



CALIFORNIA
TUMOR TISSUE REGISTRY

GENERAL PATHOLOGY

Minutes – Subscription B

November 2011



SUGGESTED READING (General Topics from Recent Literature):

- Toward uniformity in the Diagnosis of Eosinophilic Esophagitis: The Effect of Guidelines on Variability of Diagnostic Criteria for EoE. *Am J Gastroenterol* 2011; 106:824-832. Sperry SLW, Shaheen NJ, Dellon ES.
- Expression of CD19 and lack of miR-223 Distinguish extramedullary plasmacytoma from multiple myeloma *Histopath* 2011; 58:896-905, Yu S-C, Chen S-U, et al.
- The significance of “indefinite for dysplasia” Grading in Barrett metaplasia. *Arch Pathol Lab Med* 2011; 135:430-432, Younes M, Lauwers GY, et al.
- Immunohistochemical Staining for TLE1 Distinguishes Synovial Sarcoma From Histologic Mimics. *Am J Clin Pathol* 2011; 135:839-844, Foo WC, Cruise MW, et al.
- B-cell lymphoma with hyaline vascular castles disease-like features; A clinicopathologic study. *Am J Clin Pathol* 2011; 135:901-914, Siddiqi IN, Brynes RK, Wang E.

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FILE DIAGNOSES

CTTR Subscription B

November 2011

Case 1:

Fibromatosis, shoulder (extra-abdominal desmoid tumor, desmoid fibromatosis)
T-Y1220, M-76100

Case 2:

Dedifferentiated liposarcoma, retroperitoneum
T-50500, M-88003

Case 3:

Malignant neoplasm with rhabdoid features, scalp
T-Y0160, M-87213

Case 4:

Undifferentiated malignant neoplasm, likely carcinosarcoma, lung
T-28000, M-89803

Case 5:

Wilms tumor, kidney
T-71000, M-89603

Case 6:

Sarcomatoid renal cell carcinoma, kidney
T-71000, M-83123

Case 7:

Papillary thyroid carcinoma, thyroid
T-96000, M-80503

Case 8:

Parathyroid adenocarcinoma, parathyroid gland
T-97000, M-81403

Case 9:

Sertoli-Leydig cell tumor, ovary
T-87000, M-85901

Case 10:

Brenner tumor, ovary
T-87000, M-90000

Glendale - Desmoid tumor
Newport Beach (College Hospital) - Low grade fibrosarcoma
Orange (UCI Medical Center) - Fibroblastic tumor
Alabama (Cunningham Pathology) - Nodular fasciitis
Georgia, Atlanta - Fibromatosis
San Diego (Naval Medical Center) - Fibromatosis
Florida, Orlando - Fibromatosis
Illinois (Heartland Regional Medical Center) - Fibromatosis
Illinois (Evanston Hospital) - Desmoid
Kansas (Coffeyville Regional Medical Center) - Elastofibroma
Kansas (Peterson Laboratory Services) - Fibromatosis (2)
Maryland (University of Maryland Medical Center) - Fibromatosis
Michigan (Henry Ford Hospital) - Desmoid
New York (SUNY Downstate Medical Center) - Fibromatosis
New York (SUNY Stony Brook University Hospital) - Solitary fibrous tumor
North Carolina (Wake Forest University) - Extra-abdominal fibromatosis
Oregon (Oregon Health & Science University) - Fibromatosis
Pennsylvania (Conemaugh Memorial Medical Center) - Fibromatosis
Pennsylvania (Drexel University College of Medicine) - Fibromatosis
Tennessee, Knoxville - Nodular fasciitis
Texas, Crystal Beach - Desmoplastic fibroma
Texas, Lubbock - Angiomyxofibroma
Texas (Scott & White Hospital) - Fibromatosis
Virginia, Daleville - DFSP
Wisconsin, Madison - Fibromatosis
Wisconsin (Medical Assessment and Consultation, S.C.) - Extra-abdominal (desmoids) fibromatosis
Wisconsin (The Medical College of Wisconsin) - Nodular fasciitis
Canada (Pasqua Hospital) - Low grade fibromyxoid sarcoma
Canada (University of Sherbrooke) - Solitary fibrous tumor
Japan, Asahi General Hospital) - Dermatofibrosarcoma protuberans (1); Hemangiopericytoma (1)
Japan, Tokyo - Fibrosarcoma
Ireland (Connelly Hospital) - Nodular fasciitis
Puerto Rico (University of Puerto Rico) - Solitary fibrous tumor/fibromatosis
Saudi Arabia (King Khalid University Hospital) - Nodular fasciitis

Case 1 - Diagnosis:

Fibromatosis, shoulder (extra-abdominal desmoid tumor, desmoid fibromatosis)
 T-Y1220, M-76100

Case 1 - References:

Extra-abdominal desmoid tumors: a report of 234 cases. *J Surg Oncol* 2010; Oct 1;102(5): p380-4 Mankin HJ; Hornicek FJ; Springfield DS.
 Prognostic factors in desmoid-type fibromatosis: a clinicopathological and immunohistochemical analysis of 46 cases. *Pathology* 2010; Feb;42(2): p147-5 Huang PW; Tzen CY
 Identification of biological factors predictive of response to imatinib mesylate in aggressive fibromatosis. *Br J Cancer* 2010; Aug 10;103(4): p482-5 Dufresne A; Bertucci F, et al.
 Aggressive fibromatosis (desmoid tumor) is derived from mesenchymal progenitor cells. *Cancer Res* 2010; Oct 1;70(19): p7690-8 Wu C; Nik-Amini S; Nadesan P, et al.
 Morphological spectrum of inclusion body fibromatosis: a rare case report. *Indian J Pathol Microbiol* 2010; Oct-Dec;53(4): p827-8 Suryawanshi P; Rekhi B; Jambhekar NA
 An unusual case of extra-abdominal desmoid tumour. *Eur J Cancer Care (Engl)* 2010; May;19(3): p410-2 Zampieri N; Cecchetto M, et al.

Glendale - Gastrointestinal stromal tumor
Newport Beach (College Hospital) - Gastrointestinal stromal tumor
Orange (UCI Medical Center) - Low grade malignant spindle cell neoplasm
Alabama (Cunningham Pathology) - Gastrointestinal stromal tumor
Georgia, Atlanta - Inflammatory myofibroblastic tumor
San Diego (Naval Medical Center) - Low grade fibroma
Florida, Orlando - Gastrointestinal stromal tumor (GIST)
Illinois (Heartland Regional Medical Center) - GIST
Illinois (Evanston Hospital) - Sarcoma, possible dedifferentiated liposarcoma
Kansas (Coffeyville Regional Medical Center) - Leiomyosarcoma vs. GIST
Kansas (Peterson Laboratory Services) - Malignant GIST (1); Heterotopic mesenteric ossification (1)
Maryland (University of Maryland Medical Center) - High grade sarcoma with osseous differentiation
Michigan (Henry Ford Hospital) - Mesenteric fibrosarcoma
New York (SUNY Downstate Medical Center) - Aggressive fibromatosis
New York (SUNY Stony Brook University Hospital) - Gastrointestinal stromal tumor
North Carolina (Wake Forest University) - Low grade sarcoma
Oregon (Oregon Health & Science University) - GI stromal tumor, intermediate risk
Pennsylvania (Conemaugh Memorial Medical Center) - Spindle cell sarcoma
Pennsylvania (Drexel University College of Medicine) - GIST
Tennessee, Knoxville - GIST
Texas, Crystal Beach - Dedifferentiated liposarcoma
Texas, Lubbock - Fibrosarcoma
Texas (Scott & White Hospital) - GIST
Virginia, Daleville - Fibromatosis
Wisconsin, Madison - Fibrosarcoma, low grade
Wisconsin (Medical Assessment and Consultation, S.C.) - Mesenteric fibromatosis with focal myxoid change
Wisconsin (The Medical College of Wisconsin) - Mesenteric fibromatosis
Canada (Pasqua Hospital) - Fibromatosis
Canada (University of Sherbrooke) - Low grade fibromyxoid sarcoma
Japan (Asahi General Hospital) - Extragastrintestinal stromal tumor (1); Solitary fibrous tumor (1)
Japan, Tokyo - Mesenteric fibromatosis
Ireland (Connelly Hospital) - Myxoid malignant fibrohistiocytic tumor
Puerto Rico (University of Puerto Rico) - Sarcoma, NOS/Malignant GIST
Saudi Arabia (King Khalid University Hospital) - Gastrointestinal stromal tumor

Case 2 - Diagnosis:

Dedifferentiated liposarcoma, retroperitoneum
T-50500, M-88003

Director's note: Further history showed that the previous retroperitoneal tumor was a WD liposarcoma. (drc)

Case 2 - References:

Dedifferentiated liposarcoma with "homologous" lipoblastic (pleomorphic liposarcoma-like) differentiation: clinicopathologic and molecular analysis of a series suggesting revised diagnostic criteria. *Am J Surg Pathol* 2010; Aug;34(8): p1122-31. Marino-Enriquez A; Fletcher CD, et al..
Dedifferentiated liposarcoma with inflammatory myofibroblastic tumor-like features. *Am J Surg Pathol* 2010; Jun;34(6): p844-51. Lucas DR; Shukla A, et al.
Dedifferentiated liposarcoma of the retro-peritoneum: histologically low-grade type. *Indian J Pathol Microbiol* 2010; Apr-Jun;53(2): p353-5. Parakh RS; Zawar MP, et al.
Dedifferentiated liposarcoma. *Semin Diagn Pathol* 2001; Nov;18(4): p263-6. Nascimento AG.

Glendale - Epithelioid angiosarcoma

Newport Beach (College Hospital) - Sarcoma, possible rhabdomyosarcoma

Orange (UCI Medical Center) - Malignant neoplasm pending immunohistochemistry (ddx: melanoma, metastatic carcinoma, rhabdoid tumor)

Alabama (Cunningham Pathology) - Metastatic tumor

Georgia, Atlanta - Melanoma with rhabdoid features

San Diego (Naval Medical Center) - Pleomorphic rhabdomyosarcoma

Florida, Orlando - Poorly differentiated carcinoma with rhabdoid features vs. epithelioid angiosarcoma

Illinois (Heartland Regional Medical Center) - Spindle cell carcinoma

Illinois (Evanston Hospital) - Malignant tumor with rhabdoid phenotype

Kansas (Coffeyville Regional Medical Center) - Malignant melanoma vs. metastatic breast carcinoma

Kansas (Peterson Laboratory Services) - Malignant extrarenal rhabdoid tumor (1); Rhabdomyosarcoma, metastatic (1)

Maryland (University of Maryland Medical Center) - Malignant neoplasm with rhabdoid features

Michigan (Henry Ford Hospital) - Malignant rhabdoid tumors

New York (SUNY Downstate Medical Center) - Rhabdoid tumor

New York (SUNY Stony Brook University Hospital) - Malignant melanoma

North Carolina (Wake Forest University) - Malignant neoplasm with rhabdoid features

Oregon (Oregon Health & Science University) - Metastatic carcinoma

Pennsylvania (Conemaugh Memorial Medical Center) - Metastatic lobular carcinoma

Pennsylvania (Drexel University College of Medicine) - Metastatic melanoma

Tennessee, Knoxville - Malignant neoplasm with rhabdoid features, need IHC

Texas, Crystal Beach - Plasmacytoma

Texas, Lubbock - Rhabdoid tumor

Texas (Scott & White Hospital) - Metastatic signet ring cell carcinoma

Virginia, Daleville - Metastatic lobular carcinoma

Wisconsin, Madison - Metastatic signet ring cell carcinoma (breast vs. stomach)

Wisconsin (Medical Assessment and Consultation, S.C.) - Malignant lymphoproliferative neoplasm, favor large B-cell lymphoma with plasmacytic differentiation (would do IHC)

Wisconsin (The Medical College of Wisconsin) - Malignant rhabdoid tumor

Canada (Pasqua Hospital) - Rhabdoid tumor

Canada (University of Sherbrooke) - Metastasis of pleomorphic lobular carcinoma

Japan (Asahi General Hospital) - Metastatic signet ring cell carcinoma (2)

Japan, Tokyo - Metastatic adenocarcinoma, breast origin

Ireland (Connelly Hospital) - Metastatic tumor with signet ring morphology, lobular, GI, melanoma

Puerto Rico (University of Puerto Rico) - Metastatic carcinoma rule out pleomorphic lobular carcinoma of breast, rule out signet ring cell carcinoma of GI

Saudi Arabia (King Khalid University Hospital) - Metastatic poorly differentiated adenocarcinoma of signet ring type

Case 3 - Diagnosis:

Malignant neoplasm with rhabdoid features, scalp

T-Y0160, M-87213

Consultation (also contributor) Dr. Saul Suster: "Malignant melanoma with rhabdoid features"

Director's note: This case illustrates that the phenotype of "rhabdoid tumor" has been described in numerous sites. It tends to portend a worse prognosis. (drc)

Case 3 - References:

Malignant melanoma with a rhabdoid phenotype: histologic, immunohistochemical, and ultrastructural study of a case and review of the literature. *Arch Pathol Lab Med* 2004; Jun;128(6): p686-8. Abbott JJ; Amirkhan RH; Hoang MP.

Adenocarcinomas of the gastrointestinal tract with prominent rhabdoid features. *Ann Diagn Pathol* 2002 Dec;6(6): p357-63. Amrikachi M; Ro JY; Ordonez NG; Ayala AG

Rhabdoid meningioma: cytopathologic findings in cerebrospinal fluid. *Diagn Cytopathol* 2003 Nov;29(5): p297-9. Parwani AV; Mikolaenko I, et al..

Primary malignant rhabdoid tumor of the central nervous system--a comprehensive review. *J Neurooncol* 2005; Jul;73(3): p241-52. Tekkok IH; Sav A

Malignant rhabdoid tumor arising from a pleomorphic adenoma. *Ann Diagn Pathol* 2004; Jun;8(3): p156-61. Fung KM; Diaz EM, et al.

Malignant rhabdoid tumour of the oesophagus: a case report.. *J Clin Pathol* 2003; Sep;56(9): p713-4. Ng WC; Leong HT, et al.

Malignant rhabdoid meningioma arising in the setting of preexisting ganglioglioma: a diagnosis supported by fluorescence in situ hybridization. Case report.. *J Neurosurg* 2002; Dec;97(6): p1450-5. Bannykh SI; Perry A, et al.

Case No. 4, Accession No. 12354

November 2011

Glendale - Inflammatory myofibroblastic tumor

Newport Beach (College Hospital) - Liposarcoma, low grade

Orange (UCI Medical Center) - Malignant tumor, favor malignant mesothelioma

Alabama (Cunningham Pathology) - Mesothelioma

Georgia, Atlanta - Mesothelioma

San Diego (Naval Medical Center) - Synovial sarcoma

Florida, Orlando - Sarcomatoid carcinoma

Illinois (Heartland Regional Medical Center) - Spindle cell carcinoma

Illinois (Evanston Hospital) - Sarcomatoid squamous carcinoma

Kansas (Coffeyville Regional Medical Center) - Carcinosarcoma

Kansas (Peterson Laboratory Services) - High grade sarcoma (1); Pleomorphic carcinoma (1)

Maryland (University of Maryland Medical Center) - Pleomorphic carcinoma with squamous cell carcinoma

Michigan (Henry Ford Hospital) - Inflammatory myofibroblastic tumor

New York (SUNY Downstate Medical Center) - Sarcomatoid squamous cell carcinoma

New York (SUNY Stony Brook University Hospital) - Sarcomatoid lung carcinoma, pulmonary blastoma subtype

North Carolina (Wake Forest University) - Carcinosarcoma

Oregon (Oregon Health & Science University) - Sarcomatoid carcinoma

Pennsylvania (Conemaugh Memorial Medical Center) - Carcinosarcoma

Pennsylvania (Drexel University College of Medicine) - Solitary fibrous tumor

Tennessee, Knoxville - Carcinosarcoma, need IHC

Texas, Crystal Beach - Malignant mesothelioma consistent with subbronchial extension

Texas, Lubbock - Rhabdomyosarcoma

Texas (Scott & White Hospital) - Sarcomatoid carcinoma

Virginia, Daleville - Adenosarcoma

Wisconsin, Madison - Carcinosarcoma

Wisconsin (Medical Assessment and Consultation, S.C.) - Malignant solitary fibrous tumor

Wisconsin (The Medical College of Wisconsin) - Sarcomatoid carcinoma

Canada (Pasqua Hospital) - Carcinosarcoma

Canada (University of Sherbrooke) - Pleuropulmonary blastoma

Japan (Asahi General Hospital) - Sarcomatoid carcinoma (1); Large cell neuroendocrine carcinoma (1)

Japan, Tokyo - Inflammatory pseudotumor

Ireland (Connelly Hospital) - Sarcomatoid carcinoma

Puerto Rico (University of Puerto Rico) - Undifferentiated malignant tumor, rule out non-small cell carcinoma, rule out epithelioid angiosarcoma (1)

Saudi Arabia (King Khalid University Hospital) Non small cell carcinoma with sarcomatoid feature

Case 4 - Diagnosis:

Undifferentiated malignant neoplasm, likely carcinosarcoma, lung
T-28000, M-89803

Case 4 - References:

Molecular pathogenesis of pulmonary carcinosarcoma as determined by microdissection-based allelotyping. *Am J Surg Pathol* 2002; Apr;26(4): p510-6. Dacic S; Finkelstein SD; Sasatomi E; Swalsky PA; Yousem SA

An early lesion of pulmonary carcinosarcoma: possible diagnostic problem in frozen section interpretation. *J Clin Pathol* 2003; Aug;56(8): p638. Hattori H.

Pulmonary carcinomas with pleomorphic, sarcomatoid, or sarcomatous elements: a clinicopathologic and immunohistochemical study of 75 cases. *Am J Surg Pathol* 2003; Mar;27(3): p311-24. Rossi G; Cavazza A, et al.

Case No. 5, Accession No. 31345

November 2011

Glendale - Renal PNET

Newport Beach (College Hospital) - Wilms tumor

Orange (UCI Medical Center) - Wilms tumor

Alabama (Cunningham Pathology) - Nephroblastoma

Georgia, Atlanta - Wilms tumor

San Diego (Naval Medical Center) - Nephroblastoma

Florida, Orlando - Wilms tumor

Illinois (Heartland Regional Medical Center) - Wilms tumor

Illinois (Evanston Hospital) - Wilms tumor

Kansas (Coffeyville Regional Medical Center) - Nephroblastoma (Wilms tumor)

Kansas (Peterson Laboratory Services) - Nephroblastoma (2)

Maryland (University of Maryland Medical Center) - Nephroblastoma

Michigan (Henry Ford Hospital) - Nephroblastoma

New York (SUNY Downstate Medical Center) - Wilms tumor

New York (SUNY Stony Brook University Hospital) - Wilms tumor

North Carolina (Wake Forest University) - Wilms tumor

Oregon (Oregon Health & Science University) - Wilms tumor

Pennsylvania (Conemaugh Memorial Medical Center) - Wilms tumor

Pennsylvania (Drexel University College of Medicine) - Wilms tumor

Tennessee, Knoxville - Wilms tumor

Texas, Crystal Beach - Collecting duct carcinoma

Texas, Lubbock - Wilms tumor

Texas (Scott & White Hospital) - Wilms tumor

Virginia, Daleville - Wilms tumor

Wisconsin, Madison - Wilms tumor

Wisconsin (Medical Assessment and Consultation, S.C.) - Wilms tumor (nephroblastoma)

Wisconsin (The Medical College of Wisconsin) - Wilms tumor, favorable histology

Canada (Pasqua Hospital) - Nephroblastoma

Canada (University of Sherbrooke) - Nephroblastoma (Wilms tumor)

Japan (Asahi General Hospital) - Nephroblastoma (1); Wilms tumor (1)

Japan, Tokyo - Nephroblastoma

Ireland (Connelly Hospital) - Nephroblastoma

Puerto Rico (University of Puerto Rico) - Wilms tumor, triphasic, favorable histology

Saudi Arabia (King Khalid University Hospital) - Wilms tumor

Case 5 - Diagnosis:

Wilms tumor, kidney

T-71000, M-89603

Case 5 - References:

Botryoid Wilms tumor: a report of two cases. *Pediatr Surg Int* 2005 Jan;21(1): p43-6 Yanai T; Okazaki T; Yamataka A; Kobayashi H; Lane GJ; Saito M; Fujita H; Yamashiro Y; Miyano T.

Wilms tumor arising in a horseshoe kidney. *Indian J Med Sci* 2004 Feb;58(2): p72-3. Yeluri SV; Duttaroy DD; Ghodgaonkar P; Karanth S.

Wilms tumor.. *J Urol* 2005 Jun;173(6): p2147. Hartman DJ; MacLennan GT. Cancer and the kidney.. *Adolesc Med Clin* 2005 Feb;16(1): p121-48. Keaney CM; Springate JE.

Current therapy for Wilms tumor. *Oncologist* 2005; Nov-Dec;10(10): p815-26. Metzger ML; Dome JS.

Wilms tumour in adults: a report of three cases. *Indian J Pathol Microbiol* 2005 Apr;48(2): p235-8.. Wadhwa N; Mishra K; Agarwal S.

Case No. 6, Accession No. 29686

November 2011

Glendale - Sarcomatoid renal cell carcinoma
Newport Beach (College Hospital) - Mesoblastic nephroma
Orange (UCI Medical Center) - Sarcomatoid renal cell carcinoma
Alabama (Cunningham Pathology) - Sarcomatoid renal cell carcinoma
Georgia, Atlanta - Sarcomatoid carcinoma
San Diego (Naval Medical Center) - Sarcomatoid renal cell carcinoma
Florida, Orlando - Sarcomatoid carcinoma
Illinois (Heartland Regional Medical Center) - Sarcomatoid carcinoma
Illinois (Evanston Hospital) - Sarcomatoid renal cell carcinoma
Kansas (Coffeyville Regional Medical Center) - Sarcomatoid renal cell carcinoma
Kansas (Peterson Laboratory Services) - Sarcomatoid renal cell carcinoma
Maryland (University of Maryland Medical Center) - Sarcomatoid renal cell carcinoma
Michigan (Henry Ford Hospital) - Sarcomatoid renal cell carcinoma
New York (SUNY Downstate Medical Center) - Sarcomatoid renal cell carcinoma
New York (SUNY Stony Brook University Hospital) - Sarcomatoid renal cell carcinoma
North Carolina (Wake Forest University) - Sclerosing epithelioid fibrosarcoma
Oregon (Oregon Health & Science University) - Sarcomatoid renal cell carcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Sarcomatoid carcinoma
Pennsylvania (Drexel University College of Medicine) - Renal cell carcinoma, sarcomatoid
Tennessee, Knoxville - High grade transitional cell carcinoma vs. sarcomatoid renal cell carcinoma
Texas, Crystal Beach - Spindle cell carcinoma
Texas, Lubbock - Leiomyosarcoma
Texas (Scott & White Hospital) - Sarcomatoid renal cell carcinoma
Virginia, Daleville - Spindle cell carcinoma
Wisconsin, Madison - Sarcomatoid carcinoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Favor leiomyosarcoma (would do additional tissue sampling and IHC staining)
Wisconsin (The Medical College of Wisconsin) - Sarcomatoid carcinoma
Canada (Pasqua Hospital) - Sarcomatoid carcinoma
Canada (University of Sherbrooke) - Sarcomatoid renal cell carcinoma
Japan (Asahi General Hospital) - Sarcomatoid renal cell carcinoma (2)
Japan, Tokyo - Angiomyolipoma
Ireland (Connelly Hospital) - Carcinosarcoma
Puerto Rico (University of Puerto Rico) - Sarcomatoid renal cell carcinoma, sarcoma, NOS
Saudi Arabia (King Khalid University Hospital) - Sarcomatoid renal cell carcinoma

Case 6 - Diagnosis:

Sarcomatoid renal cell carcinoma, kidney
T-71000, M-83123

Case 6 - References:

Sarcomatoid renal cell carcinoma with divergent sarcomatoid growth patterns: a case report and review of the literature. *Arch Pathol Lab Med* 2005; Aug;129(8): p1057-60. Li L; Teichberg S; Steckel J; Chen QH.
Primary renal synovial sarcoma confirmed by cytogenetic analysis: a lesion distinct from sarcomatoid renal cell carcinoma.. *Arch Pathol Lab Med* 2005; Feb;129(2): p238-40. Shannon BA; Murch A; Cohen RJ.
Chromophobe renal cell carcinoma with sarcomatoid transformation.. *Ann Diagn Pathol* 2003; Oct;7(5): p296-9. Abrahams NA; Ayala AG; Czerniak B.
Review of sarcomatoid renal cell carcinoma with focus on clinical and pathobiological aspects.. *Histol Histopathol* 2003; Apr;18(2): p551-5. Kuroda N; Toi M; Hiroi M; Enzan H.

Renal cell carcinoma, chromophobe type, with collecting duct carcinoma and sarcomatoid components. *Arch Pathol Lab Med* 2003; Jan;127(1): pe38-40. Gong Y; Sun X; Haines GK; Pins MR.

Sarcomatoid differentiation in renal cell carcinoma: a study of 101 cases. *Am J Surg Pathol* 2001; Mar;25(3): p275-84. de Peralta-Venturina M, et al.

Sarcomatoid differentiation in renal cell carcinoma: prognostic implications. *Int Braz J Urol* 2005; Jan-Feb;31(1): p10-6. Dall'Oglio MF; Lieberknecht M, et al.

Prognostic factors and survival of patients with sarcomatoid renal cell carcinoma. *J Urol* 2002; Jan;167(1): p65-70. Mian BM; Bhadkamkar N, et al.

Case No. 7, Accession No. 31277

November 2011

Glendale - Papillary carcinoma

Newport Beach (College Hospital) - Invasive papillary carcinoma, thyroid

Orange (UCI Medical Center) - Papillary thyroid carcinoma, follicular variant

Alabama (Cunningham Pathology) - Follicular variant of papillary thyroid carcinoma

Georgia, Atlanta - Papillary thyroid carcinoma

San Diego (Naval Medical Center) - Papillary thyroid carcinoma

Florida, Orlando - Papillary carcinoma

Illinois (Heartland Regional Medical Center) - Papillary carcinoma

Illinois (Evanston Hospital) - Papillary thyroid carcinoma

Kansas (Coffeyville Regional Medical Center) - Papillary carcinoma

Kansas (Peterson Laboratory Services) - Papillary carcinoma (2)

Maryland (University of Maryland Medical Center) - Papillary thyroid carcinoma with focal tall cell features

Michigan (Henry Ford Hospital) - Papillary thyroid carcinoma

New York (SUNY Downstate Medical Center) - Papillary carcinoma of the thyroid gland

New York (SUNY Stony Brook University Hospital) - Papillary thyroid carcinoma

North Carolina (Wake Forest University) - Papillary thyroid carcinoma, tall cell variant

Oregon (Oregon Health & Science University) - Papillary thyroid carcinoma

Pennsylvania (Conemaugh Memorial Medical Center) - Papillary thyroid carcinoma

Pennsylvania (Drexel University College of Medicine) - Papillary carcinoma

Tennessee, Knoxville - Papillary thyroid carcinoma

Texas, Crystal Beach - Papillary carcinoma

Texas, Lubbock - Papillary carcinoma, tall cell variant

Texas (Scott & White Hospital) - Papillary thyroid carcinoma

Virginia, Daleville - Papillary carcinoma

Wisconsin, Madison - Papillary thyroid carcinoma

Wisconsin (Medical Assessment and Consultation, S.C.) - Papillary thyroid carcinoma and intrathyroidal lymph node

Wisconsin (The Medical College of Wisconsin) - Papillary thyroid carcinoma, follicular variant

Canada (Pasqua Hospital) - Papillary carcinoma

Canada (University of Sherbrooke) - Papillary thyroid carcinoma, follicular variant

Japan (Asahi General Hospital) - Papillary carcinoma (2)

Japan, Tokyo - Papillary carcinoma

Ireland (Connelly Hospital) - Papillary carcinoma

Puerto Rico (University of Puerto Rico) - Papillary thyroid carcinoma

Saudi Arabia (King Khalid University Hospital) - Papillary thyroid carcinoma

Case 7 - Diagnosis:

Papillary thyroid carcinoma, thyroid
T-96000, M-80503

Director's note: Several sets had slides with focal "tall cells". (drc)

Case 7 - References:

Needle tract implantation of papillary thyroid carcinoma after fine-needle aspiration biopsy.. *World J Surg* 2005; Dec;29(12): p1544-9. Ito Y; Tomoda C, et al.

Papillary carcinoma of the thyroid <or=1.0 cm: rarely incidental or occult any more. *Cancer* 2005; Aug 25;105(4): p217-9. Renshaw AA.

Fasciitis-like papillary Carcinoma of the thyroid gland..*Acta Cytol* 2005; Jul-Aug;49(4): p462-3.Andres L; Etxegarai L; Ibarrola R; Hermosa C; Lopez JI.

Metastatic melanoma of the thyroid mimicking a papillary carcinoma in fine-needle aspiration. *Diagn Cytopathol* 2005; Jun;32(6): p374-6. Miiji LO; Nguyen G.

Primary papillary carcinoma of the thyroglossal duct cyst--a case report. *Indian J Pathol Microbiol* 2005; Apr;48(2): p228-30. Srinivasan R; Ranjini K; Vadhiraja BM.

Case No. 8, Accession No. 24634

November 2011

Glendale - Parathyroid carcinoma
Newport Beach (College Hospital) - Parathyroid adenoma
Orange (UCI Medical Center) - Parathyroid carcinoma
Alabama (Cunningham Pathology) - Parathyroid carcinoma
Georgia, Atlanta - Atypical parathyroid adenoma
San Diego (Naval Medical Center) - Atypical parathyroid adenoma
Florida, Orlando - Parathyroid carcinoma
Illinois (Heartland Regional Medical Center) - Parathyroid carcinoma
Illinois (Evanston Hospital) - Parathyroid carcinoma
Kansas (Coffeyville Regional Medical Center) - Parathyroid carcinoma
Kansas (Peterson Laboratory Services) - Parathyroid carcinoma (2)
Maryland (University of Maryland Medical Center) - Parathyroid carcinoma
Michigan (Henry Ford Hospital) - Parathyroid hyperplasia
New York (SUNY Downstate Medical Center) - Parathyroid carcinoma
New York (SUNY Stony Brook University Hospital) - Parathyroid carcinoma
North Carolina (Wake Forest University) - Parathyroid carcinoma
Oregon (Oregon Health & Science University) - Parathyroid adenoma with fibrosis, concerning for vascular invasion
Pennsylvania (Conemaugh Memorial Medical Center) - Parathyroid carcinoma
Pennsylvania (Drexel University College of Medicine) - Parathyroid carcinoma
Tennessee, Knoxville - Parathyroid carcinoma
Texas, Crystal Beach - Parathyroid adenoma
Texas, Lubbock - Parathyroid adenoma
Texas (Scott & White Hospital) - Parathyroid carcinoma
Virginia, Daleville - Parathyroid adenoma
Wisconsin, Madison - Parathyroid carcinoma, invasive
Wisconsin (Medical Assessment and Consultation, S.C.) - Parathyroid gland carcinoma
Wisconsin (The Medical College of Wisconsin) - Parathyroid carcinoma
Canada (Pasqua Hospital) - Parathyroid carcinoma
Canada (University of Sherbrooke) - Parathyroid carcinoma
Japan (Asahi General Hospital) - Parathyroid carcinoma (2)
Japan, Tokyo - Parathyroid adenoma
Ireland (Connelly Hospital) - Parathyroid carcinoma
Puerto Rico (University of Puerto Rico) - Parathyroid carcinoma
Saudi Arabia (King Khalid University Hospital) - Parathyroid carcinoma

Outside Consultation: AFIP, William R. Coran, M.D.; “Parathyroid carcinoma.”

Case 8 - Diagnosis:

Parathyroid adenocarcinoma, parathyroid gland
T-97000, M-81403

Consultation: AFIP (Dr. William R. Coran): “Parathyroid carcinoma.”

Case 8 - References:

Parathyroid carcinoma: a report of two cases and a concise review and update of the literature. *J Laryngol Otol* 2005; Jul;119(7): p577-80. Babar-Craig H; Quaglia A; Stearns M.

Parathyroid carcinoma: an overview. *Adv Anat Pathol* 2005; Mar;12(2): p53-61, De Lellis RA.

Parathyroid carcinoma: a multicenter review of clinicopathologic features and treatment outcomes. *Ear Nose Throat J* 2004; Jul;83(7): p491-4. Wiseman SM; Rigual NR; Hicks WL; Popat SR; Lore JM; Douglas WG; Jacobson MJ; Tan D; Loree TR

Parathyroid carcinomas: can clinical outcomes for parathyroid carcinomas be determined by histologic evaluation alone? *Endocr Pathol* 2002; Summer;13(2): p135-9. Kameyama K; De Lellis RA; Lloyd RV; Kakudo K; Takami HE.

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Heterotopic parathyroid inclusion in a cervical lymph node. *Head Neck* 2007; Dec;29(12): p1160-3. Veras E; Sturgis EM; Luna MA.

Case No. 9, Accession No. 31185

November 2011

Glendale - Sertoli Leydig cell tumor

Newport Beach (College Hospital) - Leydig cell tumor of ovary

Orange (UCI Medical Center) - Sex cord stromal tumor (ddx: thecoma vs. Sertoli-Leydig)

Alabama (Cunningham Pathology) - Juvenile granulosa cell tumor

Georgia, Atlanta - Sertoli-Leydig cell tumor

San Diego (Naval Medical Center) - Juvenile granulosa cell tumor

Florida, Orlando - Sertoli-Leydig cell tumor, intermediate

Illinois (Heartland Regional Medical Center) - Ovarian sex cord stromal tumor, favor Sertoli-Leydig tumor

Illinois (Evanston Hospital) - Sertoli-leydig cell tumor

Kansas (Coffeyville Regional Medical Center) - Granulosa cell tumor

Kansas (Peterson Laboratory Services) - Juvenile granulosa cell tumor (2)

Maryland (University of Maryland Medical Center) - Sertoli-Leydig cell tumor, intermediate grade

Michigan (Henry Ford Hospital) - Thecoma

New York (SUNY Downstate Medical Center) - Sex cord stromal tumor with steroid cell tumor component

New York (SUNY Stony Brook University Hospital) - Sertoli-Leydig cell tumor

North Carolina (Wake Forest University) - Sertoli-Leydig cell tumor

Oregon (Oregon Health & Science University) - Sclerosing stromal tumor (1); Luteinized thecoma (2)

Pennsylvania (Conemaugh Memorial Medical Center) - Juvenile granulosa with fibrothecomatous feature

Pennsylvania (Drexel University College of Medicine) - Juvenile granulosa cell tumor

Tennessee, Knoxville - Luteinized thecoma

Texas, Crystal Beach - Juvenile granulosa cell tumor

Texas, Lubbock - Sertoli Leydig cell tumor

Texas (Scott & White Hospital) - Juvenile granulosa cell tumor

Virginia, Daleville - Granulosa cell tumor

Wisconsin, Madison - Ovarian sex cord stromal tumor

Wisconsin (Medical Assessment and Consultation, S.C.) - Juvenile granulosa cell tumor

Wisconsin (The Medical College of Wisconsin) - Fibroma thecoma

Canada (Pasqua Hospital) - Sertoli-Leydig tumor

Canada (University of Sherbrooke) - Polycystic ovary

Japan (Asahi General Hospital) - Sertoli-Leydig cell tumor (1); Juvenile granulosa cell tumor (1)

Japan, Tokyo - Sertoli-Leydig cell tumor

Ireland (Connelly Hospital) - Sertoli-Leydig cell tumor

Puerto Rico (University of Puerto Rico) - Vitilizing sex cord stromal tumor/Sertoli-Leydig cell tumor/Steroid cell tumor

Saudi Arabia (King Khalid University Hospital) Sertoli-Leydig ovarian tumor

Case 9 - Diagnosis:

Sertoli-Leydig cell tumor, ovary
T-87000, M-85901

Case 9 - References:

Ovarian Sertoli-Leydig cell tumor of intermediate differentiation with immature skeletal muscle heterologous Sertoli-Leydig cell tumor. *Arch Gynecol Obstet* 2001; Jan;264(4): p206-8. Lantzsch T; Stoerer S, et al.
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Pathologic quiz case: a 22-year-old woman with a large right adnexal mass. Poorly differentiated Sertoli-Leydig cell tumor of the right ovary with retiform differentiation and heterologous elements (mucinous components). *Arch Pathol Lab Med* 2004; Jul;128(7): pe93-5. Ching B; Klink A; Wang L.
Estrogen receptor alpha and progesterone receptor expression in ovarian adult granulosa cell tumors and Sertoli-Leydig cell tumors. *Int J Gynecol Pathol* 2007; Oct;26(4): p375-82. Farinola MA; Gown AM, et al.
Prognostic factors responsible for survival in sex cord stromal tumors of the ovary--an analysis of 376 women. *Gynecol Oncol* 2007 Feb;104(2): p396-400. Zhang M; Cheung MK, Chan JK, et al.

Case No. 10, Accession No. 31412**November 2011**

Glendale - Brenner

Newport Beach (College Hospital) - Brenner tumor with metastlastic papillary cystic change

Orange (UCI Medical Center) - Borderline Brenner tumor

Alabama (Cunningham Pathology) - Brenner tumor of borderline malignancy

Georgia, Atlanta - Brenner tumor

San Diego (Naval Medical Center) - Borderline Brenner tumor

Florida, Orlando - Borderline Brenner tumor

Illinois (Heartland Regional Medical Center) - Brenner tumor

Illinois (Evanston Hospital) - Proliferating Brenner tumor

Kansas (Coffeyville Regional Medical Center) - Brenner tumor with papillary transitional cell carcinoma

Kansas (Peterson Laboratory Services) - Borderline Brenner tumor (1); Brenner tumor (1)

Maryland (University of Maryland Medical Center) - Brenner tumor, borderline

Michigan (Henry Ford Hospital) - Borderline Brenner tumor

New York (SUNY Downstate Medical Center) - Borderline Brenner tumor

New York (SUNY Stony Brook University Hospital) - Borderline Brenner tumor

North Carolina (Wake Forest University) - Borderline Brenner tumor

Oregon (Oregon Health & Science University) - Borderline Brenner tumor of the ovary

Pennsylvania (Conemaugh Memorial Medical Center) - Borderline Brenner tumor

Pennsylvania (Drexel University College of Medicine) - Brenner tumor, borderline

Tennessee, Knoxville - Borderline Brenner tumor with mucinous cystadenoma

Texas, Crystal Beach - Brenner tumor malignant consistent with transitional cell carcinoma

Texas, Lubbock - Brenner tumor

Texas (Scott & White Hospital) - Borderline Brenner tumor

Virginia, Daleville - Brenner tumor, low grade urothelial papillary carcinoma

Wisconsin, Madison - Usual and proliferative Brenner tumor

Wisconsin (Medical Assessment and Consultation, S.C.) - Proliferating Brenner tumor (borderline) with cystic papillary urothelial (transitional) cell lining

Wisconsin (The Medical College of Wisconsin) - Brenner tumor, borderline

Canada (Pasqua Hospital) - Brenner tumor

Canada (University of Sherbrooke) - Borderline Brenner tumor

Japan (Asahi General Hospital) - Borderline Brenner tumor (1); Brenner tumor (1)

Japan, Tokyo - Brenner tumor, malignant

Ireland (Connelly Hospital) - Brenner tumor, borderline

Puerto Rico (University of Puerto Rico) - Brenner tumor

Saudi Arabia (King Khalid University Hospital) - Borderline Brenners tumor (low grade transitional cell carcinoma)

Case 10 - Diagnosis:

Brenner tumor, ovary
T87000, M-90000

Case 10 - References:

Unique cytomorphologic features of Brenner tumor of the ovary: a case report. *Acta Cytol* 2010 Sep-Oct;54(5 Suppl): p918-22. Mittal N; Gupta N, et al.
p63 expression in ovarian tumours: a marker for Brenner tumours but not transitional cell carcinomas. *Histopathology* 2007 Oct;51(4): p477-83. Liao XY; Xue WC, et al.
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Brenner tumour with carcinoma in situ: evidence for a spectrum from benign to malignant. *Histopathology* 2003; Nov;43(5): p502-4. Monaghan H; Williams AR