



CALIFORNIA
TUMOR TISSUE REGISTRY

GENITOURINARY & RENAL PATHOLOGY

Minutes – Subscription A

February 2010



SUGGESTED READING (General Topics from Recent Literature):

- Mortality from Lymphohematopoietic Malignancies and Brain Cancer Among Embalmers Exposed to Formaldehyde. Haupt Mann M, Stewart PA, et al. *J Natl Cancer Inst* 2009; 101:1696-1708.
- Retroperitoneal Fibrosis. A Clinicopathologic Study with Respect to Immunoglobulin G4. Zen Y, Onodera M, et al. *Am J Surg Pathol* 2009; 33:1833-1839.
- Impact of American Society of Clinical Oncology/College of American Pathologists Guideline Recommendations on HER2 Interpretation in Breast Cancer. *Hum Pathol* 2010; 41:103-106.
- Evidence of Serum Immunoglobulin Abnormalities Up to 9.8 Years Before Diagnosis of Chronic Lymphocytic Leukemia. A Prospective Study. Tsai H-T, Caporaso NE, et al. *Blood* 2009; 114:4928-2932.
- Prognostic Significance of c-Myc Expression in Soft Tissue Leiomyosarcoma. Tsiatis AC, Herceg ME, et al. *Mod Pathol* 2009; 22:1432-1438.

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FILE DIAGNOSES

CTTR Subscription A

February 2010

Case 1:

Angiomyolipoma, kidney
T-71000, M-88600

Case 2:

Renal oncocytoma
T-71000, M-82900

Case 3:

Cystic nephroma, kidney
T-71000, M-89601

Case 4:

Collecting duct carcinoma vs. medullary carcinoma (favor collecting duct carcinoma), kidney
T-71000, M-83123

Case 5:

Conventional clear cell renal carcinoma, kidney
T-71000, M-83123

Case 6:

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

Case 7:

Collecting duct carcinoma, kidney
T-71000, M-83123

Case 8:

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

Case 9:

Classic seminoma, testis
T-78000, M-90613

Case 10:

Leydig cell tumor, testicle
T-78000, M-86501

Alameda (Alameda County Medical Center) - Angiomyolipoma
Long Beach (Long Beach VA Medical Center) - Angiomyolipoma (4)
Oxnard (St. John's Regional Medical Center) - Angiomyolipoma
Santa Barbara - Angiomyolipoma
San Diego (Naval Medical Center) - Angiomyolipoma
Woodland Hills (Kaiser Foundation Hospital) - Angiomyolipoma
Florida (Naples Pathology Associates) - Angiomyolipoma
Florida (Tallahassee Pathology Associates) - Angiomyolipoma
Georgia, Dunwoody - Angiomyolipoma
Illinois, Burr Ridge - Angiomyolipoma
Illinois, Chicago - Angiomyolipoma (2)
Illinois (Heartland Regional Medical Center) - Angiomyolipoma
Illinois, Oak Brook - PECOMA
Illinois (St. Mary's Hospital) - Angiomyolipoma
Indiana, Indianapolis - Angiomyolipoma
Maryland (University of Maryland) - Angiomyolipoma
Minnesota (Fairview Ridges Hospital) - Angiomyolipoma (capsuloma)
Mississippi (University of Mississippi Medical Center) - Angiomyolipoma
Missouri (Missouri Delta Medical Center) - Angiomyolipoma
Nebraska (Creighton University Medical Center) - Angiomyolipoma
New York (Albany Medical Center) - Angiomyolipoma
New York (Long Island Jewish Medical Center) - Angiomyolipoma
New York (St. Lukes Roosevelt Hospital) - Angiomyolipoma (3)
New York (Stony Brook University Hospital) - Angiomyolipoma
New York (SUNY Downstate Medical Center) - Angiomyolipoma
New York (Westchester Medical Center) - Angiomyolipoma
North Carolina (North Carolina Baptist Hospital) - Angiomyolipoma
Ohio, Columbus - Angiomyolipoma
Ohio, Dublin - Angiomyolipoma
Ohio, Union Town - Angiomyolipoma
Ohio (University of Toledo Medical Center) - Angiomyolipoma
Pennsylvania (Conemaugh Memorial Hospital) - Angiomyolipoma
Pennsylvania (Drexel University College) - Angiomyolipoma
Pennsylvania (Lehigh Valley Hospital) - Angiomyolipoma
Pennsylvania (Magee Women's Hospital) - Angiomyolipoma
Pennsylvania (York Hospital) - Angiomyolipoma
Puerto Rico (University of Puerto Rico) - Angiomyolipoma
Texas (Carl Darnall Army Medical Center) - Angiomyolipoma
Texas, Crystal Beach - Angiomyolipoma
Texas, Houston - Angiomyolipoma
Texas, Lubbock - Angiomyolipoma
Texas (Scott & White Hospital) - Angiomyolipoma
Texas (UTHSC San Antonio Residents) - Angiomyolipoma
Washington (University of Washington) - Angiomyolipoma
Washington (VA Seattle) - Angiomyolipoma
Washington, DC (Howard University Hospital) - Angiomyolipoma
West Virginia (Greenbrier Valley Medical Center) - Angiomyolipoma
Australia (Royal Hobart Hospital) - Angiomyolipoma
Australia (Sullivan Nicolaides Pathology) - Angiomyolipoma, kidney
Canada (Pasqua Hospital) - Angiomyolipoma
Canada (University of Sherbrooke) - Angiomyolipoma
Ireland (Kerry General Hospital) - Angiomyolipoma
Japan (Asashi General Hospital) - Angiomyolipoma
Japan (Shizuoka Tokushu-kai Hospital) - Angiomyolipoma
Japan (University of Yamanashi) - Angiomyolipoma

Netherlands, Amstelveen - Angiomyolipoma
Singapore (Freelance/Locum Practice) - Angiomyolipoma
United Kingdom (John Radcliffe Hospital) - Angiomyolipoma

Case 1 - Diagnosis:

Angiomyolipoma, kidney
T-71000, M-88600

Case 1 - References:

Seyam RM and Bissada NK. Changing Trends in Presentation, Diagnosis and Management of Renal Angiomyolipoma. Comparison of Sporadic and Tuberous Sclerosis Complex-Associated Forms. *Urol* 2008; 72(5):1077-1082.
Kobayashi M, Nakano K, et al. Bilateral Massive Renal Angiomyolipoma Concurrent with Oncocytoma in Tuberous Sclerosis Complex Associated with Pulmonary Lymphangiomyomatosis. *Urol* 2008; 72(4):948.
Lane BR, Aydin H, et al. Clinical Correlates of Renal Angiomyolipoma Subtypes in 209 Patients. Classic, Fat Poor, Tuberous Sclerosis Associated and Epithelioid. *J Urol* 2008; 180(3):836-843.
Handa U, Nanda A and Mohan H. Fine-Needle Aspiration of Renal Angiomyolipoma. A Report of Four Cases. *Cytopathol* 2007; 18(4):250-254.
Kasuno K, Ueda S, et al. Pulmonary Angiomyolipoma Recurring 26 Years After Nephrectomy for Angiomyolipoma. Benign Clinical Course. *Clin Nephrol* 2004; 62(6):469-472.

Case No. 2, Accession No. 30991

February 2010

Alameda (Alameda County Medical Center) - Oncocytoma
Long Beach (Long Beach VA Medical Center) - Oncocytoma (4)
Oxnard (St. John's Regional Medical Center) - Oncocytoma
Santa Barbara - Oncocytoma
San Diego (Naval Medical Center) - Oncocytoma
Woodland Hills (Kaiser Foundation Hospital) - Oncocytoma
Florida (Naples Pathology Associates) - Oncocytoma
Florida (Tallahassee Pathology Associates) - Renal oncocytoma
Georgia, Dunwoody - Chromophobe renal cell carcinoma
Illinois, Burr Ridge - Chromophobe cell carcinoma
Illinois, Chicago - Oncocytoma (2)
Illinois (Heartland Regional Medical Center) - Renal oncocytoma
Illinois, Oak Brook - Oncocytoma
Illinois (St. Mary's Hospital) - Conventional Renal cell carcinoma, granular-eosinophilic variant
Indiana, Indianapolis - Oncocytoma
Maryland (University of Maryland) - Oncocytoma
Minnesota (Fairview Ridges Hospital) - Oncocytoma
Mississippi (University of Mississippi Medical Center) - Oncocytoma
Missouri (Missouri Delta Medical Center) - Oncocytoma
Nebraska (Creighton University Medical Center) - Oncocytoma
New York (Albany Medical Center) - Oncocytoma
New York (Long Island Jewish Medical Center) - Oncocytoma
New York (St. Lukes Roosevelt Hospital) - Oncocytoma
New York (Stony Brook University Hospital) - Oncocytoma (3)
New York (SUNY Downstate Medical Center) - Oncocytoma
New York (Westchester Medical Center) - Oncocytoma
North Carolina (North Carolina Baptist Hospital) - Oncocytoma
Ohio, Columbus - Oncocytoma
Ohio, Dublin - Oncocytoma
Ohio, Union Town - Oncocytoma
Ohio (University of Toledo Medical Center) - Oncocytoma
Pennsylvania (Conemaugh Memorial Hospital) - Oncocytoma
Pennsylvania (Drexel University College) - Oncocytoma
Pennsylvania (Lehigh Valley Hospital) - Oncocytoma

Pennsylvania (Magee Women's Hospital) - Oncocytoma
Pennsylvania (York Hospital) - Oncocytoma
Puerto Rico (University of Puerto Rico) - Oncocytoma
Texas (Carl Darnall Army Medical Center) - Oncocytoma
Texas, Crystal Beach - Oncocytoma
Texas, Houston - Renal cell carcinoma, well-differentiated
Texas, Lubbock - Renal cell carcinoma, oncocytic type
Texas (Scott & White Hospital) - Oncocytoma
Texas (UTHSC San Antonio Residents) - Oncocytoma
Washington (University of Washington) - Oncocytoma
Washington (VA Seattle) - Oncocytoma
Washington, DC (Howard University Hospital) - Oncocytoma
West Virginia (Greenbrier Valley Medical Center) - Oncocytoma
Australia (Royal Hobart Hospital) - Renal cell carcinoma, chromophobe type
Australia (Sullivan Nicolaides Pathology) - Oncocytoma
Canada (Pasqua Hospital) - Oncocytoma
Canada (University of Sherbrooke) - Oncocytoma
Ireland (Kerry General Hospital) - Oncocytoma
Japan (Asashi General Hospital) - Oncocytoma
Japan (Shizuoka Tokushu-kai Hospital) - Renal oncocytoma
Japan (University of Yamanashi) - Chromophobe renal cell carcinoma
Netherlands, Amstelveen - Renal oncocytoma
Singapore (Freelance/Locum Practice) - Oncocytoma
United Kingdom (John Radcliffe Hospital) - Oncocytoma

Case 2 - Diagnosis:

Renal oncocytoma
 T-71000, M-82900

Case 2 - References:

Hindermann W, Wunderlich H, et al. The Accuracy of 250 Fine Needle Biopsies of Renal Tumors. *J Urol* 2005; 174(1):44-46.
 Skinnider BF, Folpe AL, Amin MB, et al. Distribution of Cytokeratins and Vimentin in Adult Renal Neoplasms and Normal Renal Tissue. Potential Utility of a Cytokeratin Antibody Panel in the Differential Diagnosis of Renal Tumors. *Am J Surg Pathol* 2005; 29(6):747-754.
 Mai KT, Teo I, et al. Progesterone Receptor Reactivity in Renal Oncocytoma and Chromophobe Renal Cell Carcinoma. *Histopathol* 2008; 52(3):277-282.
 Alroy J, Ucci AA, et al. Expression of CD3 Antigens in Renal Tubule Epithelium and Renal Oncocytomas. *Pathol Res Pract* 2005; 201(12):803-808.

Case No. 3, Accession No. 31039

February 2010

Alameda (Alameda County Medical Center) - Cystic nephroma (multilocular cyst)
Long Beach (Long Beach VA Medical Center) - Adult polycystic kidney (4)
Oxnard (St. John's Regional Medical Center) - Benign renal cyst
Santa Barbara - Cystic nephroma
San Diego (Naval Medical Center) - Cystic nephroma
Woodland Hills (Kaiser Foundation Hospital) - Cystic nephroma
Florida (Naples Pathology Associates) - Acquired renal cystic disease
Florida (Tallahassee Pathology Associates) - Cystic nephroma
Georgia, Dunwoody - Cystic nephroma/MEST
Illinois, Burr Ridge - Multicystic nephroma
Illinois, Chicago - Cystic nephroma (2)
Illinois (Heartland Regional Medical Center) - Cystic nephroma
Illinois, Oak Brook - Cystic nephroma
Illinois (St. Mary's Hospital) - Mixed epithelial and stromal tumor/cystic nephroma

Indiana, Indianapolis - Cystic nephroma
Maryland (University of Maryland) - Multiloculated cystic nephroma
Minnesota (Fairview Ridges Hospital) - Multilocular cyst (cystic nephroma)
Mississippi (University of Mississippi Medical Center) - Mixed epithelial and stromal tumor of the kidney
Missouri (Missouri Delta Medical Center) - Cystic nephroma
Nebraska (Creighton University Medical Center) - Cystic nephroma
New York (Albany Medical Center) - Adult polycystic kidney disease
New York (Long Island Jewish Medical Center) - Cystic nephroma (1); Multilocular cystic renal cell carcinoma (1)
New York (St. Lukes Roosevelt Hospital) - Cystic nephroma (3)
New York (Stony Brook University Hospital) - Mixed epithelial and stromal tumor of kidney (cystic nephroma)
New York (SUNY Downstate Medical Center) - Multicystic nephroma
New York (Westchester Medical Center) - Multicystic nephroma
North Carolina (North Carolina Baptist Hospital) - Cystic nephroma
Ohio, Columbus - Cystic nephroma
Ohio, Dublin - Cystic nephroma
Ohio, Union Town - Multicystic nephroma
Ohio (University of Toledo Medical Center) - Cystic nephroma
Pennsylvania (Conemaugh Memorial Hospital) - Mixed epithelial stromal tumor
Pennsylvania (Drexel University College) - Multicystic nephroma
Pennsylvania (Lehigh Valley Hospital) - Cystic nephroma
Pennsylvania (Magee Women's Hospital) - Cystic nephroma
Pennsylvania (York Hospital) - Mixed epithelial stromal tumor
Puerto Rico (University of Puerto Rico) - Cystic nephroma
Texas (Carl Darnall Army Medical Center) - Cystic nephroma
Texas, Crystal Beach - Simple cysts of kidney
Texas, Houston - Polycystic kidney disease
Texas, Lubbock - Cystic nephroma
Texas (Scott & White Hospital) - Cystic nephroma
Texas (UTHSC San Antonio Residents) - Cystic nephroma
Washington (University of Washington) - Cystic nephroma
Washington (VA Seattle) - Focal cystic disease
Washington, DC (Howard University Hospital) - Cystic nephroma
West Virginia (Greenbrier Valley Medical Center) - Cystic nephroma
Australia (Royal Hobart Hospital) - Cystic nephroma
Australia (Sullivan Nicolaides Pathology) - Cystic nephroma
Canada (Pasqua Hospital) - Cystic nephroma
Canada (University of Sherbrooke) - Cystic nephroma
Ireland (Kerry General Hospital) - Multicystic well-differentiated renal cell carcinoma
Japan (Asahi General Hospital) - Cystic nephroma
Japan (Shizuoka Tokushu-kai Hospital) - Cystic nephroma
Japan (University of Yamanashi) - Multilocular cystic renal cell carcinoma
Netherlands, Amstelveen - Multilocular renal cell carcinoma
Singapore (Freelance/Locum Practice) - Cystic nephroma
United Kingdom (John Radcliffe Hospital) - Cystic nephroma

Case 3 - Diagnosis:

Cystic nephroma, kidney
 T-71000, M-89601

Case 3 - References:

Gupta R, Dhingra K, et al. Multicystic Nephroma. A Case Report. *Acta Cytol* 2007; 51(4):651-653.
 Lane BR, Campbell SC, et al. Adult Cystic Nephroma and Mixed Epithelial and Stromal Tumor of the Kidney. Clinical, Radiographic, and Pathologic Characteristics. *Urol* 2008; 71(6):1142-1148.
 Jevremovic D, Lager DJ and Lewin M. Cystic Nephroma (Multilocular Cyst) and Mixed Epithelial and Stromal Tumor of the Kidney. A Spectrum of the Same Entity? *Ann Diagn Pathol* 2006; 10(2):77-82.
 Bisceglia M, Galliani CA, et al. Renal Cystic Diseases. A Review. *Adv Anat Pathol* 2006; 13(1):26-56.

Turbiner J, Amin MB, et al. 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; 31(4):489-500.

Case No. 4, Accession No. 31076

February 2010

Alameda (Alameda County Medical Center) - Renal medullary carcinoma
Long Beach (Long Beach VA Medical Center) - Renal cell carcinoma, NOS (collecting duct) (4)
Oxnard (St. John's Regional Medical Center) - Renal cell carcinoma, collecting duct type
Santa Barbara - Collecting duct carcinoma
San Diego (Naval Medical Center) - Collecting duct carcinoma
Woodland Hills (Kaiser Foundation Hospital) - Collecting duct carcinoma
Florida (Naples Pathology Associates) - Collecting duct carcinoma
Florida (Tallahassee Pathology Associates) - Collecting duct carcinoma
Georgia, Dunwoody - Medullary carcinoma
Illinois, Burr Ridge - Collecting duct carcinoma
Illinois, Chicago - Collecting duct carcinoma (2)
Illinois (Heartland Regional Medical Center) - Collecting duct carcinoma
Illinois, Oak Brook - Medullary carcinoma
Illinois (St. Mary's Hospital) - Collecting duct carcinoma
Indiana, Indianapolis - Collecting duct carcinoma
Maryland (University of Maryland) - Collecting duct carcinoma
Minnesota (Fairview Ridges Hospital) - Collecting duct carcinoma
Mississippi (University of Mississippi Medical Center) - Medullary carcinoma of the kidney, tubular pattern
Missouri (Missouri Delta Medical Center) - Renal medullary cancer
Nebraska (Creighton University Medical Center) - Collecting duct carcinoma/medullary carcinoma
New York (Albany Medical Center) - Medullary carcinoma
New York (Long Island Jewish Medical Center) - Collecting duct carcinoma (1); Medullary carcinoma (1)
New York (St. Lukes Roosevelt Hospital) - Collecting duct carcinoma (3)
New York (Stony Brook University Hospital) - Medullary carcinoma of the kidney
New York (SUNY Downstate Medical Center) - Medullary carcinoma/collecting duct carcinoma
New York (Westchester Medical Center) - Collecting duct carcinoma
North Carolina (North Carolina Baptist Hospital) - Collecting duct carcinoma
Ohio, Columbus - Renal medullary carcinoma
Ohio, Dublin - Medullary carcinoma
Ohio, Union Town - Collecting duct carcinoma
Ohio (University of Toledo Medical Center) - Medullary carcinoma
Pennsylvania (Conemaugh Memorial Hospital) - Medullary carcinoma
Pennsylvania (Drexel University College) - Collecting duct carcinoma
Pennsylvania (Lehigh Valley Hospital) - Medullary carcinoma
Pennsylvania (Magee Women's Hospital) - Collecting duct carcinoma
Pennsylvania (York Hospital) - Collecting duct carcinoma
Puerto Rico (University of Puerto Rico) - Renal medullary carcinoma
Texas (Carl Darnall Army Medical Center) - Renal medullary carcinoma
Texas, Crystal Beach - Collecting duct carcinoma
Texas, Houston - Renal cell carcinoma, collecting duct type
Texas, Lubbock - Collecting duct carcinoma
Texas (Scott & White Hospital) - Medullary carcinoma
Texas (UTHSC San Antonio Residents) - Medullary carcinoma
Washington (University of Washington) - Medullary carcinoma
Washington (VA Seattle) - Renal nodular carcinoma
Washington, DC (Howard University Hospital) - Renal medullary carcinoma
West Virginia (Greenbrier Valley Medical Center) - Collecting duct renal cell carcinoma
Australia (Royal Hobart Hospital) - Collecting duct carcinoma
Australia (Sullivan Nicolaides Pathology) - Collecting duct carcinoma

Canada (Pasqua Hospital) - Collecting duct carcinoma
Canada (University of Sherbrooke) - Collecting duct Bellini adenocarcinoma
Ireland (Kerry General Hospital) - Collecting duct carcinoma
Japan (Asashi General Hospital) - Renal medullary carcinoma
Japan (Shizuoka Tokushu-kai Hospital) - Papillary renal cell carcinoma
Japan (University of Yamanashi) - Carcinoma of the collecting ducts of Bellini
Netherlands, Amstelveen - Collecting duct carcinoma
Singapore (Freelance/Locum Practice) - Collecting duct carcinoma, DDx: medullary carcinoma
United Kingdom (John Radcliffe Hospital) - Collecting duct carcinoma

Case 4 - Diagnosis:

Collecting duct carcinoma vs. medullary carcinoma (favor collecting duct carcinoma), kidney
 T-71000, M-83123

Case 4 - References:

Farah R, Ben-Izhak O, et al. Low Grade Renal Collecting Duct Carcinoma. A Case Report with Histochemical, Immunohistochemical, and Ultrastructural Study. *Ann Diagn Pathol* 2005; 9(1):46-48.
 Tokuda N, Naito S, et al. Collecting Duct (Bellini Duct) Renal Cell Carcinoma. A Nationwide Survey in Japan. *J Urol* 2006; 176(1):40-43.
 Sarode VR, Islam S, 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; 48(6):843-848.
 Watanabe IC, Billis A, et al. Renal Medullary Carcinoma. Report of Seven Cases from Brazil. *Mod Pathol* 2007; 20(9):914-920.
 Sugimura J, Yang XJ, et al. Gene Expression Profiling of Renal Medullary Carcinoma. Potential Clinical Relevance. *Cancer* 2004; 100(5):976-985.

Case No. 5, Accession No. 30952

February 2010

Alameda (Alameda County Medical Center) - Renal cell carcinoma, clear cell type
Long Beach (Long Beach VA Medical Center) - Renal cell, clear cell carcinoma (2)
Oxnard (St. John's Regional Medical Center) - Renal cell carcinoma, clear cell type
Santa Barbara - Renal cell carcinoma
San Diego (Naval Medical Center) - Clear cell renal cell carcinoma
Woodland Hills (Kaiser Foundation Hospital) - Clear cell renal cell carcinoma, hemangioma in benign peripheral kidney
Florida (Naples Pathology Associates) - Renal cell carcinoma, clear cell type
Florida (Tallahassee Pathology Associates) - Clear cell renal carcinoma
Georgia, Dunwoody - Renal cell carcinoma, conventional/clear cell type
Illinois, Burr Ridge - Clear cell carcinoma
Illinois, Chicago - Clear cell carcinoma (2)
Illinois (Heartland Regional Medical Center) - Clear cell carcinoma, Fuhrman, Grade 2
Illinois, Oak Brook - Renal cell carcinoma, clear cell type
Illinois (St. Mary's Hospital) - Clear cell renal cell carcinoma
Indiana, Indianapolis - Clear cell renal cell carcinoma
Maryland (University of Maryland) - Renal cell carcinoma, conventional (clear cell) type
Minnesota (Fairview Ridges Hospital) - Renal cell carcinoma, clear cell type
Mississippi (University of Mississippi Medical Center) - Renal cell carcinoma, conventional (clear cell) type
Missouri (Missouri Delta Medical Center) - Renal cell cancer, clear cell type
Nebraska (Creighton University Medical Center) - Renal cell carcinoma, clear cell type
New York (Albany Medical Center) - Renal cell carcinoma, clear cell
New York (Long Island Jewish Medical Center) - Clear cell carcinoma (1); Renal cell carcinoma, grade 3 (1)
New York (St. Lukes Roosevelt Hospital) - Renal cell carcinoma, clear cell type (3)
New York (Stony Brook University Hospital) - Clear cell renal cell carcinoma and capsular angiomyolipoma
New York (SUNY Downstate Medical Center) - Renal cell carcinoma, clear cell type
New York (Westchester Medical Center) - Clear cell carcinoma
North Carolina (North Carolina Baptist Hospital) - Conventional clear cell renal cell carcinoma
Ohio, Columbus - Renal cell carcinoma, clear cell variant, Fuhrman, grade 2

Ohio, Dublin - Clear cell renal cell carcinoma
Ohio, Union Town - Renal cell carcinoma, clear cell type
Ohio (University of Toledo Medical Center) - Conventional clear cell renal cell carcinoma
Pennsylvania (Conemaugh Memorial Hospital) - Renal clear cell carcinoma
Pennsylvania (Drexel University College) - Renal clear cell carcinoma
Pennsylvania (Lehigh Valley Hospital) - Clear cell carcinoma
Pennsylvania (Magee Women's Hospital) - Renal cell carcinoma, clear cell
Pennsylvania (York Hospital) - Clear cell renal cell carcinoma
Puerto Rico (University of Puerto Rico) - Clear cell renal cell carcinoma
Texas (Carl Darnall Army Medical Center) - Clear cell renal cell carcinoma
Texas, Crystal Beach - Clear cell renal carcinoma
Texas, Houston - Renal cell carcinoma, clear cell type
Texas, Lubbock - Renal cell carcinoma, clear cell type
Texas (Scott & White Hospital) - Clear cell renal cell carcinoma
Texas (UTHSC San Antonio Residents) - Clear cell renal cell carcinoma
Washington (University of Washington) - Clear cell renal cell carcinoma
Washington (VA Seattle) - Renal cell carcinoma, low to intermediate grade
Washington, DC (Howard University Hospital) - Clear cell renal cell carcinoma
West Virginia (Greenbrier Valley Medical Center) - Clear cell renal cell carcinoma
Australia (Royal Hobart Hospital) - Renal cell carcinoma, clear cell type
Australia (Sullivan Nicolaides Pathology) - Clear cell carcinoma, Fuhrman grade 3
Canada (Pasqua Hospital) - Clear cell carcinoma
Canada (University of Sherbrooke) - Clear cell carcinoma
Ireland (Kerry General Hospital) - Renal clear cell carcinoma
Japan (Asahi General Hospital) - Clear cell renal cell carcinoma
Japan (Shizuoka Tokushu-kai Hospital) - Renal cell carcinoma, clear cell type
Japan (University of Yamanashi) - Clear cell renal cell carcinoma
Netherlands, Amstelveen - Clear cell renal cell carcinoma
Singapore (Freelance/Locum Practice) - Clear cell renal cell carcinoma, Furhman Grade 2 with focal grade 3
United Kingdom (John Radcliffe Hospital) - Clear cell renal cell carcinoma

Case 5 - Diagnosis:

Conventional clear cell renal carcinoma, kidney
 T-71000, M-83123

Case 5 - References:

Tickoo SK and Gopalan A. Pathologic Features of Renal Cortical Tumors. *Urol Clin North Am* 2008; 35(4):551-561.
 Liu YH, Lin CY, et al. Up-Regulation of Vascular Endothelial Growth Factor-D Expression in Clear Cell Renal Cell Carcinoma By CD74. A Critical Role in Cancer Cell Tumorigenesis. *J Immunol* 2008; 181(9):6584-6594.
 Wang KL, Weinrach DM, et al. Renal Papillary Adenoma—A Putative Precursor of Papillary Renal Cell Carcinoma. *Hum Pathol* 2007; 38(2):239-246.
 Wang HY and Mills SE. KIT and RCC Are Useful in Distinguishing Chromophobe Renal Cell Carcinoma from the Granular Variant of Clear Cell Renal Cell Carcinoma. *Am J Surg Pathol* 2005; 29(5):640-646.
 Junker K, Hindermann W, et al. CD70. A New Tumor Specific Biomarker for Renal Cell Carcinoma. *J Urol* 2005; 173(6):2150-2153.

Case No. 6, Accession No. 31018

February 2010

Alameda (Alameda County Medical Center) - Renal medullary carcinoma
Long Beach (Long Beach VA Medical Center) - Medullary carcinoma (4)
Oxnard (St. John's Regional Medical Center) - Renal medullary carcinoma
Santa Barbara - Urothelial carcinoma
San Diego (Naval Medical Center) - Medullary renal cell carcinoma
Woodland Hills (Kaiser Foundation Hospital) - Medullary renal cell carcinoma
Florida (Naples Pathology Associates) - Renal medullary carcinoma

Florida (Tallahassee Pathology Associates) - Invasive urothelial carcinoma
Georgia, Dunwoody - Renal medullary carcinoma
Illinois, Burr Ridge - Medullary carcinoma
Illinois, Chicago - Renal medullary carcinoma (2)
Illinois (Heartland Regional Medical Center) - Medullary carcinoma
Illinois, Oak Brook - Medullary carcinoma
Illinois (St. Mary's Hospital) - Renal medullary carcinoma
Indiana, Indianapolis - Medullary carcinoma
Maryland (University of Maryland) - Medullary carcinoma
Minnesota (Fairview Ridges Hospital) - Renal medullary carcinoma
Mississippi (University of Mississippi Medical Center) - Medullary carcinoma of the kidney with rhabdoid features
Missouri (Missouri Delta Medical Center) - Rhabdoid tumor of kidney possibly associated with renal medullary cancer
Nebraska (Creighton University Medical Center) - Medullary carcinoma
New York (Albany Medical Center) - Invasive urothelial carcinoma
New York (Long Island Jewish Medical Center) - Medullary carcinoma
New York (St. Lukes Roosevelt Hospital) - Medullary carcinoma (3)
New York (Stony Brook University Hospital) - Urothelial carcinoma
New York (SUNY Downstate Medical Center) - Medullary carcinoma
New York (Westchester Medical Center) - Solid transitional cell carcinoma
North Carolina (North Carolina Baptist Hospital) - Medullary carcinoma
Ohio, Columbus - Invasive urothelial carcinoma, high grade
Ohio, Dublin - Urothelial carcinoma
Ohio, Union Town - Renal medullary carcinoma
Ohio (University of Toledo Medical Center) - Medullary carcinoma
Pennsylvania (Conemaugh Memorial Hospital) - Medullary carcinoma
Pennsylvania (Drexel University College) - Medullary carcinoma
Pennsylvania (Lehigh Valley Hospital) - Medullary carcinoma
Pennsylvania (Magee Women's Hospital) - Medullary carcinoma
Pennsylvania (York Hospital) - Renal medullary carcinoma
Puerto Rico (University of Puerto Rico) - Renal cell carcinoma, unclassified/renal medullary carcinoma
Texas (Carl Darnall Army Medical Center) - Renal medullary carcinoma vs. adenocarcinoma, NOS
Texas, Crystal Beach - Transitional cell carcinoma
Texas, Houston - Oncocytic cell type carcinoma
Texas, Lubbock - Medullary carcinoma
Texas (Scott & White Hospital) - Medullary carcinoma
Texas (UTHSC San Antonio Residents) - Urothelial carcinoma, high grade with mucinous differentiation
Washington (University of Washington) - Medullary carcinoma
Washington (VA Seattle) - Carcinoma with suggestion of urothelial type
Washington, DC (Howard University Hospital) - Urothelial carcinoma
West Virginia (Greenbrier Valley Medical Center) - Medullary renal cell carcinoma
Australia (Royal Hobart Hospital) - Medullary renal cell carcinoma
Australia (Sullivan Nicolaides Pathology) - High grade urothelial carcinoma
Canada (Pasqua Hospital) - Medullary renal cell carcinoma
Canada (University of Sherbrooke) - Medullary carcinoma
Ireland (Kerry General Hospital) - Transitional cell carcinoma
Japan (Asahi General Hospital) - Renal medullary carcinoma
Japan (Shizuoka Tokushu-kai Hospital) - Transitional cell carcinoma
Japan (University of Yamanashi) - Rhabdoid tumor
Netherlands, Amstelveen - Medullary carcinoma
Singapore (Freelance/Locum Practice) - Medullary carcinoma
United Kingdom (John Radcliffe Hospital) - Xp11 translocation carcinoma

Case 6 - Diagnosis:

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

Case 6 - References:

Wang J, Weiss LM, et al. Usefulness of Immunohistochemistry in Delineating Renal Spindle Cell Tumors. A Retrospective Study of 31 Cases. *Histopathol* 2004; 44(5):462-471.
Brown JM, Berkey BD, et al. Discovery of a Renal Medullary Carcinoma in an Adolescent Male with Sickle Cell Trait By Tc-99m Methylene Disphosphonate Bone Scintigraphy. *Clin Nucl Med* 2008; 33(12):896-900.
Assad L, Resetskova E, et al. Cytologic Features of Renal Medullary Carcinoma. *Cancer* 2005; 105(1):28-34.
Simpson L, He X, et al. Renal Medullary Carcinoma and ABL Gene Amplification. *J Urol* 2005; 173(6):1883-1888.
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Case No. 7, Accession No. 31012

February 2010

Alameda (Alameda County Medical Center) - Collecting duct carcinoma
Long Beach (Long Beach VA Medical Center) - Renal cell carcinoma vs. transitional carcinoma (4)
Oxnard (St. John's Regional Medical Center) - Renal cell carcinoma, high grade
Santa Barbara - Urothelial carcinoma
San Diego (Naval Medical Center) - Urothelial carcinoma
Woodland Hills (Kaiser Foundation Hospital) - Renal cell carcinoma, unclassified, with mucin
Florida (Naples Pathology Associates) - Renal cell carcinoma, unclassified
Florida (Tallahassee Pathology Associates) - Invasive high grade urothelial carcinoma
Georgia, Dunwoody - Collecting duct carcinoma
Illinois, Burr Ridge - Renal cell carcinoma, tubular type
Illinois, Chicago - Collecting duct carcinoma (1); Clear cell carcinoma (1)
Illinois (Heartland Regional Medical Center) - Renal cell carcinoma, poorly differentiated, favor collecting duct carcinoma
Illinois, Oak Brook - Metastatic carcinoma, signet ring cell
Illinois (St. Mary's Hospital) - Renal cell carcinoma, unclassified
Indiana, Indianapolis - Urothelial carcinoma of the renal pelvis
Maryland (University of Maryland) - Urothelial carcinoma
Minnesota (Fairview Ridges Hospital) - Urothelial carcinoma, high grade
Mississippi (University of Mississippi Medical Center) - Collecting duct carcinoma
Missouri (Missouri Delta Medical Center) - Renal cell cancer with sarcomatoid features
Nebraska (Creighton University Medical Center) - Transitional cell carcinoma
New York (Albany Medical Center) - Collecting duct carcinoma
New York (Long Island Jewish Medical Center) - Sarcomatoid renal cell carcinoma (1); Collecting duct carcinoma (1)
New York (St. Lukes Roosevelt Hospital) - Renal carcinoma, NOS (3)
New York (Stony Brook University Hospital) - Collecting duct carcinoma with signet ring cell features
New York (SUNY Downstate Medical Center) - Collecting duct carcinoma
New York (Westchester Medical Center) - Collecting duct carcinoma
North Carolina (North Carolina Baptist Hospital) - Transitional cell carcinoma
Ohio, Columbus - Collecting duct carcinoma
Ohio, Dublin - Collecting duct carcinoma
Ohio, Union Town - High grade urothelial carcinoma
Ohio (University of Toledo Medical Center) - Collecting duct carcinoma
Pennsylvania (Conemaugh Memorial Hospital) - Urothelial carcinoma
Pennsylvania (Drexel University College) - Invasive transitional cell tumor
Pennsylvania (Lehigh Valley Hospital) - Collecting duct renal cell carcinoma
Pennsylvania (Magee Women's Hospital) - Urothelial carcinoma
Pennsylvania (York Hospital) - Renal cell carcinoma, unclassified
Puerto Rico (University of Puerto Rico) - Urothelial carcinoma
Texas (Carl Darnall Army Medical Center) - Collecting duct carcinoma
Texas, Crystal Beach - Anaplastic transitional cell carcinoma consistent with mucinous features
Texas, Houston - Renal cell carcinoma
Texas, Lubbock - Chromophobe carcinoma
Texas (Scott & White Hospital) - Collecting duct carcinoma
Texas (UTHSC San Antonio Residents) - Collecting duct carcinoma
Washington (University of Washington) - Collecting duct carcinoma

Washington (VA Seattle) - Carcinoma, high grade, possible collecting duct type
Washington, DC (Howard University Hospital) - Collecting duct carcinoma
West Virginia (Greenbrier Valley Medical Center) - Chromophobe renal cell carcinoma
Australia (Royal Hobart Hospital) - High grade transitional cell carcinoma
Australia (Sullivan Nicolaides Pathology) - High grade urothelial carcinoma
Canada (Pasqua Hospital) - Urothelial carcinoma
Canada (University of Sherbrooke) - Urothelial cell carcinoma
Ireland (Kerry General Hospital) - Renal clear cell carcinoma
Japan (Asashi General Hospital) - Carcinoma of the collecting duct of Bellini
Japan (Shizuoka Tokushu-kai Hospital) - Renal cell carcinoma, clear cell type
Japan (University of Yamanashi) - Carcinoma of the collecting ducts of Bellini
Netherlands, Amstelveen - Collecting duct carcinoma
Singapore (Freelance/Locum Practice) - Renal cell carcinoma, Furhman grade 3 and 4, clear cell collecting duct
United Kingdom (John Radcliffe Hospital) - Transitional cell carcinoma

Case 7 - Diagnosis:

Collecting duct carcinoma, kidney
 T-71000, M-83123

Case 7 - References:

Vazquez-Lavista LG, Uribe-Uribe N, et al. Collecting Duct Renal Cell Carcinoma. Two Different Clinical Stages, Two Different Clinical Outcomes. *Urol Int* 2008; 81(1):116-118.
 Tokuda N, Naito S, et al. Collecting Duct (Bellini Duct) Renal Cell Carcinoma. A Nationwide Survey in Japan. *J Urol* 2006; 176(1):40-43.
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 Gurocak S, Sozen S, et al. Cortically Located Collecting Duct Carcinoma. *Urol* 2005; 65(6):1226.
 Orsola A, Trias I, et al. Renal Collecting (Bellini) Duct Carcinoma Displays Similar Characteristics to Upper Tract Urothelial Cell Carcinoma. *Urol* 2005; 65(1):49-54.

Case No. 8, Accession No. 30929

February 2010

Alameda (Alameda County Medical Center) - Nephroblastoma
Long Beach (Long Beach VA Medical Center) - Wilms tumor (4)
Oxnard (St. John's Regional Medical Center) - Wilms tumor
Santa Barbara - Nephroblastoma
San Diego (Naval Medical Center) - Wilms tumor (nephroblastoma)
Woodland Hills (Kaiser Foundation Hospital) - Nephroblastoma
Florida (Naples Pathology Associates) - Nephroblastoma, blastemal type
Florida (Tallahassee Pathology Associates) - Wilms tumor
Georgia, Dunwoody - Wilms tumor
Illinois, Burr Ridge - Nephroblastoma
Illinois, Chicago - Nephroblastoma (2)
Illinois (Heartland Regional Medical Center) - Nephroblastoma
Illinois, Oak Brook - Nephroblastoma
Illinois (St. Mary's Hospital) - Wilms tumor
Indiana, Indianapolis - Wilms tumor
Maryland (University of Maryland) - Nephroblastoma
Minnesota (Fairview Ridges Hospital) - Nephroblastoma
Mississippi (University of Mississippi Medical Center) - Wilms tumor
Missouri (Missouri Delta Medical Center) - Wilms tumor
Nebraska (Creighton University Medical Center) - Wilms tumor (nephroblastoma)
New York (Albany Medical Center) - Blastema predominant Wilms tumor
New York (Long Island Jewish Medical Center) - Wilms tumor
New York (St. Lukes Roosevelt Hospital) - Wilms tumor (3)
New York (Stony Brook University Hospital) - Wilms tumor

New York (SUNY Downstate Medical Center) - Wilms tumor
New York (Westchester Medical Center) - Wilms tumor
North Carolina (North Carolina Baptist Hospital) - Wilms tumor
Ohio, Columbus - Wilms tumor
Ohio, Dublin - Wilms tumor
Ohio, Union Town - Wilms tumor, blastema predominant
Ohio (University of Toledo Medical Center) - Nephroblastoma (Wilms tumor)
Pennsylvania (Conemaugh Memorial Hospital) - Wilms tumor
Pennsylvania (Drexel University College) - Wilms tumor
Pennsylvania (Lehigh Valley Hospital) - Nephroblastoma
Pennsylvania (Magee Women's Hospital) - Wilms tumor, no anaplasia
Pennsylvania (York Hospital) - Wilms tumor
Puerto Rico (University of Puerto Rico) - Wilms tumor, favorable histology
Texas (Carl Darnall Army Medical Center) - Wilms tumor
Texas, Crystal Beach - Nephroblastoma, blastema cell predominant
Texas, Houston - Wilms tumor
Texas, Lubbock - Wilms tumor
Texas (Scott & White Hospital) - Wilms tumor
Texas (UTHSC San Antonio Residents) - Wilms tumor
Washington (University of Washington) - Wilms tumor
Washington (VA Seattle) - Wilms tumor
Washington, DC (Howard University Hospital) - Nephroblastoma (Wilms tumor)
West Virginia (Greenbrier Valley Medical Center) - Nephroblastoma
Australia (Royal Hobart Hospital) - Nephroblastoma (blastemal predominant)
Australia (Sullivan Nicolaides Pathology) - Nephroblastoma
Canada (Pasqua Hospital) - Nephroblastoma
Canada (University of Sherbrooke) - Clear cell sarcoma
Ireland (Kerry General Hospital) - Wilms tumor
Japan (Asashi General Hospital) - Nephroblastoma
Japan (Shizuoka Tokushu-kai Hospital) - Nephroblastoma
Japan (University of Yamanashi) - Nephroblastoma
Netherlands, Amstelveen - Wilms tumor
Singapore (Freelance/Locum Practice) - Wilms tumor
United Kingdom (John Radcliffe Hospital) - Wilms tumor

Case 8 - Diagnosis:

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

Case 8 - References:

Khoury JD. Nephroblastic Neoplasms. *Clin Lab Med* 2005; 25(2):341-361.
 Ghanem MA, van Steenbrugge GJ, et al. Prognostic Markers in Nephroblastoma (Wilms Tumor). *Urol* 2005; 65(6):1047-1054.
 Argani P. Metanephric Neoplasms. The Hyperdifferentiated, Benign End of the Wilms Tumor Spectrum? *Clin Lab Med* 2005; 25(2):379-392.
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 D'Angio GJ. The National Wilms Tumor Study. A 40 Year Perspective. *Lifetime Data Anal* 2007; 13(4):463-470.

Case No. 9, Accession No. 31045

February 2010

Alameda (Alameda County Medical Center) - Seminoma
Long Beach (Long Beach VA Medical Center) - Classic seminoma (4)
Oxnard (St. John's Regional Medical Center) - Seminoma
Santa Barbara - Seminoma

San Diego (Naval Medical Center) - Seminoma
Woodland Hills (Kaiser Foundation Hospital) - Seminoma
Florida (Naples Pathology Associates) - Seminoma
Florida (Tallahassee Pathology Associates) - Seminoma
Georgia, Dunwoody - Seminoma
Illinois, Burr Ridge - Classic seminoma
Illinois, Chicago - Classic seminoma (2)
Illinois (Heartland Regional Medical Center) - Seminoma, classic
Illinois, Oak Brook - Seminoma
Illinois (St. Mary's Hospital) - Seminoma, classic
Indiana, Indianapolis - Seminoma
Maryland (University of Maryland) - Seminoma
Minnesota (Fairview Ridges Hospital) - Classic seminoma
Mississippi (University of Mississippi Medical Center) - Seminoma
Missouri (Missouri Delta Medical Center) - Seminoma
Nebraska (Creighton University Medical Center) - Seminoma
New York (Albany Medical Center) - Seminoma
New York (Long Island Jewish Medical Center) - Seminoma
New York (St. Lukes Roosevelt Hospital) - Seminoma (3)
New York (Stony Brook University Hospital) - Seminoma
New York (SUNY Downstate Medical Center) - Seminoma
New York (Westchester Medical Center) - Seminoma
North Carolina (North Carolina Baptist Hospital) - Seminoma
Ohio, Columbus - Seminoma
Ohio, Dublin - Seminoma
Ohio, Union Town - Seminoma
Ohio (University of Toledo Medical Center) - Seminoma
Pennsylvania (Conemaugh Memorial Hospital) - Seminoma
Pennsylvania (Drexel University College) - Seminoma
Pennsylvania (Lehigh Valley Hospital) - Seminoma
Pennsylvania (Magee Women's Hospital) - Seminoma
Pennsylvania (York Hospital) - Seminoma
Puerto Rico (University of Puerto Rico) - Seminoma, classical type
Texas (Carl Darnall Army Medical Center) - Anaplastic seminoma
Texas, Crystal Beach - Germ cell tumor (mostly seminoma poorly differentiated)
Texas, Houston - Seminoma
Texas, Lubbock - Seminoma
Texas (Scott & White Hospital) - Seminoma
Texas (UTHSC San Antonio Residents) - Seminoma, classic type
Washington (University of Washington) - Seminoma
Washington (VA Seattle) - Seminoma
Washington, DC (Howard University Hospital) - Seminoma
West Virginia (Greenbrier Valley Medical Center) - Seminoma
Australia (Royal Hobart Hospital) - Seminoma testis with adjacent ITGCN
Australia (Sullivan Nicolaides Pathology) - Seminoma (classic type) & ITGCN
Canada (Pasqua Hospital) - Seminoma
Canada (University of Sherbrooke) - Seminoma
Ireland (Kerry General Hospital) - Classic seminoma
Japan (Asahi General Hospital) - Seminoma
Japan (Shizuoka Tokushu-kai Hospital) - Seminoma
Japan (University of Yamanashi) - Seminoma
Netherlands, Amstelveen - Seminoma, testis
Singapore (Freelance/Locum Practice) - Seminoma
United Kingdom (John Radcliffe Hospital) - Classical seminoma

Case 9 - Diagnosis:

Classic seminoma, testis

(Directors note): Most slides also showed ITGCN (drc)

T-78000, M-90613

Case 9 - References:

Flynn MJ, Childerhouse A, et al. Unusual Cystic Change in Classic Seminoma of the Testis. *Am J Surg Pathol* 2006; 30(1):137-139.

Berney DM, Lee A, et al. The Association Between Intratubular Seminoma and Invasive Germ Cell Tumors. *Hum Pathol* 2006; 37(4):458-461.

Foell K, Martens M, et al. A Rare Case of Classic Testicular Seminoma in an 86-Year-Old Shows Similar Proliferation Rate as in Younger Men. *Urol* 2007; 70(5):1007.

Lau SK, Weiss LM and Chu PG. Association of Intratubular Seminoma and Intratubular Embryonal Carcinoma with Invasive Testicular Germ Cell Tumor. *Surg Pathol* 2007; 31(7):1045-1049.

Horan G, Rafique A, et al. CT of the Chest Can Hinder the Management of Seminoma of the Testis, It Detects Irrelevant Abnormalities. *Br J Cancer* 2007; 96(6):882-885.

Case No. 10, Accession No. 31052

February 2010

Alameda (Alameda County Medical Center) - Leydig cell tumor

Long Beach (Long Beach VA Medical Center) - Leydig cell tumor (4)

Oxnard (St. John's Regional Medical Center) - Leydig cell tumor

Santa Barbara - Leydig cell tumor

San Diego (Naval Medical Center) - Leydig cell tumor

Woodland Hills (Kaiser Foundation Hospital) - Leydig cell tumor

Florida (Naples Pathology Associates) - Leydig cell tumor

Florida (Tallahassee Pathology Associates) - Tumor of the adrenogenital syndrome vs. Leydig cell tumor

Georgia, Dunwoody - Leydig cell tumor

Illinois, Burr Ridge - Leydig cell tumor

Illinois, Chicago - Leydig cell tumor (2)

Illinois (Heartland Regional Medical Center) - Leydig cell tumor

Illinois, Oak Brook - Leydig cell tumor

Illinois (St. Mary's Hospital) - Leydig cell tumor

Indiana, Indianapolis - Leydig cell tumor

Maryland (University of Maryland) - Leydig cell tumor

Minnesota (Fairview Ridges Hospital) - Leydig cell tumor

Mississippi (University of Mississippi Medical Center) - Leydig cell tumor

Missouri (Missouri Delta Medical Center) - Leydig cell tumor

Nebraska (Creighton University Medical Center) - Leydig cell tumor

New York (Albany Medical Center) - Leydig cell tumor

New York (Long Island Jewish Medical Center) - Leydig cell tumor

New York (St. Lukes Roosevelt Hospital) - Leydig cell tumor (3)

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

New York (SUNY Downstate Medical Center) - Leydig cell tumor

New York (Westchester Medical Center) - Leydig cell tumor

North Carolina (North Carolina Baptist Hospital) - Leydig cell tumor

Ohio, Columbus - Leydig cell tumor

Ohio, Dublin - Leydig cell tumor

Ohio, Union Town - Leydig cell tumor

Ohio (University of Toledo Medical Center) - Leydig cell tumor

Pennsylvania (Conemaugh Memorial Hospital) - Leydig cell tumor

Pennsylvania (Drexel University College) - Leydig cell tumor

Pennsylvania (Lehigh Valley Hospital) - Leydig cell tumor

Pennsylvania (Magee Women's Hospital) - Leydig cell tumor

Pennsylvania (York Hospital) - Leydig cell tumor

Puerto Rico (University of Puerto Rico) - Leydig cell tumor

Texas (Carl Darnall Army Medical Center) - Leydig cell tumor
Texas, Crystal Beach - Leydig cell tumor
Texas, Houston - Leydig cell tumor
Texas, Lubbock - Leydig cell tumor
Texas (Scott & White Hospital) - Leydig cell tumor
Texas (UTHSC San Antonio Residents) - Leydig cell tumor
Washington (University of Washington) - Leydig cell tumor
Washington (VA Seattle) - Leydig cell tumor
Washington, DC (Howard University Hospital) - Leydig cell tumor
West Virginia (Greenbrier Valley Medical Center) - Leydig cell tumor
Australia (Royal Hobart Hospital) - Leydig cell tumor
Australia (Sullivan Nicolaides Pathology) - Leydig cell tumor
Canada (Pasqua Hospital) - Leydig cell tumor
Canada (University of Sherbrooke) - Leydig cell tumor
Ireland (Kerry General Hospital) - Leydig cell tumor
Japan (Asahi General Hospital) - Leydig cell tumor
Japan (Shizuoka Tokushu-kai Hospital) - Leydig cell tumor
Japan (University of Yamanashi) - Leydig cell tumor
Netherlands, Amstelveen - Leydig cell tumor
Singapore (Freelance/Locum Practice) - Leydig cell tumor
United Kingdom (John Radcliffe Hospital) - Leydig cell tumor

Case 10 - Diagnosis:

Leydig cell tumor, testicle
 T-78000, M-86501

Case 10 - References:

Colecchia M, Nistal M, et al. Leydig Cell Tumor and Hyperplasia. A Review. *Anal Quant Cytol Histol* 2007; 29(3):139-147.
 Loyd E and Boorjian S. A Painless Testicular Mass In A 50-Year-Old Man. Leydig Cell Tumor of the Testis, Microcystic Variant. *Arch Pathol Lab Med* 2006; 130(3):39-40.
 Al-Agha OM and Axiotis CA. An In-Depth Look At Leydig Cell Tumor of the Testis. *Arch Pathol Lab Med* 2007; 131(2):311-317.
 Emerson RE and Ulbright TM. Morphological Approach to Tumors of the Testis and Paratestis. *J Clin Pathol* 2007; 60(8):866-880.
 Sato K, Ueda Y, et al. Large Cell Calcifying Sertoli Cell Tumor of the Testis. Comparative Immunohistochemical Study with Leydig Cell Tumor.. *Patho Int* 2005; 55(6):366-371.