell tumor (2)
Kansas (Peterson Laboratory Services) - Fibrosarcoma
Louisiana (LSUHSC-Shreveport) - Adult granulosa cell tumor
Maryland (Walter Reed National Military Medical Center) - Adult granulosa cell tumor
Michigan (University of Michigan) - Adult granulosa cell tumor
Michigan (William Beaumont Hospital) - Adult granulosa cell tumor
Minnesota (Fairview Ridges Hospital) - Adult granulosa cell tumor
Mississippi, Hattiesburg - Granulosa-stromal cell tumor with features of an adult granulosa
Missouri (Mercy Hospital-Joplin) - Cellular fibroma
Missouri (Missouri Delta Medical Center) - Granulosa cell tumor, diffuse
New York (SUNY Downstate Medical Center Residents) - Granulosa cell tumor, adult type
North Carolina (Eastern Carolina Pathology Assoc.) - Adult type granulosa cell tumor
Ohio (Summa Health System) - Adult granulosa cell tumor (3); Malignant Brenner tumor (1); Poorly differentiated thyroid carcinoma of ovary (1); Undifferentiated sex cord-stromal tumor (2)
Ohio, Union Town - Granulosa cell tumor
Pennsylvania (Drexel University/Hahnemann University Hospital) - Granulosa cell tumor
Pennsylvania (Lehigh Valley Hospital) - Adult granulosa cell tumor
Puerto Rico (University of Puerto Rico) - Cellular fibroma vs. sertoli-leydig tumor
South Carolina (Medical University of South Carolina) - Granulosa cell tumor, adult
South Dakota (Sanford School of Medicine) - Luteinized thecoma associated with sclerosing peritonitis
Texas (Anderson Cancer Center) - Granulosa cell tumor
Texas (Crystal Beach) - Carcinoid
Texas, Lubbock - Granulosa cell tumor
Texas (Scott & White Hospital Residents) - Granulosa cell tumor
Washington (Seattle VAMC) - Sex cord stromal cell neoplasm, granulosa cell (inhibin)
Wisconsin, Madison - Adult granulosa cell tumor
Wisconsin (Medical Assessment and Consultation, S.C.) - Adult granulosa cell neoplasm (tumor)
Wisconsin (Medical College of Wisconsin) - Granulosa cell tumor
Australia (Royal Hobart Hospital) - Adult granulosa cell tumor
Australia (Sydney) - Granulosa cell tumor
Brazil (Bahia Federal University Residents) - Adult granulosa cell tumor, diffuse pattern, poorly differentiated
Canada (Pasqua Hospital) - Granulosa cell tumor
Ireland (Bon Secours Hospital) - Granulosa cell tumor
Ireland (Kerry General Hospital) - Carcinoid tumor
Ireland (Mayo General Hospital) - Granulosa cell tumor
Japan (Asahi General Hospital) - Adult granulosa cell tumor
Japan (Setagaya-Ku) - Small cell carcinoma
Japan (University of Yamanashi) - Granulosa cell tumor
Japan (Wakayama Medical University) - Adult granulosa cell tumor
Oman (Khoulia Hospital) - Granulosa cell tumor
Saudi Arabia (King Khalid University Hospital) - Adult granulosa cell tumor
Singapore (KTPH) - Adult granulosa cell tumor
Spain (Hospital Xeral de Vigo) - Sex cord stromal tumor

Case 7 - Diagnosis:

Adult granulosa cell tumor, ovary

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, et al.

Adult granulosa cell tumor of the testicle.
Can J Urol 2013; Feb;20(1): p6640-2.
 Norman RW; Sheridan-Jonah A, et al.

Adult granulosa cell tumor presenting as metastases to the pleural and peritoneal cavity.
Diagn Cytopathol 2012; Oct;40(10): p912-5.
Gupta N; Rajwanshi A, et al.

Adult testicular granulosa cell tumor: a review of the literature for clinicopathologic predictors of malignancy.
Arch Pathol Lab Med 2011; Jan;135(1): p143-6.
Hanson JA; Ambaye AB.

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.

Case No. 8, Accession No. 31676

May 2014

Alameda (Alameda County Medical Center) - Serous cystadenoma (5)
Colton (Arrowhead Medical Center) - Cystadenoma, left ovary
Fontana (Kaiser Permanente) - Benign serous cyst
Glendale - Serous cystadenoma
Hayward/Fremont (St. Rose Hospital) - Serous cystoma
Long Beach (Long Beach Veterans Hospital) - Papillary serous cyst adenoma
San Diego (Naval Medical Center) - Serous cystadenoma
Santa Barbara (Miramonte Laboratory) - Serous cystadenoma
Woodland Hills (Kaiser Permanente) - Serous cystadenoma
Alabama (Cunningham Pathology) - Serous cystadenoma
Arkansas (Associated Pathologists Laboratory) - Serous cystadenoma
Colorado (Metropolitan Pathologists) - Mesothelial inclusion cyst
Colorado (University of Colorado) - Benign serous cysts
Connecticut (Danbury Hospital) - Serous cystadenoma
Florida (Florida Atlantic University) - Serous cyst with tubal epithelium
Florida (GastroEnterology Associates of Ocala) - Papillary serous cystadenoma
Georgia, Atlanta - Serous cystadenoma
Georgia (Wellstar Kennestone Hospital) - Serous cystadenoma (2)
Kansas (Peterson Laboratory Services) - Serous cystadenoma
Louisiana (LSUHSC-Shreveport) - Cystadenofibroma
Maryland (Walter Reed National Military Medical Center) - Endosalpingiosis
Michigan (University of Michigan) - Serous cystadenoma
Michigan (William Beaumont Hospital) - Serous cystadenoma
Minnesota (Fairview Ridges Hospital) - Benign serous cystic tumor
Mississippi, Hattiesburg - Serous cystadenoma
Missouri (Mercy Hospital-Joplin) - Serous cystadenoma, rule out borderline, low grade tumor
Missouri (Missouri Delta Medical Center) - Benign serous cystadenoma
New York (SUNY Downstate Medical Center Residents) - Serous cystadenoma
North Carolina (Eastern Carolina Pathology Assoc.) - Serous cystadenoma
Ohio (Summa Health System) - Serous cystadenoma
Ohio, Union Town - Serous cystadenoma
Pennsylvania (Drexel University/Hahnemann University Hospital) - Serous cystadenoma
Pennsylvania (Lehigh Valley Hospital) - Serous cystadenoma
Puerto Rico (University of Puerto Rico) - Serous cystadenoma vs. rete cyst
South Carolina (Medical University of South Carolina) - Serous cystadenoma
South Dakota (Sanford School of Medicine) - Serous cystadenoma
Texas (Anderson Cancer Center) - Polycystic ovaries
Texas (Crystal Beach) - Serous cystadenoma
Texas, Lubbock - Serous cystadenofibroma
Texas (Scott & White Hospital Residents) - Serous cystadenoma
Washington (Seattle VAMC) - Serous cell neoplasm, cystadenoma

Wisconsin, Madison - Serous cystadenoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Benign serous cystadenoma
Wisconsin (Medical College of Wisconsin) - Rete cyst
Australia (Royal Hobart Hospital) - Paratubal mullerian cyst
Australia (Sydney) - Paratubal cyst
Brazil (Bahia Federal University Residents) - Serous cystadenoma
Canada (Pasqua Hospital) - Serous cystadenoma
Ireland (Bon Secours Hospital) - Serous cystadenoma
Ireland (Kerry General Hospital) - Mullerian cysts
Ireland (Mayo General Hospital) - Serous cystadenoma, benign
Japan (Asahi General Hospital) - Serous cystadenoma
Japan (Setagaya-Ku) - Mucinous cystadenoma
Japan (University of Yamanashi) - Serous cystadenoma
Japan (Wakayama Medical University) - Serous borderline tumor
Oman (Khoula Hospital) - Benign serous cystadenoma
Saudi Arabia (King Khalid University Hospital) - Paratubal/paraovarian benign cyst
Singapore (KTPH) - Benign serous cystadenoma (adenofibroma)
Spain (Hospital Xeral de Vigo) - Serous cystadenoma

Case 8 - Diagnosis:

Serous cystadenoma, ovary

Case 8 - References:

Florid cystic endosalpingiosis with extensive peritoneal involvement and concurrent bilateral ovarian serous cystadenoma.

J Obstet Gynaecol 2011; Nov;31(8): p773-4.

Patonay B; Semer D; Hong H.

Serous cystadenoma with massive ovarian edema. A case report and review of the literature.

Clin Exp Obstet Gynecol 2009;36(1): p58-61.

Diamantopoulou S; Sikiotis K, et al.

New insights into the pathogenesis of serous ovarian cancer and its clinical impact.

J Clin Oncol 2008; Nov 10;26(32): p5284-93.

Levanon K; Crum C; Drapkin R.

Case No. 9, Accession No. 31677

May 2014

Alameda (Alameda County Medical Center) - Serous papillary neoplasm, borderline (5)
Colton (Arrowhead Medical Center) - Borderline serous cystadenoma, right ovary
Fontana (Kaiser Permanente) - Serous borderline tumor
Glendale - Serous tumor of LMP with microinvasion
Hayward/Fremont (St. Rose Hospital) - Serous borderline tumor
Long Beach (Long Beach Veterans Hospital) - Papillary serous cyst adenoma LMP
San Diego (Naval Medical Center) - Serous borderline tumor
Santa Barbara (Miramonte Laboratory) - Borderline papillary serous cystadenoma
Woodland Hills (Kaiser Permanente) - Serous cystadenoma
Alabama (Cunningham Pathology) - Borderline serous tumor
Arkansas (Associated Pathologists Laboratory) - Serous borderline tumor
Colorado (Metropolitan Pathologists) - Micropapillary serous adenocarcinoma
Colorado (University of Colorado) - Serous borderline tumor
Connecticut (Danbury Hospital) - Borderline serous cystadenoma
Florida (Florida Atlantic University) - Borderline serous tumor
Florida (GastroEnterology Associates of Ocala) - Mucinous cystic neoplasm

Georgia, Atlanta - Serous borderline tumor
Georgia (Wellstar Kennestone Hospital) - Serous borderline tumor (2)
Kansas (Peterson Laboratory Services) - Serous borderline tumor
Louisiana (LSUHSC-Shreveport) - Serous papillary cystic tumor
Maryland (Walter Reed National Military Medical Center) - Serous borderline tumor
Michigan (University of Michigan) - Serous borderline tumor
Michigan (William Beaumont Hospital) - Serous borderline tumor
Minnesota (Fairview Ridges Hospital) - Papillary serous tumor, borderline
Mississippi, Hattiesburg - Atypical proliferative (borderline) serous tumor with microinvasion
Missouri (Mercy Hospital-Joplin) - Serous borderline tumor with micropapillary pattern
Missouri (Missouri Delta Medical Center) - Low grade serous carcinoma
New York (SUNY Downstate Medical Center Residents) - Borderline serous tumor with microinvasion
North Carolina (Eastern Carolina Pathology Assoc.) - Serous borderline tumor
Ohio (Summa Health System) - Borderline serous tumor
Ohio, Union Town - Proliferating serous tumor
Pennsylvania (Drexel University/Hahnemann University Hospital) - Serous borderline tumor with focal micropapillary features
Pennsylvania (Lehigh Valley Hospital) - Serous cystic neoplasm
Puerto Rico (University of Puerto Rico) - Borderline serous cystadenoma, micropapillary type
South Carolina (Medical University of South Carolina) - Serous borderline with micropapillary features
South Dakota (Sanford School of Medicine) - Serous borderline tumor
Texas (Anderson Cancer Center) - Micropapillary serous tumor
Texas (Crystal Beach) - Serous papillary cystic tumor, borderline
Texas, Lubbock - Serous tumor, borderline
Texas (Scott & White Hospital Residents) - Borderline serous tumor
Washington (Seattle VAMC) - Serous cell neoplasm, borderline
Wisconsin, Madison - Borderline serous tumor
Wisconsin (Medical Assessment and Consultation, S.C.) - Serous cystadenoma, low malignant potential
Wisconsin (Medical College of Wisconsin) - Serous borderline tumor with microinvasion
Australia (Royal Hobart Hospital) - Serous borderline tumor, ovary
Australia (Sydney) - Borderline serous cystadenoma with microinvasion
Brazil (Bahia Federal University Residents) - Atypical proliferative (borderline) serous tumor
Canada (Pasqua Hospital) - Serous borderline tumor
Ireland (Bon Secours Hospital) - Borderline serous tumor
Ireland (Kerry General Hospital) - Serous borderline tumor of ovary
Ireland (Mayo General Hospital) - Serous cystadenoma, borderline
Japan (Asahi General Hospital) - Serous borderline tumor
Japan (Setagayu-Ku) - Mucinous borderline tumor
Japan (University of Yamanashi) - Serous borderline tumor
Japan (Wakayama Medical University) - Serous borderline tumor with micropapillary features
Oman (Khoula Hospital) - Borderline mixed serous and mucinous cystadenoma
Saudi Arabia (King Khalid University Hospital) - Borderline serous tumor of ovary
Singapore (KTPH) - Borderline serous cystadenoma
Spain (Hospital Xeral de Vigo) - Borderline serous tumor with microinvasion

Case 9 - Diagnosis:

Serous borderline tumor (borderline serous cystadenoma), ovary

Case 9 - 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 borderline tumor of the ovary presenting with cervical lymph node involvement: a report of 3 cases.
Am J Surg Pathol 2006; Jun;30(6): p739-43.
Verbruggen MB; Verheijen RH, et al.

Serous borderline tumours of the ovary.
Histopathology 2005; Sep;47(3): p310-5.
Kurman RJ; Seidman JD; Shih IM.

Serous and mucinous borderline (low malignant potential) tumors of the ovary.
Am J Clin Pathol 2005; Jun;123 Suppl:S13-57.
Acs G.

Case No. 10, Accession No. 31589

May 2014

Alameda (Alameda County Medical Center) - Cystic mucinous cystadenoma, borderline features (5)
Colton (Arrowhead Medical Center) - Borderline mucinous cystadenoma, right ovary
Fontana (Kaiser Permanente) - Mucinous borderline tumor
Glendale - Seromucinous tumor of LMP
Hayward/Fremont (St. Rose Hospital) - Mucinous borderline tumor
Long Beach (Long Beach Veterans Hospital) - Papillary mucinous cyst adenoma LMP
San Diego (Naval Medical Center) - Mucinous borderline tumor, endocervical type
Santa Barbara (Miramonte Laboratory) - Borderline papillary mucinous cystadenoma
Woodland Hills (Kaiser Permanente) - Borderline mucinous tumor
Alabama (Cunningham Pathology) - Mixed serous mucinous borderline tumor
Arkansas (Associated Pathologists Laboratory) - Mucinous cystadenoma
Colorado (Metropolitan Pathologists) - Mucinous borderline tumor
Colorado (University of Colorado) - Mucinous borderline tumor, endocervical type
Connecticut (Danbury Hospital) - Borderline mucinous cystadenoma
Florida (Florida Atlantic University) - Borderline mucinous tumor
Florida (GastroEnterology Associates of Ocala) - Mucinous cyst adenoma
Georgia, Atlanta - Mucinous borderline tumor, endocervical type
Georgia (Wellstar Kennestone Hospital) - Mucinous borderline tumor (2)
Kansas (Peterson Laboratory Services) - Mucinous borderline tumor with intraepithelial carcinoma
Louisiana (LSUHSC-Shreveport) - Serous papillary cystic tumor
Maryland (Walter Reed National Military Medical Center) - Mucinous borderline tumor
Michigan (University of Michigan) - Mucinous cystadenoma
Michigan (William Beaumont Hospital) - Mucinous borderline tumor
Minnesota (Fairview Ridges Hospital) - Mucinous cystic tumor, endocervical type, borderline
Mississippi, Hattiesburg - Atypical proliferative (borderline) mucinous tumor
Missouri (Mercy Hospital-Joplin) - Mucinous borderline tumor
Missouri (Missouri Delta Medical Center) - Serous tumor, borderline
New York (SUNY Downstate Medical Center Residents) - Borderline mucinous tumor
North Carolina (Eastern Carolina Pathology Assoc.) - Mucinous papillary cystadenoma
Ohio (Summa Health System) - Borderline seromucinous tumor
Ohio, Union Town - Proliferating mucinous tumor
Pennsylvania (Drexel University/Hahnemann University Hospital) - Borderline seromucinous tumor
Pennsylvania (Lehigh Valley Hospital) - Mucinous cystic neoplasm
Puerto Rico (University of Puerto Rico) - Borderline mucinous cystadenoma
South Carolina (Medical University of South Carolina) - Mucinous cystadenoma
South Dakota (Sanford School of Medicine) - Mucinous borderline tumor
Texas (Anderson Cancer Center) - Borderline mucinous tumor
Texas (Crystal Beach) - Papillary mucinous tumor, borderline
Texas, Lubbock - Mucinous tumor, borderline
Texas (Scott & White Hospital Residents) - Borderline mucinous tumor

Washington (Seattle VAMC) - Mucinous cell neoplasm, borderline
Wisconsin, Madison - Borderline mucinous tumor
Wisconsin (Medical Assessment and Consultation, S.C.) - Mucinous cystadenoma, low malignant potential
Wisconsin (Medical College of Wisconsin) - Seromucinous cystadenoma
Australia (Royal Hobart Hospital) - Endocervical type of mucinous borderline tumor
Australia (Sydney) - Mucinous borderling cystic tumor
Brazil (Bahia Federal University Residents) - Atypical proliferative (borderline) seromucinous tumor (endocervical-type)
Canada (Pasqua Hospital) - Mucinous borderline tumor
Ireland (Bon Secours Hospital) - Borderline mucinous tumor
Ireland (Kerry General Hospital) - Endocervical-like mucinous borderline tumor
Ireland (Mayo General Hospital) - Mucinous cystadenoma (focal borderline)
Japan (Asahi General Hospital) - Mucinous borderline tumor, endocervical-like
Japan (Setagayu-Ku) - Mucinous borderline tumor
Japan (University of Yamanashi) - Mucinous borderline tumor
Japan (Wakayama Medical University) - Mucinous borderline tumor
Oman (Khoulal Hospital) - Borderline mucinous cystadenoma
Saudi Arabia (King Khalid University Hospital) - Borderline mucinous tumor of ovary, endocervical type
Singapore (KTPH) - Borderline mucinous cystadenoma
Spain (Hospital Xeral de Vigo) - Mucinous cystadenoma

Case 10 - Diagnosis:

Seromucinous borderline tumor (endocervical type), ovary

Case 10 - References:

Serous and seromucinous infantile ovarian cystadenomas--a study of 42 cases.

Eur J Obstet Gynecol Reprod Biol 2009; Jan;142(1): p64-7.

Massicot R; Rousseau V, et al.

High-grade ovarian serous carcinoma exhibits significantly higher p16 expression than low-grade serous carcinoma and serous borderline tumour.

Histopathology 2007; May;50(6): p773-9.

O'Neill CJ; McBride HA, et al.

Histologic subtypes of ovarian carcinoma: an overview.

Int J Gynecol Pathol 2008; Apr;27(2): p161-74.

Soslow RA.

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, et al.

Endocervical-type mucinous borderline tumors are related to endometrioid tumors based on mutation and loss of expression of ARID1A.

Int J Gynecol Pathol 2012; Jul;31(4): p297-303.

Wu CH; Mao TL, 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.