



CALIFORNIA
TUMOR TISSUE REGISTRY

GENITOURINARY PATHOLOGY

Minutes – Subscription A

November 2012



SUGGESTED READING (General Topics from Recent Literature):

- Hartman DJ and Owens SR. Are routine ancillary stains required to diagnose helicobacter infection in gastric biopsy specimens? An institutional quality assurance review. *Am J Clin Pathol* 2012; 137:255-260.
- Ueno H, Kajiwara Y, et al. New criteria for histologic grading of colorectal cancer. *Am J Surg Pathol* 2012; 36:193-201.
- Zhao C, Domfeh AB and Austin RM. Histopathologic outcomes and clinical correlations for high-risk patients screened with anal cytology. *Acta Cytol* 2012; 56:62-67.
- Magro G, Caltabiano R, et al. Vulvovaginal myofibroblastoma. Expanding the morphological and immunohistochemical spectrum. A clinicopathologic study of 10 cases. *Hum Pathol* 2012; 43:243-253.
- Lee H, Tang LH, et al. The prevalence of pancreatic acinar differentiation in gastric adenocarcinoma. Report of a case and immunohistochemical study of 111 additional cases. *Am J Surg Pathol* 2012; 36:402-408.

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FILE DIAGNOSES

CTTR Subscription A

November 2012

Case 1:

Classic seminoma, testicle
T-71000, M-89603

Case 2:

Spermatocytic seminoma, testicle
T-78000, M-89400

Case 3:

Leiomyosarcoma, bladder
T-74000, M-88903

Case 4:

Acute and chronic pyelonephritis, kidney
T-71000, M-43000

Case 5:

Congenital mesoblastic nephroma, kidney
T-71000, M-89601

Case 6:

Renal tumor, favor oncocytoma, cannot exclude chromophobe renal cell carcinoma, kidney
T-71000, M-82900

Case 7:

Renal epithelial and stromal tumor (REST), kidney
T-71000, M-85901

Case 8:

Collecting duct carcinoma, kidney
T-71000, M-85003

Case 9:

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

Case 10:

Wilms tumor (nephroblastoma) – favorable histology, kidney
T-71000, M-89603

Fontana (Kaiser Permanente) - Seminoma
Glendale - Classic seminoma with lymph vascular space involvement
Hayward/Fremont (St. Rose Hospital) - Seminoma
Long Beach (Long Beach, VA) - Seminoma with multinucleated giant cells
Oakland (ACMC) - Seminoma (trophoblastic elements) (2)
Orange (Orange County Pathology Medical Group) - Seminoma with syncytiotrophoblastic cells
Oxnard (St. John's Regional Medical Center) - Seminoma (2)
San Diego (Naval Medical Center) - Seminoma
Santa Barbara (Miramonte Laboratory) - Seminoma
Woodland Hills (Kaiser Permanente) - Seminoma, classic type
Arkansas (Associated Pathologists Laboratory) - Seminoma
Colorado (McKee Medical Center) - Classic seminoma
Delaware (Armed Forces Medical Examiner System) - Seminoma
Florida (GastroEnterology Associates of Ocala) - Seminoma
Georgia, Atlanta - Seminoma
Illinois (Heartland Regional Medical Center) - Classic seminoma (with syncytiotrophoblastic giant cells)
Illinois (Loyola University of Chicago) - Seminoma
Kansas (Peterson Laboratory Services) - Seminoma
Maryland (University of Maryland) - Seminoma
Massachusetts (University of Massachusetts Medical Center) - Seminoma
Minnesota (Fairview Ridges Hospital) - Classic seminoma with syncytiotrophoblast cells
Missouri (Missouri Delta Medical Center) - Seminoma (classical) (2)
New York (Buffalo General Hospital) - Classic seminoma
New York (Erie County Medical Center) - Seminoma with STGC and blood vessel invasion
New York (Downstate Medical Center) - Classic seminoma
New York (Stony Brook University Medical Center) - Seminoma
Ohio (Cleveland Clinic) - Seminoma
Pennsylvania (Drexel University College of Medicine) - Seminoma
Pennsylvania (Lehigh Valley Hospital) - Classic seminoma
Pennsylvania (Magee Women's Hospital) - Seminoma, classical type with focal choriocarcinoma
Puerto Rico (University of Puerto Rico) - Classical seminoma with syncytiotrophoblastic cells
South Carolina (Medical University of South Carolina) - Seminoma
Tennessee (Molecular Pathology Laboratory Network) - Anaplastic seminoma
Texas (Crystal Beach) - Seminoma
Texas, Lubbock - Classic seminoma
Washington (Seattle VAMC) - Seminoma with typical growth pattern
Wisconsin, Madison - Seminoma, classical
West Virginia (Greenbrier Valley Medical Center) - Seminoma
Wisconsin (Medical Assessment and Consultation, SC) - Seminoma with syncytiotrophoblastic elements
Wisconsin (Medical College of Wisconsin) - Seminoma
Australia (Royal Prince Alfred Hospital) - Seminoma and intratubular germ cell neoplasm (1); Seminoma with syncytiotrophoblastic cells.
Australia (St. Vincent's Hospital) - Seminoma without ITGCT. Lymphovascular involvement
Canada (Pasqua Hospital) - Seminoma
Canada, Sherbrooke - Seminoma with syncytiotrophoblastic elements
Ireland (Bon Secours Tralee) - Seminoma with syncytiotrophoblastic elements
Ireland (Connolly Hospital) - Seminoma with vascular invasion and IGCN
Ireland (Galway Residents) - Classic seminoma
Ireland (Kerry General Hospital) - Classic seminoma
Japan (Setagaya-Ku) - Seminoma
Japan (Asashi General Hospital) - Embryonal carcinoma (1); Choriocarcinoma (1)
Japan (University of Yamanashi) - Seminoma
Oman (Sultanate of Azaiba) - Seminoma with syncytiotrophoblastic cells
Saudi Arabia (King Fahad Hospital, Hofuf) - Classic seminoma with trophoblastic giant cells and scanty ITGCN, left testicle

Saudi Arabia (King Khalid University Hospital) - Seminoma, conventional
Singapore (Freelance/Locum Practice) - Seminoma

Case 1 - Diagnosis:

Classic seminoma, testicle
T-71000, M-89603

Case 1 - References:

TCL1 is a diagnostic marker for intratubular germ cell neoplasia and classic seminoma. *Histopathology* 2010; Jul;57(1): p152-7. Cao D; Lane Z, et al.
Late recurrent seminoma: 18 years after bilateral orchidectomy in patient with bilateral stage one testicular seminoma. *Int Urol Nephrol* 2010; Mar;42(1): p69-72. Ng CF; Tsui TM, et al.
Retroperitoneal seminoma in limited biopsies: morphologic criteria and immunohistochemical findings in 30 cases. *Am J Surg Pathol* 2006; Jun;30(6): p766-73. Sung MT; MacLennan GT; Cheng L
Unusual cystic change in classic seminoma of the testis.. *Am J Surg Pathol* 2006; Jan;30(1): p137-9. Flynn MJ; Childerhouse A, et al.
Clinicopathological features predicting nodal metastasis of testicular seminoma: results from 100 cases in a single institute. *Urol Int* 2006; 77(1): p64-8. Sato A; Ohigashi T, et al.
Seminoma with tubular, microcystic, and related patterns: a study of 28 cases of unusual morphologic variants that often cause confusion with yolk sac tumor. *Am J Surg Pathol* 2005; Apr;29(4): p500-5. Ulbright TM; Young RH.

Case No. 2, Accession No. 31438

November 2012

Fontana (Kaiser Permanente) - Seminoma

Glendale - Spermatocytic seminoma

Hayward/Fremont (St. Rose Hospital) - Spermatocytic seminoma

Long Beach (Long Beach, VA) - Classic seminoma

Oakland (ACMC) - Seminoma (favor spermatocytic type, doubt sex cord stromal tumor) (1); Spermatocytic seminoma (1)

Orange (Orange County Pathology Medical Group) - Spermatocytic seminoma

Oxnard (St. John's Regional Medical Center) - Spermatocytic seminoma (1); Spermatocytic vs. regular seminoma (1)

San Diego (Naval Medical Center) - Spermatocytic seminoma

Santa Barbara (Miramonte Laboratory) - Leydig cell tumor

Woodland Hills (Kaiser Permanente) - Spermatocytic seminoma

Arkansas (Associated Pathologists Laboratory) - Embryonal carcinoma

Colorado (McKee Medical Center) - Spermatocytic seminoma

Delaware (Armed Forces Medical Examiner System) - Spermatocytic seminoma

Florida (GastroEnterology Associates of Ocala) - Spermatocytic seminoma

Georgia, Atlanta - Spermatocytic seminoma

Illinois (Heartland Regional Medical Center) - Spermatocytic seminoma

Illinois (Loyola University of Chicago) - Spermatocytic seminoma

Kansas (Peterson Laboratory Services) - Seminoma and intratubular germ cell neoplasia

Maryland (University of Maryland) - Spermatocytic seminoma

Massachusetts (University of Massachusetts Medical Center) - Spermatocytic seminoma

Minnesota (Fairview Ridges Hospital) - Spermatocytic seminoma

Missouri (Missouri Delta Medical Center) - Seminoma (1); Spermatocytic seminoma (1)

New York (Buffalo General Hospital) - Spermatocytic seminoma

New York (Erie County Medical Center) - Spermatocytic seminoma

New York (Downstate Medical Center) - Spermatocytic seminoma

New York (Stony Brook University Medical Center) - Spermatocytic seminoma

Ohio (Cleveland Clinic) - Seminoma

Pennsylvania (Drexel University College of Medicine) - Spermatocytic seminoma

Pennsylvania (Lehigh Valley Hospital) - Spermatocytic seminoma

Pennsylvania (Magee Women's Hospital) - Seminoma spermatocytic

Puerto Rico (University of Puerto Rico) - Spermatocytic seminoma

South Carolina (Medical University of South Carolina) - Spermatocytic seminoma
Tennessee (Molecular Pathology Laboratory Network) - Classic seminoma
Texas (Crystal Beach) - Spermatocytic seminoma
Texas, Lubbock - Spermatocytic seminoma
Washington (Seattle VAMC) - Seminoma with spermatocytic growth pattern
Wisconsin, Madison - Spermatocytic seminoma
West Virginia (Greenbrier Valley Medical Center) - Spermatocytic seminoma
Wisconsin (Medical Assessment and Consultation, SC) - Spermatocytic seminoma
Wisconsin (Medical College of Wisconsin) - Spermatocytic seminoma
Australia (Royal Prince Alfred Hospital) - Spermatocytic seminoma (2)
Australia (St. Vincent's Hospital) - Spermatocytic seminoma
Canada (Pasqua Hospital) - Spermatocytic seminoma
Canada, Sherbrooke - Spermatocytic seminoma, testis
Ireland (Bon Secours Tralee) - Spermatocytic seminoma
Ireland (Connolly Hospital) - Spermatocytic seminoma
Ireland (Galway Residents) - Spermatocytic seminoma
Ireland (Kerry General Hospital) - Classic seminoma
Japan (Setagaya-Ku) - Seminoma
Japan (Asashi General Hospital) - Spermatocytic seminoma (2)
Japan (University of Yamanashi) - Spermatogenic seminoma
Oman (Sultanate of Azaiba) - Seminoma (spermatocytic variant)
Saudi Arabia (King Fahad Hospital, Hofuf) - Spermatocytic seminoma, right testicle
Saudi Arabia (King Khalid University Hospital) - Seminoma, spermatocytic
Singapore (Freelance/Locum Practice) - Spermatocytic seminoma

Case 2 - Diagnosis:

Spermatocytic seminoma, testicle
 T-78000, M-89400

Case 2 - References:

Molecular cytogenetic analysis of human spermatocytic seminomas. *J Pathol* 2004; Nov;204(3): p277-81. Verdorfer I; Rogatsch H, et al.
 Genomic and expression profiling of human spermatocytic seminomas: primary spermatocyte as tumorigenic precursor and DMRT1 as candidate chromosome 9 gene. *Cancer Res* 2006; Jan 1;66(1): p290-302. Looijenga LH; Hersmus R, et al.
 Spermatocytic seminoma: review of the literature and description of a new case of the anaplastic variant. *Int J Surg Pathol* 2011; Feb;19(1): p5-10. Lombardi M; Valli M; Brisigotti M; Rosai J.
 Population based incidence and age distribution of spermatocytic seminoma. *J Urol* 2007; Jul;178(1): p125-8. Carriere P; Baade P; Fritsch L.
 Spermatocytic seminoma. *Arch Pathol Lab Med* 2009; Dec;133(12): p1985-8. Aggarwal N; Parwani AV.
 A spermatocytic seminoma with rhabdomyosarcoma transformation and extensive metastases. *Am J Clin Oncol* 2007; Aug;30(4): p440-1. Robinson A; Bainbridge T, et al.
 The most common, clinically significant misdiagnoses in testicular tumor pathology, and how to avoid them. *Adv Anat Pathol* 2008; Jan;15(1): p18-27. Ulbright TM.

Case No. 3, Accession No. 14109

November 2012

Fontana (Kaiser Permanente) - Leiomyosarcoma
Glendale - Leiomyosarcoma
Hayward/Fremont (St. Rose Hospital) - Sarcomatoid carcinoma vs. myosarcoma, IHC
Long Beach (Long Beach, VA) - Epithelioid leiomyosarcoma with clear cell features
Oakland (ACMC) - Sarcomatoid carcinoma (dediff favor poorly diff TCC; cannot rule out rhabdomyosarcoma) (1); Sarcomatoid carcinoma (1)
Orange (Orange County Pathology Medical Group) - Leiomyosarcoma

Oxnard (St. John's Regional Medical Center) - Infiltrating urothelial carcinoma consistent with clear cell changes vs. sarcoma (1); MFH vs. leiomyosarcoma (1)

San Diego (Naval Medical Center) - Leiomyosarcoma

Santa Barbara (Miramonte Laboratory) - Clear cell leiomyosarcoma

Woodland Hills (Kaiser Permanente) - Leiomyosarcoma

Arkansas (Associated Pathologists Laboratory) - Leiomyosarcoma

Colorado (McKee Medical Center) - Malignant fibrous histiocytoma

Delaware (Armed Forces Medical Examiner System) - Leiomyosarcoma

Florida (GastroEnterology Associates of Ocala) - Inflammatory myoblastic tumor

Georgia, Atlanta - PEComa

Illinois (Heartland Regional Medical Center) - Spindle cell malignant neoplasm, favor sarcomatoid urothelial carcinoma

Illinois (Loyola University of Chicago) - Carcinosarcoma

Kansas (Peterson Laboratory Services) - Leiomyosarcoma

Maryland (University of Maryland) - Sarcomatoid carcinoma

Massachusetts (University of Massachusetts Medical Center) - Urothelial carcinoma, sarcomatoid

Minnesota (Fairview Ridges Hospital) - Leiomyosarcoma

Missouri (Missouri Delta Medical Center) - Leiomyosarcoma (2)

New York (Buffalo General Hospital) - Leiomyosarcoma of bladder

New York (Erie County Medical Center) - Inflammatory myofibroblastic tumor

New York (Downstate Medical Center) - Pleomorphic sarcoma

New York (Stony Brook University Medical Center) - Leiomyosarcoma

Ohio (Cleveland Clinic) - Malignant PEComa

Pennsylvania (Drexel University College of Medicine) - Leiomyosarcoma

Pennsylvania (Lehigh Valley Hospital) - Sarcomatoid carcinoma with heterologous elements

Pennsylvania (Magee Women's Hospital) - Sarcomatoid urothelial carcinoma, high grade

Puerto Rico (University of Puerto Rico) - Carcinosarcoma/infiltrating urothelial carcinoma with sarcomatoid variant without heterologous elements

South Carolina (Medical University of South Carolina) - Leiomyosarcoma

Tennessee (Molecular Pathology Laboratory Network) - Leiomyosarcoma

Texas (Crystal Beach) - Sarcomatoid carcinoma

Texas, Lubbock - Leiomyosarcoma

Washington (Seattle VAMC) - Leiomyosarcoma

Wisconsin, Madison - Sarcomatoid carcinoma

West Virginia (Greenbrier Valley Medical Center) - Myxoid leiomyosarcoma

Wisconsin (Medical Assessment and Consultation, SC) - Leiomyosarcoma

Wisconsin (Medical College of Wisconsin) - Sarcomatoid carcinoma

Australia (Royal Prince Alfred Hospital) - Malignant spindle cell neoplasm, favor sarcomatoid carcinoma; DDx PECOMA, sarcoma (1); Probable leiomyosarcoma (PEComa to be excluded)

Australia (St. Vincent's Hospital) - Sarcomatoid carcinoma

Canada (Pasqua Hospital) - Leiomyosarcoma

Canada, Sherbrooke - Leiomyosarcoma, urinary bladder

Ireland (Bon Secours Tralee) - Leiomyosarcoma

Ireland (Connolly Hospital) - High grade undifferentiated tumor

Ireland (Galway Residents) - Sarcomatoid carcinoma

Ireland (Kerry General Hospital) - Leiomyosarcoma

Japan (Setagaya-Ku) - Clear cell carcinoma

Japan (Asashi General Hospital) - Leiomyosarcoma (2)

Japan (University of Yamanashi) - Leiomyosarcoma

Oman (Sultanate of Azaiba) - Malignant neoplasm favoring leiomyosarcoma; DDx: Sarcomatoid variant urothelial carcinoma

Saudi Arabia (King Fahad Hospital, Hofuf) - Leiomyosarcoma, urinary bladder

Saudi Arabia (King Khalid University Hospital) - Epithelioid leiomyosarcoma

Singapore (Freelance/Locum Practice) - Leiomyosarcoma

Case 3 - Diagnosis:

Leiomyosarcoma, bladder
T-74000, M-88903

Case 3 - References:

Smooth muscle neoplasms of the urinary bladder: a clinicopathologic study of 51 cases. *Am J Surg Pathol* 2010; Apr;34(4): p502-9. Lee TK; Miyamoto H; Osunkoya AO; Guo CC; Weiss SW; Epstein JI.
A rare case of synchronous leiomyosarcoma and urothelial cancer of the bladder. *Can J Urol* 2008; Feb;15(1): p3920-3. Bakaris S; Resim S; Tasci AI; Demirpolat G.
Leiomyosarcoma of the urinary bladder: a clinicopathological study of 34 cases. *J Clin Pathol* 2010; Aug;63(8): p708-13. Lindberg MR; Fisher C; Thway K; Cao D; Cheville JC; Folpe AL
Leiomyosarcoma of the urinary bladder: a diagnostic challenge in urine cytology. *Diagn Cytopathol* 2004; Oct;31(4): p281-2. Hemachandran M; Nada R; Rajwanshi A.
Smooth muscle neoplasms of the urinary bladder: a clinicopathologic comparison of leiomyoma and leiomyosarcoma. *Am J Surg Pathol* 2002; Mar;26(3): p292-300. Martin SA; Sears DL; Sebo TJ; Lohse CM; Cheville JC.

Case No. 4, Accession No. 31433

November 2012

Fontana (Kaiser Permanente) - Pyelonephritis

Glendale - Abscess

Hayward/Fremont (St. Rose Hospital) - Acute pyelonephritis and abscess

Long Beach (Long Beach, VA) - Acute pyelonephritis with xanthogranulomatous pyelonephritis features

Oakland (ACMC) - Acute necrotizing inflammation with underlying chronic xanthomatous process (1); Granulocytic sarcoma (1)

Orange (Orange County Pathology Medical Group) - Acute pyelonephritis

Oxnard (St. John's Regional Medical Center) - Acute pyelonephritis (1); Angiomyolipoma (1)

San Diego (Naval Medical Center) - Xanthogranulomatous pyelonephritis

Santa Barbara (Miramonte Laboratory) - Severe acute nephritis

Woodland Hills (Kaiser Permanente) - Pyelonephritis

Arkansas (Associated Pathologists Laboratory) - Pyelonephritis

Colorado (McKee Medical Center) - Xanthogranulomatous pyelonephritis

Delaware (Armed Forces Medical Examiner System) - Acute pyelonephritis

Florida (GastroEnterology Associates of Ocala) - Acute pyelonephritis

Georgia, Atlanta - Xanthogranulomatous pyelonephritis

Illinois (Heartland Regional Medical Center) - Acute pyelonephritis

Illinois (Loyola University of Chicago) - Renal infection/infarction

Kansas (Peterson Laboratory Services) - Perinephric and interstitial abscess

Maryland (University of Maryland) - Abscess vs. myeloid sarcoma

Massachusetts (University of Massachusetts Medical Center) - Xanthogranulomatous pyelonephritis

Minnesota (Fairview Ridges Hospital) - Acute pyelonephritis with perinephric abscess

Missouri (Missouri Delta Medical Center) - Acute pyelonephritis (2)

New York (Buffalo General Hospital) - Acute pyelonephritis with abscess

New York (Erie County Medical Center) - Acute pyelonephritis

New York (Downstate Medical Center) - Abscess

New York (Stony Brook University Medical Center) - Acute pyelonephritis

Ohio (Cleveland Clinic) - Acute pyelonephritis

Pennsylvania (Drexel University College of Medicine) - Acute pyelonephritis with papillary necrosis

Pennsylvania (Lehigh Valley Hospital) - Xanthogranulomatous pyelonephritis

Pennsylvania (Magee Women's Hospital) - Renal infarction and abscess

Puerto Rico (University of Puerto Rico) - Acute pyelonephritis rule out parasitic infection

South Carolina (Medical University of South Carolina) - Acute pyelonephritis

Tennessee (Molecular Pathology Laboratory Network) - Angiomyolipoma

Texas (Crystal Beach) - Myelogenous leukemia

Texas, Lubbock - Acute pyelonephritis

Washington (Seattle VAMC) - Necrotizing pyelonephritis histiocytic inclusions

Wisconsin, Madison - Acute pyelonephritis
West Virginia (Greenbrier Valley Medical Center) - Acute pyelonephritis
Wisconsin (Medical Assessment and Consultation, SC) - Acute pyelonephritis with necrosis and abscess, rule out infection
Wisconsin (Medical College of Wisconsin) - Acute suppurative pyelonephritis
Australia (Royal Prince Alfred Hospital) - Renal infarct and severe acute pyelonephritis (papillary necrosis), diabetes (1); Acute pyelonephritis with abscess formation (1)
Australia (St. Vincent's Hospital) - Xanthoma
Canada (Pasqua Hospital) - Pyelonephritis
Canada, Sherbrooke - Acute pyelonephritis with abscess
Ireland (Bon Secours Tralee) - Acute pyelonephritis
Ireland (Connolly Hospital) - Severe acute inflammation with abscess formation
Ireland (Galway Residents) - Acute pyelonephritis with coagulative necrosis
Ireland (Kerry General Hospital) - Acute and chronic pyelonephritis, distal obstruction
Japan (Setagaya-Ku) - Pyelonephritis
Japan (Asashi General Hospital) - Diectophyme renal infection (1); Collecting duct carcinoma (1)
Japan (University of Yamanashi) - Renal abscess
Oman (Sultanate of Azaiba) - Myeloid leukemia, DDx: pyelonephritis
Saudi Arabia (King Fahad Hospital, Hofuf) - Acute bacterial pyelonephritis
Saudi Arabia (King Khalid University Hospital) - Fulminant acute pyelonephritis with abscess formation and tubular necrosis
Singapore (Freelance/Locum Practice) - Kidney infarct

Case 4 - Diagnosis:

Acute and chronic pyelonephritis, kidney
 T-71000, M-43000

Case 4 - References:

Xanthogranulomatous pyelonephritis and malacoplakia of the bladder in a middle aged female. *J Nephrol* 2006; Mar-Apr;19(2): p222-4. Wu IW; Yu CC, et al.
 Bacterial characteristics in relation to clinical source of Escherichia coli isolates from women with acute cystitis or pyelonephritis and uninfected women. *J Clin Microbiol* 2005; Dec;43(12): p6064-72. Johnson JR; Owens K, et al.
 Risk factors associated with acute pyelonephritis in healthy women. *J Urol* 2005; Nov;174(5): p1841. Berger RE.
 Pyelonephritis and acute renal failure. *Am J Med Sci* 2004; Aug;328(2): p121-3. Nahar A; Akom M, et al.
 Emphysematous pyelonephritis in a kidney allograft. *Am J Kidney Dis* 2009; May;53(5): p895-7. Schmidt S; Foert E, et al.
 Emphysematous pyelonephritis with acute renal failure. *Urology* 2008; Sep;72(3): p521-2. Chung SD; Liao CH, et al.

Case No. 5, Accession No. 31351

November 2012

Fontana (Kaiser Permanente) - Congenital mesoblastic nephroma
Glendale - Congenital mesoblastic nephroma
Hayward/Fremont (St. Rose Hospital) - Congenital mesoblastic nephroma
Long Beach (Long Beach, VA) - Mesoblastic nephroma
Oakland (ACMC) - Mesoblastic nephroma (neuroblastoma) (1); Mesoblastic nephroma (1)
Orange (Orange County Pathology Medical Group) - Mesoblastic nephroma
Oxnard (St. John's Regional Medical Center) - Congenital mesoblastic nephroma (2)
San Diego (Naval Medical Center) - Congenital mesoblastic nephroma
Santa Barbara (Miramonte Laboratory) - Clear cell sarcoma
Woodland Hills (Kaiser Permanente) - Congenital mesoblastic nephroma
Arkansas (Associated Pathologists Laboratory) - Mesoblastic nephroma
Colorado (McKee Medical Center) - Wilm's tumor
Delaware (Armed Forces Medical Examiner System) - Mesoblastic nephroma
Florida (GastroEnterology Associates of Ocala) - Clear cell sarcoma of kidney
Georgia, Atlanta - Mesoblastic nephroma

Illinois (Heartland Regional Medical Center) - Congenital mesoblastic nephroma, predominantly cellular type
Illinois (Loyola University of Chicago) - Congenital mesoblastic nephroma
Kansas (Peterson Laboratory Services) - Mesoblastic nephroma
Maryland (University of Maryland) - Congenital mesoblastic nephroma
Massachusetts (University of Massachusetts Medical Center) - Congenital mesoblastic nephroma
Minnesota (Fairview Ridges Hospital) - Congenital mesoblastic nephroma
Missouri (Missouri Delta Medical Center) - Mesoblastic nephroma (2)
New York (Buffalo General Hospital) - Congenital mesoblastic nephroma, cellular type
New York (Erie County Medical Center) - Congenital mesoblastic nephroma with embryonal metaplasia
New York (Downstate Medical Center) - Mesoblastic nephroma
New York (Stony Brook University Medical Center) - Mesoblastic nephroma
Ohio (Cleveland Clinic) - Congenital mesoblastic nephroma
Pennsylvania (Drexel University College of Medicine) - Congenital mesoblastic nephroma, cellular type
Pennsylvania (Lehigh Valley Hospital) - Cystic partly differentiated nephroblastoma
Pennsylvania (Magee Women's Hospital) - Mesoblastic nephroma
Puerto Rico (University of Puerto Rico) - Congenital mesoblastic nephroma/cystic partially differentiated nephroblastoma
South Carolina (Medical University of South Carolina) - Congenital mesoblastic nephroma
Tennessee (Molecular Pathology Laboratory Network) - Congenital mesoblastic nephroma
Texas (Crystal Beach) - Mesoblastic nephroma
Texas, Lubbock - Wilm's tumor favorable histology
Washington (Seattle VAMC) - Wilm's tumor
Wisconsin, Madison - Congenital mesoblastic nephroma
West Virginia (Greenbrier Valley Medical Center) - Mesoblastic nephroma
Wisconsin (Medical Assessment and Consultation, SC) - Congenital mesoblastic nephroma
Wisconsin (Medical College of Wisconsin) - Congenital mesoblastic nephroma
Australia (Royal Prince Alfred Hospital) - Mesoblastic nephroma (2)
Australia (St. Vincent's Hospital) - Mesoblastic nephroma
Canada (Pasqua Hospital) - Mesoblastic nephroma
Canada, Sherbrooke - Teratoid Wilm's tumor, kidney
Ireland (Bon Secours Tralee) - Cellular mesoblastic nephroma
Ireland (Connolly Hospital) - Nephroblastoma
Ireland (Galway Residents) - Mesoblastic nephroma
Ireland (Kerry General Hospital) - Mesoblastic nephroma
Japan (Setagaya-Ku) - Congenital mesoblastic nephroma
Japan (Asahi General Hospital) - Nephroblastoma (1); Congenital mesoblastic nephroma (1)
Japan (University of Yamanashi) - Nephroblastoma
Oman (Sultanate of Azaiba) - Congenital mesoblastic nephroma
Saudi Arabia (King Fahad Hospital, Hofuf) - Mesoblastic nephroma, mixed cellular and classic type, left kidney
Saudi Arabia (King Khalid University Hospital) - Mesoblastic nephroma
Singapore (Freelance/Locum Practice) - Congenital mesoblastic nephroma, infantile type

Case 5 - Diagnosis:

Congenital mesoblastic nephroma, kidney
 T-71000, M-89601

Case 5 - References:

Congenital mesoblastic nephroma. *J Urol* 2010; Mar;183(3): p1188-9. Gruver AM; Hansel DE, et al.
 Clear cell sarcoma, cellular mesoblastic nephroma and metanephric adenoma: cytological features and differential diagnosis with Wilms tumour. *Cytopathology* 2008; Apr;19(2): p80-5. Portugal R; Barroca H.
 Mesoblastic nephroma: a report of the United Kingdom Children's Cancer and Leukaemia Group (CCLG). *Pediatr Blood Cancer* 2011; May;56(5): p744-8. England RJ; Haider N, et al.
 Cellular mesoblastic nephroma in an infant: report of the cytologic diagnosis of a rare paediatric renal tumor. *Diagn Cytopathol* 2009; May;37(5): p377-80. Gupta R; Mathur SR; Singh P; Agarwala S; Gupta SD.
 Multicystic congenital mesoblastic nephroma. *Int J Surg Pathol* 2002; Jan;10(1): p59-63. Drut R.
 Recent advances in pediatric renal neoplasia. *Adv Anat Pathol* 2003; Sep;10(5): p243-60. Argani P; Ladanyi M.

Fontana (Kaiser Permanente) - Chromophobe renal cell carcinoma
Glendale - Chromophobe renal cell carcinoma
Hayward/Fremont (St. Rose Hospital) - Chromophobe carcinoma
Long Beach (Long Beach, VA) - Renal cell carcinoma, chromophobe type
Oakland (ACMC) - Renal cell carcinoma, low grade (granular cell type, doubt oncocytoma) (2)
Orange (Orange County Pathology Medical Group) - Oncocytoma
Oxnard (St. John's Regional Medical Center) - Oncocytoma (2)
San Diego (Naval Medical Center) - Chromophobe
Santa Barbara (Miramonte Laboratory) - Oncocytoma
Woodland Hills (Kaiser Permanente) - Oncocytoma
Arkansas (Associated Pathologists Laboratory) - Chromophobe renal cell carcinoma
Colorado (McKee Medical Center) - Chromophobe renal cell carcinoma
Delaware (Armed Forces Medical Examiner System) - Oncocytic renal neoplasm, favor chromophobe renal cell carcinoma
Florida (GastroEnterology Associates of Ocala) - Oncocytoma
Georgia, Atlanta - Oncocytoma
Illinois (Heartland Regional Medical Center) - Chromophobe renal cell carcinoma
Illinois (Loyola University of Chicago) - Oncocytic hybrid tumor
Kansas (Peterson Laboratory Services) - Chromophobe renal cell carcinoma
Maryland (University of Maryland) - Oncocytoma vs. chromophobe
Massachusetts (University of Massachusetts Medical Center) - Chromophobe renal cell carcinoma
Minnesota (Fairview Ridges Hospital) - Chromophobe renal cell carcinoma
Missouri (Missouri Delta Medical Center) - Oncocytoma (2)
New York (Buffalo General Hospital) - Chromophobe renal cell carcinoma
New York (Erie County Medical Center) - Oncocytoma
New York (Downstate Medical Center) - Chromophobe renal cell carcinoma
New York (Stony Brook University Medical Center) - Oncocytoma
Ohio (Cleveland Clinic) - Chromophobe renal cell carcinoma
Pennsylvania (Drexel University College of Medicine) - Oncocytoma
Pennsylvania (Lehigh Valley Hospital) - Chromophobe renal cell carcinoma
Pennsylvania (Magee Women's Hospital) - Oncocytoma
Puerto Rico (University of Puerto Rico) - Chromophobe renal cell carcinoma
South Carolina (Medical University of South Carolina) - Chromophobe renal cell carcinoma
Tennessee (Molecular Pathology Laboratory Network) - Oncocytoma
Texas (Crystal Beach) - Chromophobe cell carcinoma
Texas, Lubbock - Chromophobe carcinoma
Washington (Seattle VAMC) - Oncocytoma
Wisconsin, Madison - Chromophobe renal cell carcinoma
West Virginia (Greenbrier Valley Medical Center) - Chromophobe renal cell carcinoma
Wisconsin (Medical Assessment and Consultation, SC) - Favor oncocytoma
Wisconsin (Medical College of Wisconsin) - Chromophobe renal cell carcinoma
Australia (Royal Prince Alfred Hospital) - Chromophobe renal cell carcinoma (2)
Australia (St. Vincent's Hospital) - Chromophobe renal cell carcinoma
Canada (Pasqua Hospital) - Chromophobe carcinoma
Canada, Sherbrooke - Chromophobe carcinoma, kidney
Ireland (Bon Secours Tralee) - Chromophobe renal cell carcinoma
Ireland (Connolly Hospital) - Chromophobe carcinoma
Ireland (Galway Residents) - Chromophobe carcinoma
Ireland (Kerry General Hospital) - Chromophobe renal carcinoma
Japan (Setagaya-Ku) - Renal cell carcinoma, chromophobe
Japan (Asashi General Hospital) - Chromophobe renal cell carcinoma (1) Renal cell carcinoma (1)
Japan (University of Yamanashi) - Chromophobe renal cell carcinoma
Oman (Sultanate of Azaiba) - Oncocytoma
Saudi Arabia (King Fahad Hospital, Hofuf) - Chromophobe renal cell carcinoma, left kidney
Saudi Arabia (King Khalid University Hospital) - Renal cell carcinoma, chromophobe type

Singapore (Freelance/Locum Practice) - Chromophobe renal cell carcinoma

Case 6 - Diagnosis:

Renal tumor, favor oncocytoma, cannot exclude chromophobe renal cell carcinoma, kidney
T-71000, M-82900

Case 6 - References:

C-kit expression in renal oncocytomas and chromophobe renal cell carcinomas. *Hum Pathol* 2005; Mar;36(3): p262-8. Huo L; Sugimura J, et al.
Diagnostic value of cytokeratin 7 and parvalbumin in differentiating chromophobe renal cell carcinoma from renal oncocytoma. *Anal Quant Cytol Histol* 2006; Aug;28(4): p228-36. Adley BP; Papavero V, et al.
Cytokeratin 7: a useful adjunct in the diagnosis of chromophobe renal cell carcinoma. *Histopathology* 2002; Jun;40(6): p563-7. Mathers ME; Pollock AM; Marsh C; O'Donnell M.
Oncocytic renal neoplasms: diagnostic considerations. *Clin Lab Med* 2005; Jun;25(2): p317-39, vi. Abrahams NA; Tamboli P
Immunohistochemical analysis of chromophobe renal cell carcinoma, renal oncocytoma, and clear cell carcinoma: an optimal and practical panel for differential diagnosis. *Arch Pathol Lab Med* 2007; Aug;131(8): p1290-7. Liu L; Qian J; Singh H; Meiers I; Zhou X; Bostwick DG.
Hybrid tumour 'oncocytoma-chromophobe renal cell carcinoma' of the kidney: a report of seven sporadic cases. *BJU Int* 2009; May;103(10): p1381-4. Delongchamps NB; Galmiche L, et al.

Case No. 7, Accession No. 31506

November 2012

Fontana (Kaiser Permanente) - Cystic nephroma

Glendale - Cystic nephroma

Hayward/Fremont (St. Rose Hospital) - Cystic nephroma

Long Beach (Long Beach, VA) - Cystic nephroma

Oakland (ACMC) - Cystic renal tumor, favor cystic type renal cell carcinoma, low grade (focal clear cell features) (1);
Cystic nephroma (1)

Orange (Orange County Pathology Medical Group) - Cystic nephroma

Oxnard (St. John's Regional Medical Center) - Cystic nephroma (1) Mixed epithelial stromal tumor (1)

San Diego (Naval Medical Center) - Cystic nephroma

Santa Barbara (Miramonte Laboratory) - Adult polycystic kidney disease

Woodland Hills (Kaiser Permanente) - Cystic nephroma/mixed epithelial and stromal tumor

Arkansas (Associated Pathologists Laboratory) - Cystic nephroma

Colorado (McKee Medical Center) - Mixed epithelial stromal tumor

Delaware (Armed Forces Medical Examiner System) - Cystic nephroma

Florida (GastroEnterology Associates of Ocala) - Cystic nephroma

Georgia, Atlanta - Cystic nephroma

Illinois (Heartland Regional Medical Center) - Multilocular cyst (benign cystic nephroma)

Illinois (Loyola University of Chicago) - Renal epithelial and stromal tumor

Kansas (Peterson Laboratory Services) - Cystic nephroma

Maryland (University of Maryland) - Cystic nephroma

Massachusetts (University of Massachusetts Medical Center) - Cystic nephroma/mixed epithelial stromal tumor

Minnesota (Fairview Ridges Hospital) - Mixed epithelial and stromal tumor

Missouri (Missouri Delta Medical Center) - Cystic nephroma (2)

New York (Buffalo General Hospital) - Mixed epithelial and stromal tumor

New York (Erie County Medical Center) - Cystic nephroma

New York (Downstate Medical Center) - Mixed epithelial and stromal tumor

New York (Stony Brook University Medical Center) - Cystic nephroma

Ohio (Cleveland Clinic) - Cystic nephroma

Pennsylvania (Drexel University College of Medicine) - Cystic nephroma

Pennsylvania (Lehigh Valley Hospital) - Mixed epithelial and stromal tumor

Pennsylvania (Magee Women's Hospital) - Cystic nephroma

Puerto Rico (University of Puerto Rico) - Cystic nephroma/mixed epithelial and stromal tumor

South Carolina (Medical University of South Carolina) - Cystic nephroma
Tennessee (Molecular Pathology Laboratory Network) - Cystic nephroma
Texas (Crystal Beach) - Multicystic nephroma
Texas, Lubbock - Multilocular cyst
Washington (Seattle VAMC) - Localized cystic disease/adenofibroma
Wisconsin, Madison - Multilocular cystic nephroma
West Virginia (Greenbrier Valley Medical Center) - Multilocular cystic renal cell carcinoma
Wisconsin (Medical Assessment and Consultation, SC) - Benign multilocular cyst (cystic nephroma)
Wisconsin (Medical College of Wisconsin) - Mixed epithelial and stromal tumor
Australia (Royal Prince Alfred Hospital) - Mixed epithelial stromal cell tumor kidney (1); Cystic nephroma (multilocular cyst)
Australia (St. Vincent's Hospital) - Mixed epithelial stromal tumor
Canada (Pasqua Hospital) - Cystic nephroma
Canada, Sherbrooke - Cystic nephroma, kidney
Ireland (Bon Secours Tralee) - Cystic nephroma
Ireland (Connolly Hospital) - Cystic nephroma
Ireland (Galway Residents) - Cystic nephroma
Ireland (Kerry General Hospital) - Multicystic nephroma
Japan (Setagaya-Ku) - Cystic nephroma
Japan (Asashi General Hospital) - Mixed epithelial and stromal tumor (1); Cystic nephroma (1)
Japan (University of Yamanashi) - Cystic nephroma
Oman (Sultanate of Azaiba) - Cystic nephroma
Saudi Arabia (King Fahad Hospital, Hofuf) - Mixed epithelial and stromal tumor, right renal mass
Saudi Arabia (King Khalid University Hospital) - Cystic nephroma
Singapore (Freelance/Locum Practice) - Cystic nephroma

Case 7 - Diagnosis:

Renal epithelial and stromal tumor (REST), kidney
T-71000, M-85901

Consultation: Dr. Mahul Amin: "Renal epithelial and stromal tumor (REST)"

Case 7 - References:

Cystic nephroma and mixed epithelial and stromal tumor of kidney: a detailed clinicopathologic analysis of 34 cases and proposal for renal epithelial and stromal tumor (REST) as a unifying term. *Am J Surg Pathol* 2007; Apr;31(4):p489-500. Turbinder J; Amin MB, et al.
 Mixed epithelial and stromal tumour (MEST) of the kidney: report of 14 cases with male and PEComatous variants and proposed histopathogenesis. *Pathology* 2007; Apr;39(2): p235-40. Mai KT; Elkeilani A; Veinot JP.
 Mixed epithelial and stromal tumor of the kidney with elevated serum level of cancer antigen 125. *J Formos Med Assoc* (China 2011; Feb;110(2): p125-8. Liu CH; Yu CC; Chang CR; Wu TT; Huang JK.
 Diffuse expression of PAX2 and PAX8 in the cystic epithelium of mixed epithelial stromal tumor, angiomyolipoma with epithelial cysts, and primary renal synovial sarcoma: evidence supporting renal tubular differentiation. *Am J Surg Pathol* 2011 Sep;35(9): p1264-73. Karafin M; Parwani AV; Epstein JI; M; Argani P

Case No. 8, Accession No. 31500

November 2012

Fontana (Kaiser Permanente) - Mucinous tubular and spindle cell renal cell carcinoma
Glendale - Collecting duct carcinoma
Hayward/Fremont (St. Rose Hospital) - Mixed epithelial and stromal tumor
Long Beach (Long Beach, VA) - Collecting duct carcinoma
Oakland (ACMC) - Renal cell carcinoma, high grade, sarcomatoid clear cell features (1); Collecting duct carcinoma (1)
Orange (Orange County Pathology Medical Group) - Collecting duct carcinoma
Oxnard (St. John's Regional Medical Center) - Collecting duct carcinoma (1); Renal cell carcinoma consistent with sarcoma features (1)

San Diego (Naval Medical Center) - Collecting duct carcinoma
Santa Barbara (Miramonte Laboratory) - Collecting duct carcinoma
Woodland Hills (Kaiser Permanente) - Collecting duct carcinoma
Arkansas (Associated Pathologists Laboratory) - Poorly differentiated collecting duct carcinoma
Colorado (McKee Medical Center) - Collecting duct carcinoma
Delaware (Armed Forces Medical Examiner System) - Collecting duct carcinoma
Florida (GastroEnterology Associates of Ocala) - Medullary carcinoma
Georgia, Atlanta - Collecting duct carcinoma
Illinois (Heartland Regional Medical Center) - Renal cell carcinoma, collecting duct type
Illinois (Loyola University of Chicago) - Collecting duct type
Kansas (Peterson Laboratory Services) - Collecting duct carcinoma
Maryland (University of Maryland) - Collecting duct carcinoma
Massachusetts (University of Massachusetts Medical Center) - Collecting duct carcinoma
Minnesota (Fairview Ridges Hospital) - Collecting duct renal cell carcinoma
Missouri (Missouri Delta Medical Center) - Carcinosarcoma (1); Sarcomatoid renal cell carcinoma (1)
New York (Buffalo General Hospital) - Carcinoma of collecting ducts of Bellini
New York (Erie County Medical Center) - Collecting duct carcinoma
New York (Downstate Medical Center) - Collecting duct carcinoma
New York (Stony Brook University Medical Center) - Collecting duct carcinoma
Ohio (Cleveland Clinic) - Collecting duct carcinoma
Pennsylvania (Drexel University College of Medicine) - Collecting duct carcinoma
Pennsylvania (Lehigh Valley Hospital) - Medullary carcinoma
Pennsylvania (Magee Women's Hospital) - Collecting duct carcinoma
Puerto Rico (University of Puerto Rico) - Carcinoma of the collecting duct of Bellini
South Carolina (Medical University of South Carolina) - Collecting duct carcinoma
Tennessee (Molecular Pathology Laboratory Network) - Collecting duct carcinoma
Texas (Crystal Beach) - Renal carcinoma collecting duct possible
Texas, Lubbock - Collecting duct carcinoma
Washington (Seattle VAMC) - Carcinoma with high grade tubular growth pattern
Wisconsin, Madison - Sarcomatoid carcinoma consistent with collecting duct carcinoma
West Virginia (Greenbrier Valley Medical Center) - Angiomyolipoma
Wisconsin (Medical Assessment and Consultation, SC) - Sarcomatoid renal cell carcinoma
Wisconsin (Medical College of Wisconsin) - Collecting duct carcinoma
Australia (Royal Prince Alfred Hospital) - Collecting duct carcinoma (1); Renal cell carcinoma, collecting duct type (1)
Australia (St. Vincent's Hospital) - Collecting duct carcinoma
Canada (Pasqua Hospital) - Renal medullary carcinoma
Canada, Sherbrooke - Collecting duct vs. medullary carcinoma
Ireland (Bon Secours Tralee) - Collecting duct carcinoma
Ireland (Connolly Hospital) - Collecting duct carcinoma
Ireland (Galway Residents) - Collecting duct carcinoma
Ireland (Kerry General Hospital) - Collecting duct carcinoma
Japan (Setagaya-Ku) - Collecting duct carcinoma
Japan (Asahi General Hospital) - Renal medullary carcinoma (1); Collecting duct carcinoma (1)
Japan (University of Yamanashi) - Mucinous tubular and spindle cell carcinoma
Oman (Sultanate of Azaiba) - DDX: renal medullary carcinoma; (1); Carcinoma of the collecting duct of Bellini (1)
Saudi Arabia (King Fahad Hospital, Hofuf) - Collecting duct carcinoma, kidney
Saudi Arabia (King Khalid University Hospital) - Renal cell carcinoma, (conventional)
Singapore (Freelance/Locum Practice) - Collecting duct carcinoma

Case 8 - Diagnosis:

Collecting duct carcinoma, kidney
 T-71000, M-85003

Case 8 - References:

Cytological features of carcinoma of the collecting ducts of Bellini in voided urine cytology. *Diagn Cytopathol* 2009; Sep;37(9): p676-9. Ohsaki H; Hirakawa E, et al.

Collecting duct carcinoma of the kidney: an immunohistochemical evaluation of the use of antibodies for differential diagnosis. *Hum Pathol* 2008 Sep;39(9): p1350-9. Kobayashi N; Matsuzaki O, et al.

Fine needle aspiration cytology of collecting duct carcinoma of the kidney: report of a case with distinctive features and differential diagnosis. *Acta Cytol* 2004 Nov-Dec;48(6): p843-8. Sarode VR; Islam S, et al.

New cytological findings on fine-needle aspiration of renal collecting duct carcinoma. *Diagn Cytopathol* 2003; Oct;29(4): p239-40. Sironi M; Delpiano C; Claren R; Spinelli M.

Collecting duct (Bellini duct) renal cell carcinoma: a nationwide survey in Japan. *J Urol* 2006; Jul;176(1): p40-3; discussion 43. Tokuda N; Naito S; Matsuzaki O; Nagashima Y; Ozono S; Igarashi T.

Case No. 9, Accession No. 31336

November 2012

Fontana (Kaiser Permanente) - Clear cell, renal cell carcinoma

Glendale - Clear cell, renal cell carcinoma

Hayward/Fremont (St. Rose Hospital) - Renal cell carcinoma, Fuhrman 2

Long Beach (Long Beach, VA) - Renal cell carcinoma, clear cell type

Oakland (ACMC) - Renal cell carcinoma, clear cell type, high grade (2)

Orange (Orange County Pathology Medical Group) - Clear cell, renal cell carcinoma

Oxnard (St. John's Regional Medical Center) - Clear cell, renal cell carcinoma (2)

San Diego (Naval Medical Center) - Renal cell carcinoma, clear cell

Santa Barbara (Miramonte Laboratory) - Renal cell carcinoma

Woodland Hills (Kaiser Permanente) - Renal cell carcinoma, classic type

Arkansas (Associated Pathologists Laboratory) - Clear cell, renal cell carcinoma

Colorado (McKee Medical Center) - Renal cell carcinoma, clear cell type

Delaware (Armed Forces Medical Examiner System) - Clear cell, renal cell carcinoma

Florida (GastroEnterology Associates of Ocala) - Chromophobe renal cell carcinoma

Georgia, Atlanta - Clear cell conventional renal cell carcinoma

Illinois (Heartland Regional Medical Center) - Renal cell carcinoma, clear cell type, Fuhrman, Grade 3

Illinois (Loyola University of Chicago) - Renal cell carcinoma, clear cell type

Kansas (Peterson Laboratory Services) - Renal cell carcinoma

Maryland (University of Maryland) - Renal cell carcinoma, clear cell type

Massachusetts (University of Massachusetts Medical Center) - Clear cell, renal cell carcinoma

Minnesota (Fairview Ridges Hospital) - Clear cell, renal cell carcinoma

Missouri (Missouri Delta Medical Center) - Renal cell carcinoma, clear cell, Fuhrman, Grade 2 (2)

New York (Buffalo General Hospital) - Clear cell, renal cell carcinoma

New York (Erie County Medical Center) - Renal cell carcinoma, clear cell type

New York (Downstate Medical Center) - Clear cell renal cell carcinoma

New York (Stony Brook University Medical Center) - Renal cell clear cell carcinoma

Ohio (Cleveland Clinic) - Clear cell, renal cell carcinoma

Pennsylvania (Drexel University College of Medicine) - Clear cell renal cell carcinoma

Pennsylvania (Lehigh Valley Hospital) - Clear cell, renal cell carcinoma

Pennsylvania (Magee Women's Hospital) - Clear cell carcinoma

Puerto Rico (University of Puerto Rico) - Clear cell carcinoma of the kidney

South Carolina (Medical University of South Carolina) - Clear cell, renal cell carcinoma

Tennessee (Molecular Pathology Laboratory Network) - Clear cell, renal cell carcinoma, Fuhrman nuclear grade 1

Texas (Crystal Beach) - Clear cell carcinoma

Texas, Lubbock - Renal cell carcinoma, clear cell type

Washington (Seattle VAMC) - Renal cell carcinoma with clear cell growth pattern

Wisconsin, Madison - Clear cell, renal cell carcinoma, rule out chromophobe renal cell carcinoma

West Virginia (Greenbrier Valley Medical Center) - Hypernephroma, clear cell

Wisconsin (Medical Assessment and Consultation, SC) - Clear cell carcinoma

Wisconsin (Medical College of Wisconsin) - Clear cell carcinoma

Australia (Royal Prince Alfred Hospital) - Clear cell, renal cell carcinoma (2)

Australia (St. Vincent's Hospital) - Clear cell, renal cell carcinoma

Canada (Pasqua Hospital) - Clear cell carcinoma

Canada, Sherbrooke - Clear cell, renal cell carcinoma, kidney

Ireland (Bon Secours Tralee) - Clear cell, renal cell carcinoma
Ireland (Connolly Hospital) - Clear cell carcinoma
Ireland (Galway Residents) - Clear cell carcinoma
Ireland (Kerry General Hospital) - Clear cell, renal cell carcinoma
Japan (Setagaya-Ku) - Clear cell carcinoma
Japan (Asashi General Hospital) - Clear cell, renal cell carcinoma (2)
Japan (University of Yamanashi) - Clear cell carcinoma
Oman (Sultanate of Azaiba) - Clear cell, renal cell carcinoma
Saudi Arabia (King Fahad Hospital, Hofuf) - Clear cell, renal cell carcinoma, right kidney
Saudi Arabia (King Khalid University Hospital) - Renal cell carcinoma, conventional
Singapore (Freelance/Locum Practice) - Conventional renal cell carcinoma

Case 9 - Diagnosis:

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

Director's comment: case was filed as having a Fuhrman 2 nuclear grade (drc)

Case 9 - References:

Metastatic renal cell carcinoma to the oral cavity and clear cell mucoepidermoid carcinoma: comparative clinicopathologic and immunohistochemical study. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod* 2010; Apr;109(4): pe22-7. Pires FR; Azevedo RS, et al.
 A novel tumor grading scheme for chromophobe renal cell carcinoma: prognostic utility and comparison with Fuhrman nuclear grade. *Am J Surg Pathol* 2010; Sep;34(9): p1233-40. Paner GP; Amin MB, et al.
 Conventional clear renal cell carcinoma with granulomatous reaction. *Indian J Pathol Microbiol* 2010; Apr-Jun;53(2): p379-80. Shah VB; Sharma P; Pathak HR
 Prognostic value of cytogenetic analysis in clear cell renal carcinoma: a study on 131 patients with long-term follow-up. *Anticancer Res* 2010; Nov;30(11): p4705-9. Antonelli A; Arrighi N, et al.
 Distinguishing primary and metastatic conventional renal cell carcinoma from other malignant neoplasms in fine-needle aspiration biopsy specimens. *Arch Pathol Lab Med* 2005; Aug;129(8): p1017-21. Tabatabai ZL; Staerckel GA.
 Adult rhabdoid renal cell carcinoma.. *Arch Pathol Lab Med* 2002; Dec;126(12): p1506-10. Shannon B; Stan Wisniewski Z; Bentel J; Cohen RJ.

Case No. 10, Accession No. 31337

November 2012

Fontana (Kaiser Permanente) - Wilms tumor
Glendale - Wilms
Hayward/Fremont (St. Rose Hospital) - Wilms tumor
Long Beach (Long Beach, VA) - Wilms tumor
Oakland (ACMC) - Nephroblastoma (Wilms, poorly diff) (2)
Orange (Orange County Pathology Medical Group) - Wilms tumor
Oxnard (St. John's Regional Medical Center) - Triphasic nephroblastoma (Wilms) (2)
San Diego (Naval Medical Center) - Wilms tumor
Santa Barbara (Miramonte Laboratory) - Nephroblastoma
Woodland Hills (Kaiser Permanente) - Nephroblastoma
Arkansas (Associated Pathologists Laboratory) - Nephroblastoma
Colorado (McKee Medical Center) - Nephroblastoma
Delaware (Armed Forces Medical Examiner System) - Wilms tumor
Florida (GastroEnterology Associates of Ocala) - Wilms tumor
Georgia, Atlanta - Nephroblastoma/Wilms tumor
Illinois (Heartland Regional Medical Center) - Nephroblastoma
Illinois (Loyola University of Chicago) - Wilms tumor
Kansas (Peterson Laboratory Services) - Nephroblastoma
Maryland (University of Maryland) - Nephroblastoma, Wilms tumor

Massachusetts (University of Massachusetts Medical Center) - Wilms tumor
Minnesota (Fairview Ridges Hospital) - Nephroblastoma
Missouri (Missouri Delta Medical Center) - Wilms tumor
New York (Buffalo General Hospital) - Wilms tumor, triphasic
New York (Erie County Medical Center) - Nephroblastoma
New York (Downstate Medical Center) - Wilms tumor
New York (Stony Brook University Medical Center) - Wilms tumor
Ohio (Cleveland Clinic) - Wilms tumor
Pennsylvania (Drexel University College of Medicine) - Wilms tumor, favorable
Pennsylvania (Lehigh Valley Hospital) - Nephroblastoma
Pennsylvania (Magee Women's Hospital) - Nephroblastoma (Wilms tumor)
Puerto Rico (University of Puerto Rico) - Wilms tumor, favorable histology
South Carolina (Medical University of South Carolina) - Wilms tumor
Tennessee (Molecular Pathology Laboratory Network) - Nephroblastoma, basaloid blastemal pattern
Texas (Crystal Beach) - Wilms tumor
Texas, Lubbock - Wilms tumor, favorable histology
Washington (Seattle VAMC) - Wilms tumor
Wisconsin, Madison - Wilms tumor
West Virginia (Greenbrier Valley Medical Center) - Wilms tumor
Wisconsin (Medical Assessment and Consultation, SC) - Nephroblastoma (Wilms tumor)
Wisconsin (Medical College of Wisconsin) - Wilms tumor, favorable histology
Australia (Royal Prince Alfred Hospital) - Wilms tumor (2)
Australia (St. Vincent's Hospital) - Nephroblastoma
Canada (Pasqua Hospital) - Nephroblastoma
Canada, Sherbrooke - Wilms tumor, kidney
Ireland (Bon Secours Tralee) - Wilms tumor
Ireland (Connolly Hospital) - Nephroblastoma
Ireland (Galway Residents) - Nephroblastoma
Ireland (Kerry General Hospital) - Wilms tumor
Japan (Setagaya-Ku) - Nephroblastoma
Japan (Asashi General Hospital) - Nephroblastoma (1); Wilms tumor (1)
Japan (University of Yamanashi) - Nephroblastoma
Oman (Sultanate of Azaiba) - Nephroblastoma (Wilms tumor)
Saudi Arabia (King Fahad Hospital, Hofuf) - Wilms tumor, left kidney
Saudi Arabia (King Khalid University Hospital) - Wilms tumor/nephroblastoma
Singapore (Freelance/Locum Practice) - Wilms tumor

Case 10 - Diagnosis:

Wilms tumor (nephroblastoma) – favorable histology, kidney
 T-71000, M-89603

Case 10 - References:

Pathology, genetics and cytogenetics of Wilms' tumour.. *Pathology* 2011;111 Jun;43(4): p302-12. Md Zin R; Murch A; Charles A.
 Distinct features of teratoid Wilms tumor. *J Pediatr Surg* 2010; Oct;45(10): pe13-9. Sultan I; Ajlouni F, et al.
 Fine needle aspiration cytology of fetal rhabdomyomatous and teratoid Wilms tumor. *Acta Cytol* 2010 Jul-Aug;54(4): p563-8. Nayak A; Iyer VK; Agarwal S; Agarwala S.
 Adult Wilms tumor during gestational period. *Urology* 2009; Apr;73(4): p929.e1-2. Rodrigues FA; Ribeiro EC, et al.
 C-kit protein expression in Wilms' tumour: an immunohistochemical study. *Eur J Surg Oncol* 2009; Jun;35(6): p629-35. Giordano G; Campanini N, et al.