



CALIFORNIA
TUMOR TISSUE REGISTRY

GYNECOLOGY PATHOLOGY

Minutes – Subscription B

November 2013



SUGGESTED READING (General Topics from Recent Literature):

HER2 Testing of Multifocal Invasive Breast Carcinoma. How Many Blocks Are Enough? *Am J Clin Pathol* 2013; 140:588-592. Bethune GC, Mullen JB and Chang MC.

The Impact of Implementing the Bethesda System for Reporting the Thyroid FNA at an Academic Center. *Diagn Cytopathol* 2013; 41:858-863. Theoharis C, Adeniran AJ, et al.

Value of Additional Level Sections in the Evaluation of Lymph Nodes for Endometrial Carcinoma Staging. *Am J Clin Pathol* 2013; 140:516-518. Schmolze D and Awtrey CS.

Prognostic Significance of Histopathological Features of Extraprostatic Extension of Prostate Cancer. *Histopathol* 2013; 63:580-589. Danneman D, Wiklund F, et al.

An Immunohistochemical Panel to Distinguish Ovarian From uterine Serous Papillary Carcinomas. *Int J Gynecol Pathol* 2013; 32:476-481. Zhang Y, Garcia-Buitrango MT, et al.

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FILE DIAGNOSES

CTTR Subscription B

November 2013

Case 1:

Pleomorphic leiomyosarcoma, uterus

Case 2:

Epithelioid leiomyosarcoma, uterus

Case 3:

Adenosarcoma, uterus

Case 4:

Dysgerminoma, ovary

Case 5:

Immature teratoma, ovary

Case 6:

Steroid cell tumor (nos), ovary

Case 7:

Mixed germ cell tumor (dysgerminoma and yolk sac tumor), ovary

Case 8:

Mucinous adenocarcinoma, uterus

Case 9:

Metastatic adenocarcinoma to ovary, primary site unknown

Case 10:

Endometrial adenocarcinoma, uterus

Glendale - Leiomyosarcoma
Orange (UCI Medical Center Residents) - Smooth muscle tumor of uncertain malignant potential
San Diego (Naval Medical Center Residents) - Symplastic leiomyoma
Delaware (Armed Forces Medical Examiner System) - Placental site trophoblastic tumor
Georgia, Atlanta - Symplastic leiomyoma
Illinois, Oak Brook - Bizarre leiomyoma
Illinois (Heartland Regional Medical Center) - Leiomyosarcoma
Kansas (Peterson Laboratory Services) - Atypical leiomyoma
Michigan (University of Michigan) - Leiomyosarcoma
Mississippi (University of Mississippi Medical Center) - Leiomyosarcoma
New York (SUNY Downstate) - Symplastic/bizarre leiomyoma
Ohio (Cleveland Clinic) - Stromal tumor of undetermined malignant potential
Oregon (Oregon Health and Science University Residents) - Leiomyosarcoma
Pennsylvania (Drexel University College of Medicine Residents) - Leiomyosarcoma
Pennsylvania (Wilkes-Barre General Hospital) - Symplastic leiomyoma
Tennessee, Knoxville - Placental site trophoblastic tumor
Wisconsin (Medical Assessment and Consultation, S.C.) - Benign bizarre leiomyoma
Wisconsin (Medical College of Wisconsin) - Placental site trophoblastic tumor
Canada (Pasqua Hospital) - Atypical leiomyoma
Ireland (Connelly Hospital) - Symplastic/atypical leiomyoma
Japan (Asahi General Hospital) - Atypical leiomyoma (1); Bizarre leiomyoma (1)
Puerto Rico (UPR Pathology Residents) - STUMP vs. leiomyosarcoma
United Kingdom (John Radcliffe Hospital) - Leiomyosarcoma

Case 1 - Diagnosis:

Pleomorphic leiomyosarcoma, uterus

Director's note: Atypical mitotic figures are present. If there were no or minimal mitotic activity, symplastic leiomyoma would be favored. (drc)

Outside Consultation: Stanford University Medical Center, "Symplastic leiomyoma."

Case 1 - References:

Pleomorphic rhabdomyosarcoma of the uterine corpus: a clinicopathologic study of 4 cases and a review of the literature.

Int J Gynecol Pathol 2010; Mar;29(2): p122-34.

Fadare O; Bonvicino A, et al.

Pleomorphic and dedifferentiated leiomyosarcoma: clinicopathologic and immunohistochemical study of 41 cases.

Hum Pathol 2010; May;41(5): p663-71.

Nicolas MM; Tamboli P, et al.

Pleomorphic liposarcoma of the uterus: case report and literature review.

Int J Gynecol Pathol 2003; Oct;22(4): p407-11.

Levine PH; Wei XJ, et al.

Pathologic quiz case: a 40-year-old woman with a large pelvic mass, ascites, massive right hydrothorax, and elevated CA 125. Uterine symplastic leiomyoma associated with pseudo-Meigs syndrome and elevated CA 125.

Arch Pathol Lab Med 2004; Aug;128(8): p933-4.

Weinrach DM; Wang KL, et al.

Glendale - Epithelioid leiomyosarcoma
Orange (UCI Medical Center Residents) - Epithelioid leiomyosarcoma
San Diego (Naval Medical Center Residents) - Epithelioid leiomyosarcoma
Delaware (Armed Forces Medical Examiner System) - Epithelioid leiomyoma
Georgia, Atlanta - Epithelioid leiomyosarcoma
Illinois, Oak Brook - Endometrial stromal sarcoma LG
Illinois (Heartland Regional Medical Center) - Epithelioid leiomyosarcoma
Kansas (Peterson Laboratory Services) - Epithelioid leiomyosarcoma
Michigan (University of Michigan) - Epithelioid leiomyoma
Mississippi (University of Mississippi Medical Center) - Epithelioid leiomyosarcoma
New York (SUNY Downstate) - Leiomyosarcoma
Ohio (Cleveland Clinic) - Perivascular epithelioid cell tumor
Oregon (Oregon Health and Science University Residents) - Endometrial stromal sarcoma
Pennsylvania (Drexel University College of Medicine Residents) - Endometrial stromal sarcoma, low grade
Pennsylvania (Wilkes-Barre General Hospital) - Epithelioid leiomyoma
Tennessee, Knoxville - Epithelioid leiomyosarcoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Epithelioid leiomyoma (leiomyoblastoma)
Wisconsin (Medical College of Wisconsin) - PEComa vs. epithelioid leiomyoma
Canada (Pasqua Hospital) - Epithelioid leiomyoma
Ireland (Connelly Hospital) - Decidualization of the stroma
Japan (Asahi General Hospital) - Epithelioid leiomyoma (1); Leiomyosarcoma (1)
Puerto Rico (UPR Pathology Residents) - Epithelioid leiomyosarcoma
United Kingdom (John Radcliffe Hospital) - Epithelioid leiomyoma

Case 2 - Diagnosis:

Epithelioid leiomyosarcoma, uterus

Director's note. Sarcoma is favored over leiomyoma due to the high mitotic rate and the presence of atypical mitotic figures. (drc)

Outside Consultation: AFIP (2000): Epithelioid smooth muscle tumor of uncertain malignant potential (STUMP)

Case 2 - References:

Uterine epithelioid leiomyosarcomas with clear cells: reactivity with HMB-45 and the concept of PEComa.
Am J Surg Pathol 2004; Feb;28(2): p244-9.
Silva EG; Deavers MT, et al.

Perivascular Epithelioid Cell Tumors (PEComas) and Smooth Muscle Tumors of the Uterus.
Am J Surg Pathol 2007; Sep;31(9): p1454-5; author reply 1455-6.
Fadare O.

Leiomyosarcoma of the cervix.
Gynecol Oncol 2003 Dec;91(3): p636-42.
Irvin W; Presley A, et al.

Cytological diagnosis of metastatic epithelioid leiomyosarcoma to lymph node--a diagnostic dilemma.
Cytopathology 2003; Dec;14(6): p351-2.
Mohanty SK; Dey P; Kumari N.

Glendale - Adenosarcoma
Orange (UCI Medical Center Residents) - Adenosarcoma
San Diego (Naval Medical Center Residents) - Adenosarcoma
Delaware (Armed Forces Medical Examiner System) - Adenosarcoma, low grade
Georgia, Atlanta - Adenosarcoma
Illinois, Oak Brook - Adenosarcoma
Illinois (Heartland Regional Medical Center) - Adenosarcoma
Kansas (Peterson Laboratory Services) - Adenosarcoma
Michigan (University of Michigan) - Adenosarcoma
Mississippi (University of Mississippi Medical Center) - Adenosarcoma with sarcomatous overgrowth
New York (SUNY Downstate) - Adenosarcoma
Ohio (Cleveland Clinic) - Adenosarcoma
Oregon (Oregon Health and Science University Residents) - Low grade mullerian adenosarcoma, endometrial polyp
Pennsylvania (Drexel University College of Medicine Residents) - Adenosarcoma
Pennsylvania (Wilkes-Barre General Hospital) - Atypical polypoid adenomyoma, LUS
Tennessee, Knoxville - Mullerian adenosarcoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Benign adenomyoma of uterus
Wisconsin (Medical College of Wisconsin) - Adenosarcoma
Canada (Pasqua Hospital) - Adenosarcoma
Ireland (Connelly Hospital) - Mullerian adenosarcoma
Japan (Asahi General Hospital) - Adenosarcoma (1); Endometrial carcinoma (1)
Puerto Rico (UPR Pathology Residents) - Adenosarcoma
United Kingdom (John Radcliffe Hospital) - Adenosarcoma

Case 3 - Diagnosis:

Adenosarcoma, uterus

Case 3 - References:

Adenosarcoma of an endometrial polyp in a 27-year-old nulligravida: a case report.
J Reprod Med 2007; Apr;52(4): p326-8.
Abu J; Ireland D; Brown L.

Adenosarcoma arising in inguinal endometriosis.
Obstet Gynecol 2006; Sep;108(3 Pt 2): p753-5.
Milam MR; Atkinson JB; Currie JL.

Uterine adenosarcoma detected by Papanicolaou smear: a case report.
Diagn Cytopathol 2006; Jul;34(7): p495-8.
Pasternak S; MacIntosh R.

Mullerian adenosarcoma of the uterus with heterologous elements: two case reports and literature review.
Arch Gynecol Obstet 2012; Aug;286(2): p537-40.
Xie YP; Yao HX; Shen YM.

Long-term outcome and natural history of uterine adenosarcomas.
Gynecol Oncol 2010; Nov;119(2): p305-8.
Arend R; Bagaria M, et al.

Mullerian adenosarcoma: a clinicopathologic and immunohistochemical study of 55 cases challenging the existence of adenofibroma.
Am J Surg Pathol 2009; Feb;33(2): p278-88.
Gallardo A; Prat J.

Mullerian adenosarcomas: an immunophenotypic analysis of 35 cases.

Am J Surg Pathol 2008; Jul;32(7): p1013-21.
Soslow RA; Ali A; Oliva E.

Case No. 4, Accession No. 24220

November 2013

Glendale - Dysgerminoma
Orange (UCI Medical Center Residents) - Dysgerminoma
San Diego (Naval Medical Center Residents) - Dysgerminoma
Delaware (Armed Forces Medical Examiner System) - Dysgerminoma
Georgia, Atlanta - Dysgerminoma
Illinois, Oak Brook - Dysgerminoma
Illinois (Heartland Regional Medical Center) - Dysgerminoma
Kansas (Peterson Laboratory Services) - Dysgerminoma
Michigan (University of Michigan) - Dysgerminoma
Mississippi (University of Mississippi Medical Center) - Dysgerminoma
New York (SUNY Downstate) - Dysgerminoma
Ohio (Cleveland Clinic) - Dysgerminoma
Oregon (Oregon Health and Science University Residents) - Dysgerminoma
Pennsylvania (Drexel University College of Medicine Residents) - Dysgerminoma
Pennsylvania (Wilkes-Barre General Hospital) - Dysgerminoma, ovary
Tennessee, Knoxville - Dysgerminoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Dysgerminoma
Wisconsin (Medical College of Wisconsin) - Dysgerminoma
Canada (Pasqua Hospital) - Dysgerminoma
Ireland (Connelly Hospital) - Dysgerminoma
Japan (Asahi General Hospital) - Dysgerminoma (2)
Puerto Rico (UPR Pathology Residents) - Dysgerminoma
United Kingdom (John Radcliffe Hospital) - Dysgerminoma

Case 4 - Diagnosis:

Dysgerminoma, ovary

Case 4 - References:

Pure dysgerminoma of the ovary 35 years on: a single institutional experience.
Gynecol Oncol 2010; Apr;117(1): p23-6.
Vicus D; Beiner ME, et al.

Malignant germ cell tumors of the ovary: a review of 41 cases and risk factors for recurrence.
Eur J Gynaecol Oncol 2008;;29(6): p635-7.
Topuz S; Iyibozkurt AC, 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.

Immunohistochemistry diagnosis of an ovarian dysgerminoma in one bitch.
Reprod Domest Anim 2009; Oct;44(5): p855-8.
Park JK; Goo MJ, et al.

Glendale - Mucinous carcinoma with sarcomatous elements
Orange (UCI Medical Center Residents) - Teratocarcinoma
San Diego (Naval Medical Center Residents) - Immature teratoma
Delaware (Armed Forces Medical Examiner System) - Carcinosarcoma
Georgia, Atlanta - Immature teratoma
Illinois, Oak Brook - Immature teratoma
Illinois (Heartland Regional Medical Center) - Immature teratoma
Kansas (Peterson Laboratory Services) - Immature teratoma
Michigan (University of Michigan) - Immature teratoma
Mississippi (University of Mississippi Medical Center) - Immature teratoma
New York (SUNY Downstate) - Carcinosarcoma
Ohio (Cleveland Clinic) - Carcinosarcoma arising in a malignant mixed mullerian tumor
Oregon (Oregon Health and Science University Residents) - High grade immature teratoma
Pennsylvania (Drexel University College of Medicine Residents) - Immature teratoma
Pennsylvania (Wilkes-Barre General Hospital) - Embryonal carcinoma with immature teratoma (teratocarcinoma)
Tennessee, Knoxville - Immature teratoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Ovarian immature teratoma
Wisconsin (Medical College of Wisconsin) - Immature teratoma
Canada (Pasqua Hospital) - Immature teratoma
Ireland (Connelly Hospital) - Carcinosarcoma
Japan (Asahi General Hospital) - Immature teratoma (2)
Puerto Rico (UPR Pathology Residents) - Immature teratoma, grade 2
United Kingdom (John Radcliffe Hospital) - Immature teratoma

Case 5 - Diagnosis:

Immature teratoma, ovary

Case 5 - References:

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; Nagane M; Fujioka Y.

Imprint cytology of high-grade immature ovarian teratoma: a case report, literature review, and distinction from other ovarian small round cell tumors.

Diagn Cytopathol 2008; Aug;36(8): p595-9.

Ramalingam P; Teague D; Reid-Nicholson M.

Immature teratoma of the ovary: a clinicopathological study of 28 cases.

Indian J Pathol Microbiol 2011; Oct-Dec;54(4): p730-5.

Deodhar KK; Suryawanshi P; Shah M; Rekhi B; Chinoy RF.

Soft tissue metastasis of an immature teratoma of the ovary.

J Obstet Gynaecol Res 2011; Nov;37(11): p1689-93.

Byun JC; Choi IJ; Han MS; Lee SC; Roh MS; Cha MS.

Clinical characteristics of ovarian teratoma: age-focused retrospective analysis of 580 cases.

Am J Obstet Gynecol 2011; Jul;205(1): p32.e1-4.

Kim MJ; Kim NY; Lee DY; Yoon BK; Choi D.

What is your diagnosis? Peritoneal fluid from a 1-year-old female German Shepherd dog. Malignant teratoma.

Vet Clin Pathol 2010; Sep;39(3): p393-4.

Elena Gorman M; Bildfell R; Seguin B.

Glendale - Steroid cell tumor
Orange (UCI Medical Center Residents) - Thecoma
San Diego (Naval Medical Center Residents) - Sclerosing stromal tumor
Delaware (Armed Forces Medical Examiner System) - Luteinized thecoma
Georgia, Atlanta - Signet ring stromal tumor
Illinois, Oak Brook - Steroid tumor
Illinois (Heartland Regional Medical Center) - Sclerosing stromal tumor
Kansas (Peterson Laboratory Services) - Steroid cell tumor, NOS
Michigan (University of Michigan) - Sclerosing stromal cell tumor
Mississippi (University of Mississippi Medical Center) - Steroid cell tumor
New York (SUNY Downstate) - Luteinized thecoma
Ohio (Cleveland Clinic) - Steroid cell tumor
Oregon (Oregon Health and Science University Residents) - Luteinized sex cord stromal tumor
Pennsylvania (Drexel University College of Medicine Residents) - Steroid cell tumor
Pennsylvania (Wilkes-Barre General Hospital) - Steroid cell tumor, NOS, ovary
Tennessee, Knoxville - Sclerosing stromal tumor
Wisconsin (Medical Assessment and Consultation, S.C.) - Sclerosing stromal tumor
Wisconsin (Medical College of Wisconsin) - Sex-cord stromal tumor (sclerosing stromal tumor vs. steroid cell tumor vs. luteinized thecoma)
Canada (Pasqua Hospital) - Sclerosing stromal tumor
Ireland (Connelly Hospital) - Sex cord stromal tumor
Japan (Asahi General Hospital) - Steroid tumor, NOS (1); Thecoma (1)
Puerto Rico (UPR Pathology Residents) - Steroid cell tumor vs. luteinized thecoma
United Kingdom (John Radcliffe Hospital) - Steroid cell tumor

Case 6 - Diagnosis:

Steroid cell tumor (nos), ovary

Case 6 - References:

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 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.

Steroid cell tumor, NOS, of ovary.

Indian J Pathol Microbiol 2008; Jul-Sep;51(3): p461.

Flynn A; Ravindranath S.

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.

Glendale - Yolk sac tumor

Orange (UCI Medical Center Residents) - Mixed germ cell tumor

San Diego (Naval Medical Center Residents) - Mixed germ cell tumor

Delaware (Armed Forces Medical Examiner System) - Mixed germ cell tumor

Georgia, Atlanta - Mixed dysgerminoma, yolk sac tumor

Illinois, Oak Brook - Mixed germ cell (dysgerminoma + CC)

Illinois (Heartland Regional Medical Center) - Malignant mixed germ cell neoplasm (yolk sac tumor and dysgerminoma)

Kansas (Peterson Laboratory Services) - Mixed embryonal and yolk sac tumor

Michigan (University of Michigan) - Mixed germ cell tumor, dysgerminoma and yolk sac tumor

Mississippi (University of Mississippi Medical Center) - Yolk sac tumor

New York (SUNY Downstate) - Mixed germ cell tumor (yolk sac + dysgerminoma)

Ohio (Cleveland Clinic) - Mixed germ cell tumor with seminoma and yolk sac tumor

Oregon (Oregon Health and Science University Residents) - Yolk sac tumor

Pennsylvania (Drexel University College of Medicine Residents) - Mixed germ-cell tumor

Pennsylvania (Wilkes-Barre General Hospital) - Mixed germ cell tumor with dysgerminoma and yolk sac tumor

Tennessee, Knoxville - Dysgerminoma and yolk sac tumor

Wisconsin (Medical Assessment and Consultation, S.C.) - Yolk sac neoplasm tumor

Wisconsin (Medical College of Wisconsin) - Mixed germ cell tumor (yolk sac tumor + dysgerminoma)

Canada (Pasqua Hospital) - Yolk sac tumor and dysgerminoma

Ireland (Connelly Hospital) - Germ cell tumor with yolk sac

Japan (Asahi General Hospital) - Mixed yolk sac tumor and dysgerminoma (2)

Puerto Rico (UPR Pathology Residents) - Mixed germ cell tumor

United Kingdom (John Radcliffe Hospital) - Mixed germ cell tumor

Case 7 - Diagnosis:

Mixed germ cell tumor (dysgerminoma and yolk sac tumor), ovary

Case 7 - References:

Twisted mixed germ cell tumor of the ovary in a child.

Saudi Med J 2006; Aug;27(8): p1240-3.

Zangana AM.

Recent advances in the pathology and classification of gonadal neoplasms composed of germ cells and sex cord derivatives.

Int J Gynecol Pathol 2007; Jul;26(3): p313-21.

Talerman A; Roth LM.

Immunohistochemistry as a diagnostic aid in the evaluation of ovarian tumors.

Semin Diagn Pathol 2005; Feb;22(1): p3-32.

McCluggage WG; Young RH.

Malignant ovarian germ cell tumors: analysis of 32 cases.

Eur J Gynaecol Oncol 2003;;24(6): p569-73.

Yilmaz F; Gul T; Uzunlar AK.

Gonadal teratomas: a review and speculation.

Adv Anat Pathol 2004; Jan;11(1): p10-23.

Ulbright TM.

Glendale - Mucinous carcinoma
Orange (UCI Medical Center Residents) - Mucinous adenocarcinoma
San Diego (Naval Medical Center Residents) - Mucinous adenocarcinoma
Delaware (Armed Forces Medical Examiner System) - Clear cell adenocarcinoma
Georgia, Atlanta - Well-differentiated mucinous endometrial adenocarcinoma
Illinois, Oak Brook - Minimal deviation adenocarcinoma
Illinois (Heartland Regional Medical Center) - Mucinous adenocarcinoma, well-differentiated
Kansas (Peterson Laboratory Services) - Mucinous carcinoma
Michigan (University of Michigan) - Adenoma malignum
Mississippi (University of Mississippi Medical Center) - Mucinous adenocarcinoma
New York (SUNY Downstate) - Mucinous cystadenocarcinoma
Ohio (Cleveland Clinic) - Mucinous adenocarcinoma
Oregon (Oregon Health and Science University Residents) - Infiltrative well-differentiated adenocarcinoma
Pennsylvania (Drexel University College of Medicine Residents) - Adenoma malignum
Pennsylvania (Wilkes-Barre General Hospital) - Invasive mucinous adenocarcinoma, endocervix
Tennessee, Knoxville - Mucinous adenocarcinoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Mucin secreting adenocarcinoma, consistent with endometrioid adenocarcinoma, secretory variant
Wisconsin (Medical College of Wisconsin) - Mucinous endocervical adenocarcinoma
Canada (Pasqua Hospital) - Adenoma malignum
Ireland (Connelly Hospital) - TB and adenoma malignum
Japan (Asahi General Hospital) - Mucinous carcinoma (2)
Puerto Rico (UPR Pathology Residents) - Mucinous adenocarcinoma
United Kingdom (John Radcliffe Hospital) - Mucinous endometrial adenocarcinoma

Case 8 - Diagnosis:

Mucinous adenocarcinoma, uterus

Case 8 - References:

Mucin expression in nonneoplastic and neoplastic glandular epithelia of the uterine cervix.

Int J Gynecol Pathol 2003; Oct;22(4): p393-7.

Zhao S; Hayasaka T, et al.

Comparison of morphologic and immunohistochemical features of cervical microglandular hyperplasia with low-grade mucinous adenocarcinoma of the endometrium.

Int J Gynecol Pathol 2003; Jul;22(3): p261-5.

Qiu W; Mittal K.

Primary mucinous adenocarcinoma of the vagina: possibility of differentiating from metastatic adenocarcinomas.

Pathol Int 2005; Jun;55(6): p372-5.

Saitoh M; Hayasaka T, et al.

Low-grade mucinous adenocarcinoma of the uterine corpus: a rare and deceptively bland form of endometrial carcinoma.

Am J Surg Pathol 2011; Apr;35(4): p537-44.

Fujiwara M; Longacre TA.

Lobular endocervical glandular hyperplasia with extensive mucinous differentiation of endometrium and endometrial mucinous adenocarcinoma in situ: a case report and review of literature.

Gynecol Oncol 2011; Sep;122(3): p686-8.

Dinges MM; Jaggesarsingh D, et al.

Glendale - Serous carcinoma
Orange (UCI Medical Center Residents) - Krukenberg tumor
San Diego (Naval Medical Center Residents) - Metastatic carcinoma
Delaware (Armed Forces Medical Examiner System) - Adenocarcinoma with signet ring cell features, favor metastasis
Georgia, Atlanta - Metastatic carcinoma to ovary
Illinois, Oak Brook - Carcinoid
Illinois (Heartland Regional Medical Center) - Serous carcinoma, grade 2
Kansas (Peterson Laboratory Services) - Poorly differentiated Sertoli-Leydig tumor
Michigan (University of Michigan) - Luteninized thecoma
Mississippi (University of Mississippi Medical Center) - Granulosa cell tumor
New York (SUNY Downstate) - Metastatic adenocarcinoma
Ohio (Cleveland Clinic) - Krukenberg tumor
Oregon (Oregon Health and Science University Residents) - Metastatic adenocarcinoma
Pennsylvania (Drexel University College of Medicine Residents) - Cellular fibroma
Pennsylvania (Wilkes-Barre General Hospital) - Sclerosing stromal tumor, ovary
Tennessee, Knoxville - Metastatic adenocarcinoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Sertoli-Leydig cell tumor
Wisconsin (Medical College of Wisconsin) - Metastatic carcinoma
Canada (Pasqua Hospital) - Metastatic carcinoma
Ireland (Connelly Hospital) - Adult granulosa cell tumor
Japan (Asahi General Hospital) - Adult granulosa cell tumor (1); Fibroma (1)
Puerto Rico (UPR Pathology Residents) - Sertoli-Leydig tumor vs. metastatic adenocarcinoma
United Kingdom (John Radcliffe Hospital) - Metastatic adenocarcinoma, likely breast carcinoma

Case 9 - Diagnosis:

Metastatic adenocarcinoma to ovary, primary site unknown

Case 9 - References:

Cervical adenocarcinoma metastatic to the ovary mimicking primary ovarian carcinoma.
Pathology 2009;41(4): p397-400.
Khor TS; Brennan BA, et al.

Displaced ovarian granulosa cells mimicking metastatic lobular carcinoma of the breast.
J Clin Pathol 2012; Feb;65(2): p188-9.
Smith JH; Southall P.

Pathology of primary and metastatic mucinous ovarian neoplasms.
J Clin Pathol 2012; Jul;65(7): p591-5.
Leen SL; Singh N.

Diagnostic challenge of secondary (metastatic) ovarian tumors simulating primary endometrioid and mucinous neoplasms.
Pathol Int 2005; May;55(5): p231-43.
Hart WR.

From Krukenberg to today: the ever present problems posed by metastatic tumors in the ovary. Part II.
Adv Anat Pathol 2007; May;14(3): p149-77.
Young RH.

Metastatic neoplasms involving the ovary: a review with an emphasis on morphological and immunohistochemical features.
Histopathology 2005; Sep;47(3): p231-47.
McCluggage WG; Wilkinson N.

Lung carcinoma metastatic to the ovary: a clinicopathologic study of 32 cases emphasizing their morphologic spectrum and problems in differential diagnosis.

Am J Surg Pathol 2005; Aug;29(8): p997-1006.

Irving JA; Young RH.

Case No. 10, Accession No. 19946

November 2013

Glendale - Endometrioid carcinoma

Orange (UCI Medical Center Residents) - Endometrioid adenocarcinoma

San Diego (Naval Medical Center Residents) - Endometrioid adenocarcinoma

Delaware (Armed Forces Medical Examiner System) - Endometrioid adenocarcinoma, arising from EIC

Georgia, Atlanta - Endometrioid adenocarcinoma in decidua

Illinois, Oak Brook - Endometrial adenocarcinoma

Illinois (Heartland Regional Medical Center) - Endometrioid adenocarcinoma, grade 2

Kansas (Peterson Laboratory Services) - Endometrioid adenocarcinoma with squamous metaplasia, grade 1

Michigan (University of Michigan) - Endometrioid adenocarcinoma

Mississippi (University of Mississippi Medical Center) - Endometrioid adenocarcinoma with progesterone effect

New York (SUNY Downstate) - Endometrioid carcinoma and pseudodecidualization (progesterone effect)

Ohio (Cleveland Clinic) - Endometrioid adenocarcinoma with treatment affect

Oregon (Oregon Health and Science University Residents) - Endometrial adenocarcinoma

Pennsylvania (Drexel University College of Medicine Residents) - Endometrioid adenocarcinoma

Pennsylvania (Wilkes-Barre General Hospital) - Endometrioid borderline tumor with luteinization, ovary

Tennessee, Knoxville - Atypical endometrial hyperplasia can't rule out well-differentiated endometrioid adenocarcinoma

Wisconsin (Medical Assessment and Consultation, S.C.) - Sertoliform endometrioid adenocarcinoma

Wisconsin (Medical College of Wisconsin) - Endometrioid adenocarcinoma, low-grade

Canada (Pasqua Hospital) - Atypical polypoid adenomyoma

Ireland (Connolly Hospital) - Endometrioid endometrial adenocarcinoma and decidualization of the stroma

Japan (Asahi General Hospital) - Effects of mirena coil (1); Endometrial adenosquamous carcinoma (1)

Puerto Rico (UPR Pathology Residents) - Endometrial adenocarcinoma, endometrioid type, grade 2

United Kingdom (John Radcliffe Hospital) - Complex endometrial hyperplasia with atypia. Cannot exclude endometrial adenocarcinoma.

Case 10 - Diagnosis:

Endometrial adenocarcinoma, uterus

Case 10 - References:

Endometrial sampling diagnosis of FIGO grade 1 endometrial adenocarcinoma with a background of complex atypical hyperplasia and final hysterectomy pathology.

Am J Obstet Gynecol 2010; Mar;202(3): p278.e1-6.

Leitao MM; Kehoe S, et al.

Low-grade endometrial adenocarcinoma: a diagnostic algorithm for distinguishing atypical endometrial hyperplasia and other benign (and malignant) mimics.

Adv Anat Pathol 2009; Jan;16(1): p1-22.

McKenney JK; Longacre TA.

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