



CALIFORNIA  
TUMOR TISSUE REGISTRY

*GENERAL PATHOLOGY*

Minutes – Subscription A

March 2009



**SUGGESTED READING (General Topics from Recent Literature):**

- Clinical Significance of Signet-Ring Cells in Colorectal Mucinous Adenocarcinoma. Sung CO, Seo JW, et al. *Mod Pathol* 2008; 21:1533-1541.
- Chromophobe Renal Cell Carcinoma. Histomorphologic Characteristics and Evaluation of Conventional Pathologic Prognostic Parameters in 145 Cases. Amin MB, Paner GP, et al. *Am J Surg Pathol* 2008; 32:1822-1834.
- Hyalinizing Trabecular Tumors of the Thyroid Gland Are Almost All Benign. Carney JA Hirokawa M, et al. *Am J Surg Path* 2008; 32:1877-1889.
- Comparison of Histological Parameters for the Diagnosis of Eosinophilic Esophagitis Versus Gastro-Oesophageal Reflux Disease on Esophageal Biopsy Material. *Histopathol* 2008; 53(6):676-684.

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## **FILE DIAGNOSES**

**CTTR Subscription A**

**March 2009**

**Case 1:**

Cutaneous ciliated cyst, gluteal region  
T-Y9001, M-33400

**Case 2:**

Large cell neuroendocrine carcinoma, colon  
T-67000, D2040

**Case 3:**

Endometrioid adenocarcinoma, ovary and oviduct  
T-71000/T-87000, M-87000/M-81403

**Case 4:**

Gastrointestinal stromal tumor, stomach  
T-63950, M-96103

**Case 5:**

Monophasic synovial sarcoma, popliteal region  
T-14710, M-88003

**Case 6:**

Chordoma, recurrent vs. metastatic, groin  
T-Y7000, M-92200

**Case 7:**

Oncocytoma, kidney  
T-71000, M-82900

**Case 8:**

Papillary renal cell carcinoma, kidney  
T-71000, M-82900

**Case 9:**

Clear cell (conventional) renal cell carcinoma, kidney  
T-71000, M-83123

**Case 10:**

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

**Case No. 1, Accession No. 30769**

**March 2009**

Alameda (Alameda County Medical Center) - Cutaneous ciliated cyst  
Fontana (Kaiser Foundation) - Mullerian cyst  
Glendale - Tailgut cyst  
Long Beach (Long Beach Veterans Administration) - Benign ciliated cyst (endosalpingiosis) (5)  
Oakland - Cystadenoma  
Oxnard (St. John's Regional Medical Center) - Ciliated cyst  
Pleasant Hill - Endosalpingiosis  
San Diego (Naval Medical Center) - Cutaneous ciliated cyst  
San Diego (Scripps) - Poorly differentiated neuroendocrine carcinoma  
Santa Barbara - Ciliated cyst  
Woodland Hills (Kaiser Permanente) - Cutaneous ciliated cyst  
Colorado (McKee Medical Center) - Hidradenoma papilliform  
Florida (Naples Pathology Associates) - Apocrine hidrocystoma  
Georgia, Decatur - Cutaneous ciliated cyst  
Hayward (St. Rose Hospital) - Cutaneous ciliated cyst  
Illinois, Burr Ridge - Ciliated cyst  
Illinois, Chicago - Ectopic respiratory epithelium (2)  
Illinois (Adventist Glen Oaks Hospital) - Ciliated cutaneous cyst  
Illinois (Heartland Regional Medical Center) - Cutaneous ciliated cyst  
Illinois (Loyola University Medical Center) - Bronchiogenic cyst/benign cystic teratoma, gluteal region  
Louisiana (LSU-HSC) - Cutaneous ciliated cyst (cystadenoma)  
Massachusetts (Tufts-New England Medical Center) - Cutaneous ciliated cyst  
Massachusetts (University of Massachusetts) - Cutaneous mullerian/ciliated cyst  
Michigan (Oakwood Hospital) - Cutaneous ciliated cyst  
Minnesota (Fairview Ridges Hospital) - Cutaneous ciliated cyst  
Missouri (Missouri Delta Medical Center) - Cutaneous ciliated cyst  
Nebraska (Creighton University Medical Center) - Subcutaneous ciliated cystadenoma  
New Mexico, Albuquerque - Benign cyst, possibly eccrine  
New York (Albany Medical Center) - Cutaneous ciliated cyst of lower limbs  
New York (Long Island Jewish Medical Center) - Cutaneous ciliated cyst  
New York (North Shore University Hospital) - Endometrial cyst  
New York (St. Lukes Roosevelt Hospital) - Cutaneous ciliated cyst (2)  
New York (Stony Brook Medical Center) - Endosalpingiosis  
New York (SUNY Downstate Medical Center) - Cutaneous ciliated cyst  
New York (Westchester County Medical Center) - Subcutaneous ciliated cyst  
North Carolina (North Carolina Baptist Hospital) - Endosalpingiosis  
Ohio (The University of Toledo) - Cutaneous ciliated cyst  
Pennsylvania (Conemaugh Memorial Medical Center) - Cutaneous ciliated cyst  
Pennsylvania (Lehigh Valley Hospital) - Cutaneous ciliated cyst  
Pennsylvania (Magee Women's Hospital) - Cutaneous ciliated cyst  
Puerto Rico (University of Puerto Rico) - Cutaneous ciliated cyst  
Texas (Crystal Beach) - Hidradenoma (sweat gland adenoma)  
Texas, Houston - Cutaneous ciliated cyst  
Texas, Lubbock - Serous cystadenoma of low malignant potential  
Texas (Scott & White Memorial Hospital) - Cutaneous ciliated cyst  
Washington, Seattle (VAMC) - Simple cutaneous cyst with ciliated lining cells  
West Virginia (Greenbrier Valley Medical Center) - Cyst, muscular  
Wisconsin, Green Bay - Cutaneous ciliated cyst (cystadenoma)  
Wisconsin, Madison - Hidrocytoma  
Australia (Royal Hobart Hospital) - Cutaneous ciliated cyst  
Canada (Pasqua Hospital) - Ciliated cyst  
Canada (University of Sherbrooke) - Cystic endosalpingiosis  
Ireland (Beaumont Hospital) - Cutaneous ciliated cyst  
Ireland (Kerry General Hospital) - Endosalpingiosis  
Japan (Asahi General Hospital) - Apocrine hidrocystoma  
Japan (Kyoto University Hospital) - Cutaneous ciliated cyst

Japan (Shizuoka Tokushukei Hospital) - Cutaneous ciliated cyst  
United Kingdom (John Radcliffe Hospital) - Cutaneous ciliated cyst

**Case 1 - Diagnosis:**

Cutaneous ciliated cyst, gluteal region  
T-Y9001, M-33400

**Case 1 - References:**

Fontaine DG, Lau H, Murray SK, Fraser RB and Wright Jr. JR. Cutaneous Ciliated Cyst of the Abdominal Wall. A Case Report with a Review of the Literature and Discussion of Pathogenesis. *Am J Dermatopathol* 2002; 24(1):63-66.  
Lee MT, Heller DS, Lambert WC, Bethel C, et al. Cutaneous Ciliated Cyst with Interspersed Apocrine Features Presenting as a Pilonidal Cyst in a Child. *Pediatr Dev Pathol* 2001; 4(3):310-312.  
Dini M, Lo Russo G, Baroni G, and Colafranceschi M. Cutaneous Ciliated Cyst. A Case Report with Immunohistochemical Evidence for Dynein in Ciliated Cells. *Am J Dermatopathol* 2000; 22(6):519-523.  
Chong SJ, Kim SY, et al. Cutaneous Ciliated Cyst in a 16-Year-Old Girl. *J Am Acad Dermatol* 2007; 56(1):159-160.  
Lee JS, Kim YC and Lee ES. Cutaneous Ciliated Cyst of the Inguinal Areas in a Man. *J Dermatol* 2006; 33(2):146-149.

**Case No. 2, Accession No. 30867**

**March 2009**

Alameda (Alameda County Medical Center) - Large cell neuroendocrine carcinoma  
Fontana (Kaiser Foundation) - Poorly differentiated neuroendocrine carcinoma  
Glendale - Neuroendocrine carcinoma  
Long Beach (Long Beach Veterans Administration) - Poorly differentiated neuroendocrine carcinoma (5)  
Oakland - Carcinoid vs. poorly differentiated neuroendocrine tumor  
Oxnard (St. John's Regional Medical Center) - Neuroendocrine carcinoma (4)  
Pleasant Hill - Small cell carcinoma  
San Diego (Naval Medical Center) - Neuroendocrine carcinoma  
San Diego (Scripps) - Poorly differentiated neuroendocrine carcinoma  
Santa Barbara - Neuroendocrine carcinoma  
Woodland Hills (Kaiser Permanente) - Poorly differentiated carcinoma with neuroendocrine features  
Colorado (McKee Medical Center) - Poorly differentiated neuroendocrine carcinoma  
Florida (Naples Pathology Associates) - Colonic neuroendocrine carcinoma  
Georgia, Decatur - Poorly differentiated neuroendocrine (small cell) carcinoma  
Hayward (St. Rose Hospital) - Aggressive neuroendocrine tumor, colon  
Illinois, Burr Ridge - Neuroendocrine carcinoma  
Illinois, Chicago - High grade carcinoid tumor (2)  
Illinois (Adventist Glen Oaks Hospital) - Poorly differentiated neuroendocrine carcinoma  
Illinois (Heartland Regional Medical Center) - Poorly differentiated neuroendocrine carcinoma  
Illinois (Loyola University Medical Center) - Carcinoid tumor, colon  
Louisiana (LSU-HSC) - Neuroendocrine tumor, grade IV  
Massachusetts (Tufts-New England Medical Center) - Large cell neuroendocrine tumor  
Massachusetts (University of Massachusetts) - Poorly differentiated neuroendocrine carcinoma  
Michigan (Oakwood Hospital) - Large cell neuroendocrine carcinoma  
Minnesota (Fairview Ridges Hospital) - Large cell neuroendocrine carcinoma  
Missouri (Missouri Delta Medical Center) - Neuroendocrine cancer  
Nebraska (Creighton University Medical Center) - High grade neuroendocrine carcinoma  
New Mexico, Albuquerque - Poorly differentiated neuroendocrine carcinoma  
New York (Albany Medical Center) - High grade neuroendocrine carcinoma  
New York (Long Island Jewish Medical Center) - Neuroendocrine carcinoma  
New York (North Shore University Hospital) - Well-differentiated neuroendocrine carcinoma  
New York (St. Lukes Roosevelt Hospital) - Neuroendocrine carcinoma (1); Large cell carcinoma with neuroendocrine features (1)  
New York (SUNY Downstate Medical Center) - Neuroendocrine carcinoma  
New York (Westchester County Medical Center) - Large cell undifferentiated neuroendocrine tumor  
North Carolina (North Carolina Baptist Hospital) - Enterochromaffin cell derived colonic neuroendocrine tumor

Ohio (The University of Toledo) - Large cell neuroendocrine carcinoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Neuroendocrine carcinoma, high grade  
Pennsylvania (Lehigh Valley Hospital) - Poorly differentiated endocrine cell carcinoma  
Pennsylvania (Magee Women's Hospital) - Neuroendocrine carcinoma  
Puerto Rico (University of Puerto Rico) - Large cell neuroendocrine carcinoma  
Texas (Crystal Beach) - Neuroendocrine carcinoma  
Texas, Houston - Neuroendocrine carcinoma, high grade  
Texas, Lubbock - Carcinoma with neuroendocrine differentiation  
Texas (Scott & White Memorial Hospital) - High grade neuroendocrine carcinoma  
Washington, Seattle (VAMC) - Carcinoma, high grade growth pattern endocrine epithelial differentiation  
West Virginia (Greenbrier Valley Medical Center) - Carcinoma, neuroendocrine  
Wisconsin, Green Bay - High grade neuroendocrine carcinoma  
Wisconsin, Madison - Neuroendocrine carcinoma  
Australia (Royal Hobart Hospital) - High grade neuroendocrine carcinoma  
Canada (Pasqua Hospital) - Carcinoma with neuroendocrine features  
Canada (University of Sherbrooke) - Neuroendocrine carcinoma (high grade)  
Ireland (Beaumont Hospital) - High grade neuroendocrine tumor  
Ireland (Kerry General Hospital) - Large cell neuroendocrine carcinoma  
Japan (Asahi General Hospital) - Large cell neuroendocrine carcinoma  
Japan (Kyoto University Hospital) - Neuroendocrine carcinoma (small cell carcinoma)  
Japan (Shizuoka Tokushukei Hospital) - Neuroendocrine carcinoma  
United Kingdom (John Radcliffe Hospital) - Poorly differentiated neuroendocrine carcinoma

#### **Case 2 - Diagnosis:**

Large cell neuroendocrine carcinoma, colon  
 T-67000, D-2040

#### **Case 2 - References:**

Kato T, Terashima T, et al. Cytokeratin 20-Positive Large Cell Neuroendocrine Carcinoma of the Colon. *Pathol Int* 2005; 55(8):524-529.  
 Huang SS, Jan YJ, et al. Large Cell Neuroendocrine Carcinoma of the Ampulla of Vater. Report of a Case. *Surg Today* 2006; 36(11):1032-1035.  
 Bernick PE, Klimstra DS, et al. Neuroendocrine Carcinomas of the Colon and Rectum. *Dis Colon Rectum* 2004; 47(2):163-169.  
 Huang WS, Lin PY, et al. Metastatic Merkel Cell Carcinoma in the Rectum. Report of a Case. *Dis Colon Rectum* 2007; 50(11):1992-1995.  
 Welborn J, Jenks H, et al. High-Grade Neuroendocrine Carcinomas Display Unique Cytogenetic Aberrations. *Cancer Genet Cytogenet* 2004; 155(1):33-41.

#### **Case No. 3, Accession No. 30810**

**March 2009**

Alameda (Alameda County Medical Center) - Endometrioid adenocarcinoma, ciliated cell variant  
Fontana (Kaiser Foundation) - Endometrial carcinoma  
Glendale - Mucinous carcinoma  
Long Beach (Long Beach Veterans Administration) - Adenocarcinoma endometrioid type (5)  
Oakland - Mucinous cystadenocarcinoma  
Oxnard (St. John's Regional Medical Center) - Adenocarcinoma (4)  
Pleasant Hill - Endometrioid adenocarcinoma  
San Diego (Naval Medical Center) - Endometrioid adenocarcinoma  
San Diego (Scripps) - Endometrioid carcinoma  
Santa Barbara - Endometrioid carcinoma  
Woodland Hills (Kaiser Permanente) - Endometrioid adenocarcinoma  
Colorado (McKee Medical Center) - Papillary carcinoma, possibly renal origin  
Georgia, Decatur - Endometrioid adenocarcinoma  
Hayward (St. Rose Hospital) - Adenocarcinoma, enteric type, probably metastatic  
Illinois, Burr Ridge - Well differentiated adenocarcinoma, endometrioid ciliated-cell  
Illinois, Chicago - Endometrioid adenocarcinoma (2)

Illinois (Adventist Glen Oaks Hospital) - Endometrioid adenocarcinoma  
Illinois (Heartland Regional Medical Center) - Well-differentiated endometrioid adenocarcinoma  
Illinois (Loyola University Medical Center) - Endometrioid carcinoma, ovary  
Louisiana (LSU-HSC) - Endometrioid adenocarcinoma  
Massachusetts (Tufts-New England Medical Center) - Endometrioid carcinoma, grade 1  
Massachusetts (University of Massachusetts) - Adenocarcinoma ovary, endometrioid type  
Michigan (Oakwood Hospital) - Endometrioid carcinoma  
Minnesota (Fairview Ridges Hospital) - Endometrioid adenocarcinoma with squamous differentiation  
Missouri (Missouri Delta Medical Center) - Adenocarcinoma, serous type  
Nebraska (Creighton University Medical Center) - Endometrial carcinoma of the ovary  
New York (Albany Medical Center) - Endometrioid adenocarcinoma  
New York (Long Island Jewish Medical Center) - Endometrioid adenocarcinoma  
New York (North Shore University Hospital) - Endometrioid carcinoma  
New York (St. Lukes Roosevelt Hospital) - Endometrioid carcinoma (2)  
New York (Stony Brook Medical Center) - Endometrioid adenocarcinoma  
New York (SUNY Downstate Medical Center) - Endometrioid adenocarcinoma  
New York (Westchester County Medical Center) - Endometrioid adenocarcinoma  
North Carolina (North Carolina Baptist Hospital) - Endometrioid adenocarcinoma  
Ohio (The University of Toledo) - Endometrioid adenocarcinoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Endometrioid carcinoma with squamous metaplasia  
Pennsylvania (Lehigh Valley Hospital) - Adenocarcinoma, endometrioid type  
Pennsylvania (Magee Women's Hospital) - Endometrioid carcinoma with squamous differentiation  
Puerto Rico (University of Puerto Rico) - Endometrioid carcinoma tubal/ovarian  
Texas (Crystal Beach) - Adenocarcinoma, mucin producing, possibly fallopian tube origin  
Texas, Houston - Papillary serous cystadenocarcinoma  
Texas, Lubbock - Serous cystadenocarcinoma  
Texas (Scott & White Memorial Hospital) - Endometrioid adenocarcinoma  
Washington, Seattle (VAMC) - Adenocarcinoma, endometrioid type  
West Virginia (Greenbrier Valley Medical Center) - Serous cystadenoma, borderline  
Wisconsin, Green Bay - Well-differentiated endometrioid carcinoma  
Wisconsin, Madison - Endometrioid adenocarcinoma  
Australia (Royal Hobart Hospital) - Probable endometrioid adenocarcinoma with squamous differentiation  
Canada (Pasqua Hospital) - Endometrioid carcinoma  
Canada (University of Sherbrooke) - Endometrioid carcinoma with mucinous and squamous differentiation  
Ireland (Beaumont Hospital) - Endometrioid adenocarcinoma with squamous differentiation  
Ireland (Kerry General Hospital) - Endometrioid carcinoma  
Japan (Asahi General Hospital) - Mucinous carcinoma of fallopian tube  
Japan (Kyoto University Hospital) - Endometrioid adenocarcinoma, NOS, ovary  
Japan (Shizuoka Tokushukei Hospital) - Endometrioid adenocarcinoma  
United Kingdom (John Radcliffe Hospital) - Endometrioid carcinoma, ovary

### **Case 3 - Diagnosis:**

Endometrioid adenocarcinoma, ovary and oviduct  
 T-71000/T-87000, M-87000/M-81403

### **Case 3 - References:**

- Storey DJ, Rush R, Stewart M, et al. Endometrioid Epithelial Ovarian Cancer. 20 Years of Prospectively Collected Data from a Single Center. *Cancer* 2008; 112(10):2211-2220.  
 Cuton LK, Deavers MT, Silva EG, et al. Endometrioid Carcinoma Simultaneously Involving the Uterus and the Fallopian Tube. A Clinicopathologic Study of 13 Cases. *Am J Surg Pathol* 2006; 30(7):844-849.  
 Bell KA and Kurman RJ. A Clinicopathologic Analysis of Atypical Proliferative (Borderline) Tumors and Well-Differentiated Endometrioid. Adenocarcinomas of the Ovary. *Am J Surg Pathol* 2000; 24(11):1465-1479.  
 Grosso G, Raspagliesi F, Baiocchi G, et al. Endometrioid Carcinoma of the Ovary. A Retrospective Analysis of 106 Cases. *Tumori* 1998; 84(5):552-557  
 Kaku T, Matsuo K, Tsukamoto N, et al. Endometrial Carcinoma in Women Ages 40 Years or Younger. A Japanese Experience. *Int J Gynecol Cancer* 1993; 3(3):147-153.

Alameda (Alameda County Medical Center) - Gastrointestinal stromal tumor  
Fontana (Kaiser Foundation) - Gastrointestinal stromal tumor  
Glendale - Gastrointestinal stromal tumor  
Long Beach (Long Beach Veterans Administration) - Gastrointestinal stromal tumor, malignant (5)  
Oakland - Gastrointestinal stromal tumor  
Oxnard (St. John's Regional Medical Center) - Gastrointestinal stromal tumor (4)  
Pleasant Hill - Gastrointestinal stromal tumor  
San Diego (Naval Medical Center) - Gastrointestinal stromal tumor  
San Diego (Scripps) - Gastrointestinal stromal tumor  
Santa Barbara - Gastrointestinal stromal tumor  
Woodland Hills (Kaiser Permanente) - Gastrointestinal stromal tumor  
Colorado (McKee Medical Center) - Gastrointestinal stromal tumor  
Florida (Naples Pathology Associates) - Gastrointestinal stromal tumor  
Georgia, Decatur - Gastrointestinal stromal tumor  
Hayward (St. Rose Hospital) - Gastrointestinal stromal tumor  
Illinois, Burr Ridge - Gastrointestinal stromal tumor  
Illinois, Chicago - Gastrointestinal stromal tumor (2)  
Illinois (Adventist Glen Oaks Hospital) - Gastrointestinal stromal tumor  
Illinois (Heartland Regional Medical Center) - Gastrointestinal stromal tumor of low malignant potential  
Illinois (Loyola University Medical Center) - Gastrointestinal stromal tumor, stomach  
Louisiana (LSU-HSC) - Gastrointestinal stromal tumor  
Massachusetts (Tufts-New England Medical Center) - Gastrointestinal stromal tumor  
Massachusetts (University of Massachusetts) - Epithelioid GIST  
Michigan (Oakwood Hospital) - Epithelioid gastrointestinal stromal tumor  
Minnesota (Fairview Ridges Hospital) - Epithelioid gastrointestinal stromal tumor  
Missouri (Missouri Delta Medical Center) - GIST with clear cell features  
Nebraska (Creighton University Medical Center) - Gastrointestinal stromal tumor (GIST)  
New Mexico, Albuquerque - Gastrointestinal stromal tumor  
New York (Albany Medical Center) - GIST, low risk  
New York (Long Island Jewish Medical Center) - Malignant GIST  
New York (North Shore University Hospital) - Gastrointestinal stromal tumor  
New York (St. Lukes Roosevelt Hospital) - Gastrointestinal stromal tumor (2)  
New York (Stony Brook Medical Center) - Gastrointestinal stromal tumor  
New York (SUNY Downstate Medical Center) - Gastrointestinal stromal tumor  
New York (Westchester County Medical Center) - Epithelioid gastrointestinal stromal tumor  
North Carolina (North Carolina Baptist Hospital) - Epithelioid gastrointestinal stromal tumor  
Ohio (The University of Toledo) - Gastrointestinal stromal tumor  
Pennsylvania (Conemaugh Memorial Medical Center) - Gastrointestinal stromal tumor  
Pennsylvania (Lehigh Valley Hospital) - Epithelioid GIST  
Pennsylvania (Magee Women's Hospital) - Epithelioid GIST  
Puerto Rico (University of Puerto Rico) - Gastrointestinal stromal tumor  
Texas (Crystal Beach) - Leiomyoblastoma (epithelioid stromal tumor)  
Texas, Houston - Gastrointestinal stromal tumor  
Texas, Lubbock - Gastrointestinal stromal tumor  
Texas (Scott & White Memorial Hospital) - Gastrointestinal stromal tumor  
Washington, Seattle (VAMC) - Gastrointestinal stromal tumor  
West Virginia (Greenbrier Valley Medical Center) - Gastrointestinal stromal tumor  
Wisconsin, Green Bay - Gastrointestinal stromal tumor  
Wisconsin, Madison - Gastrointestinal stromal tumor  
Australia (Royal Hobart Hospital) - Epithelioid GIST  
Canada (Pasqua Hospital) - Gastrointestinal stromal tumor  
Canada (University of Sherbrooke) - Gastrointestinal stromal tumor  
Ireland (Beaumont Hospital) - Gastrointestinal stromal tumor (GIST), borderline  
Ireland (Kerry General Hospital) - Gastrointestinal stromal tumor

Japan (Asahi General Hospital) - Gastrointestinal stromal tumor  
Japan (Kyoto University Hospital) - Gastrointestinal stromal tumor, stomach  
Japan (Shizuoka Tokushukei Hospital) - Gastrointestinal stromal tumor  
United Kingdom (John Radcliffe Hospital) - Gastrointestinal stromal tumor, stomach

#### **Case 4 - Diagnosis:**

Gastrointestinal stromal tumor, stomach  
T-63950, M-96103

#### **Case 4 - References:**

Arru JM and Richardson JD. Gastrointestinal Stromal Tumors. Pathogenesis and Current Treatment. *J Ky Med Assoc* 2005; 103(5):211-215.  
Yang HK, Park Do J, et al. Clinicopathologic Characteristics of Gastrointestinal Stromal Tumor of the Stomach. *Hepathogastroent* 2008; 55(86-87):1925-1930.  
Nakomori M, Iwahashi M, et al. Laparoscopic Resection for Gastrointestinal Stromal Tumors of the Stomach. *Am J Surg* 2008; 196(3):425-429.  
Heinrich MC and Corless CL. Gastric GI Stromal Tumors (GISTs). The Role of Surgery in the Era of Targeted Therapy. *J Surg Oncol* 2005; 90(3):195-207.  
Richmond JA, Mount SL and Schwarz JE. Gastrointestinal Stromal Tumor of the Stomach with Rhabdoid Phenotype. Immunohistochemical, Ultrastructural and Immunoelectron Microscopic Evaluation. *Ultrastruct Pathol* 2004; 28(3):165-170.

#### **Case No. 5, Accession No. 30856**

**March 2009**

Alameda (Alameda County Medical Center) - Monophasic synovial sarcoma  
Fontana (Kaiser Foundation) - Hemangiopericytoma  
Glendale - Synovial sarcoma  
Long Beach (Long Beach Veterans Administration) - Synovial sarcoma, monophasic (5)  
Oakland - Synovial sarcoma vs. MPNST  
Oxnard (St. John's Regional Medical Center) - Synovial sarcoma, monophasic (4)  
Pleasant Hill - Synovial sarcoma  
San Diego (Naval Medical Center) - Synovial sarcoma/ HPC-SFT  
San Diego (Scripps) - Monophasic synovial sarcoma  
Santa Barbara - Kaposi's sarcoma  
Woodland Hills (Kaiser Permanente) - Monophasic synovial sarcoma  
Colorado (McKee Medical Center) - Monophasic synovial sarcoma  
Georgia, Decatur - Synovial sarcoma  
Hayward (St. Rose Hospital) - Synovial sarcoma/fibrosarcoma  
Illinois, Burr Ridge - Leiomyosarcoma  
Illinois, Chicago - Fibrosarcoma (2)  
Illinois (Adventist Glen Oaks Hospital) - Solitary fibrous tumor  
Illinois (Heartland Regional Medical Center) - Synovial sarcoma, monophasic fibrous type  
Illinois (Loyola University Medical Center) - Synovial sarcoma, right popliteal region  
Louisiana (LSU-HSC) - Synovial sarcoma  
Massachusetts (Tufts-New England Medical Center) - Leiomyosarcoma  
Massachusetts (University of Massachusetts) - Synovial sarcoma  
Michigan (Oakwood Hospital) - Favor monophasic synovial sarcoma  
Minnesota (Fairview Ridges Hospital) - Synovial sarcoma  
Missouri (Missouri Delta Medical Center) - Solitary fibrous tumor  
Nebraska (Creighton University Medical Center) - Spindle cell sarcoma, favor monophasic synovial sarcoma  
New Mexico, Albuquerque - Synovial sarcoma  
New York (Albany Medical Center) - Synovial sarcoma  
New York (Long Island Jewish Medical Center) - Spindle cell neoplasm, favor fibrosarcoma  
New York (North Shore University Hospital) - Synovial sarcoma  
New York (St. Lukes Roosevelt Hospital) - Synovial sarcoma (2)  
New York (Stony Brook Medical Center) - Monophasic synovial sarcoma  
New York (SUNY Downstate Medical Center) - Synovial sarcoma



New York (Westchester County Medical Center) - Synovial sarcoma  
North Carolina (North Carolina Baptist Hospital) - Hemangiopericytoma  
Ohio (The University of Toledo) - Synovial sarcoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Monophasic synovial sarcoma  
Pennsylvania (Lehigh Valley Hospital) - Monophasic synovial sarcoma  
Pennsylvania (Magee Women's Hospital) - Synovial sarcoma, monophasic  
Puerto Rico (University of Puerto Rico) - Fibrosarcoma/hemangiopericytoma, malignant  
Texas (Crystal Beach) - Sarcoma, possibly monomorphic synovial  
Texas, Houston - Synovial sarcoma  
Texas, Lubbock - Synovial sarcoma  
Texas (Scott & White Memorial Hospital) - Monophasic synovial sarcoma  
Washington, Seattle (VAMC) - Spindle cell neoplasm, possible sarcoma, need IHC  
West Virginia (Greenbrier Valley Medical Center) - Synovial sarcoma  
Wisconsin, Green Bay - Solitary fibrous tumor  
Wisconsin, Madison - Leiomyosarcoma  
Australia (Royal Hobart Hospital) - Monophasic synovial sarcoma  
Canada (Pasqua Hospital) - Leiomyosarcoma  
Canada (University of Sherbrooke) - Hemangiopericytoma  
Ireland (Beaumont Hospital) - Synovial sarcoma (need IHC to confirm)  
Ireland (Kerry General Hospital) - Monophasic synovial sarcoma  
Japan (Asahi General Hospital) - Monophasic synovial sarcoma  
Japan (Kyoto University Hospital) - Synovial sarcoma, monophasic, popliteal region  
Japan (Shizuoka Tokushukei Hospital) - Leiomyosarcoma  
United Kingdom (John Radcliffe Hospital) - Monophasic synovial carcinoma

#### **Case 5 - Diagnosis:**

Monophasic synovial sarcoma, popliteal region  
 T-14710, M-88003

#### **Case 5 - References:**

Ewing CA, Zakowski MF and Lin O. Monophasic Synovial Sarcoma. A Cytologic Spectrum. *Diagn Cytopathol* 2004; 30(1):19-23.  
 Akerman M and Domanski HA. The Complex Cytological Features of Synovial Sarcoma in Fine Needle Aspirates, An Analysis of Four Illustrative Cases. *Cytopathol* 2007; 234-240.  
 Paulino AC. Synovial Sarcoma Prognostic Factors and Patterns of Failure. *Am J Clin Oncol* 2004; 27(2):122-127.  
 Kanemitsu S and Hisaoka M. Molecular Detection of S18-SSX Fusion Gene Transcripts by cRNA In-Situ Hybridization in Synovial Sarcoma Using Formalin-Fixed, Paraffin-Embedded Tumor Tissue Specimens. *Diagn Mol Pathol* 2007; 16(1):9-17.  
 Guillou L, Benhattar J, et al. Histologic Grade, But Not SYT-SSX Fusion Type, Is An Important Prognostic Factor in Patients with Synovial Sarcoma. A Multicenter, Retrospective Analysis. *J Clin Oncol* 2004; 22(20):4040-4050.

#### **Case No. 6, Accession No. 30611**

**March 2009**

Alameda (Alameda County Medical Center) - Chordoma  
Fontana (Kaiser Foundation) - Chordoma  
Glendale - Chordoma  
Long Beach (Long Beach Veterans Administration) - Recurrent chordoma (5)  
Oakland - Chondrosarcoma  
Oxnard (St. John's Regional Medical Center) - Chordoma (4)  
Pleasant Hill - Chordoma  
San Diego (Naval Medical Center) - Chordoma  
San Diego (Scripps) - Chordoma  
Santa Barbara - Chordoma  
Woodland Hills (Kaiser Permanente) - Chordoma  
Colorado (McKee Medical Center) - Chordoma  
Florida (Naples Pathology Associates) - Chondrosarcoma  
Georgia, Decatur - Chordoma  
Hayward (St. Rose Hospital) - Chordoma

Illinois, Burr Ridge - Chordoma  
Illinois, Chicago - Chordoma (2)  
Illinois (Adventist Glen Oaks Hospital) - Chordoma  
Illinois (Heartland Regional Medical Center) - Chordoma  
Illinois (Loyola University Medical Center) - Myxoid papillary ependymoma, sacrococcygeal region  
Louisiana (LSU-HSC) - Chondroid chordoma  
Massachusetts (Tufts-New England Medical Center) - Chondrosarcoma, grade 2  
Massachusetts (University of Massachusetts) - Chordoma  
Michigan (Oakwood Hospital) - Chordoma  
Minnesota (Fairview Ridges Hospital) - Chordoma  
Missouri (Missouri Delta Medical Center) - Chordoma  
Nebraska (Creighton University Medical Center) - Chordoma  
New Mexico, Albuquerque - Myxoid chondrosarcoma  
New York (Albany Medical Center) - Chordoma  
New York (Long Island Jewish Medical Center) - Chordoma  
New York (North Shore University Hospital) - Chondrosarcoma  
New York (St. Lukes Roosevelt Hospital) - Chordoma (2)  
New York (Stony Brook Medical Center) - Chordoma  
New York (SUNY Downstate Medical Center) - Chordoma  
New York (Westchester County Medical Center) - Chondroid chordoma  
North Carolina (North Carolina Baptist Hospital) - Chordoma  
Ohio (The University of Toledo) - Chordoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Chondroid chordoma  
Pennsylvania (Lehigh Valley Hospital) - Chordoma  
Pennsylvania (Magee Women's Hospital) - Chordoma  
Puerto Rico (University of Puerto Rico) - Chordoma  
Texas (Crystal Beach) - Chordoma probable  
Texas, Houston - Chordoma  
Texas, Lubbock - Chondroid chordoma  
Texas (Scott & White Memorial Hospital) - Chordoma  
Washington, Seattle (VAMC) - Epithelioid neoplasm, chordoma/ependymoma, need IHC  
West Virginia (Greenbrier Valley Medical Center) - Chondrosarcoma, myxoid  
Wisconsin, Green Bay - Chordoma  
Wisconsin, Madison - Chordoma  
Australia (Royal Hobart Hospital) - Recurrent chondrosarcoma  
Canada (Pasqua Hospital) - Chordoma  
Canada (University of Sherbrooke) - Chordoma (chondroid type)  
Ireland (Beaumont Hospital) - Chondrosarcoma  
Ireland (Kerry General Hospital) - Chordoma  
Japan (Asahi General Hospital) - Chordoma  
Japan (Kyoto University Hospital) - Chordoma, recurrent  
Japan (Shizuoka Tokushukai Hospital) - Chondrosarcoma  
United Kingdom (John Radcliffe Hospital) - Chordoma

#### **Case 6 - Diagnosis:**

Chordoma, recurrent vs. metastatic, groin  
 T-Y7000, M-92200

#### **Case 6 - References:**

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 Hanna SA, Aston WJ, et al. Sacral Chordoma. Can Local Recurrence After Sacrectomy Be Predicted? *Clin Orthop Relat Res* 2008; 466(9):2217-2223.  
 Fan F, Templeton K, and Damjanov I. Epithelioid Cellular Chordoma of the Sacrum. A Potential Diagnostic Problem. *Ann Diagn Pathol* 2005; 139-142.  
 Ruiz HA, Goldberg LH, et al. Cutaneous Metastasis of Chordoma. *Dermatol Surg* 2000; 26(3):259-262.  
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**Case No. 7, Accession No. 30864**

**March 2009**

Alameda (Alameda County Medical Center) - Oncocytoma  
Fontana (Kaiser Foundation) - Renal cell carcinoma  
Glendale - Oncocytoma  
Long Beach (Long Beach Veterans Administration) - Oncocytoma (5)  
Oakland - Renal cell carcinoma (oncocytoma)  
Oxnard (St. John's Regional Medical Center) - Oncocytoma (4)  
Pleasant Hill - Oncocytoma  
San Diego (Naval Medical Center) - Oncocytoma  
Santa Barbara - Oncocytoma  
Woodland Hills (Kaiser Permanente) - Oncocytoma  
Colorado (McKee Medical Center) - Oncocytoma  
Florida (Naples Pathology Associates) - Oncocytoma  
Georgia, Decatur - Renal oncocytoma  
Hayward (St. Rose Hospital) - Oncocytoma  
Illinois, Burr Ridge - Renal cell carcinoma (thyroid follicular carcinoma-like)  
Illinois, Chicago - Papillary renal cell carcinoma (2)  
Illinois (Adventist Glen Oaks Hospital) - Oncocytoma  
Illinois (Heartland Regional Medical Center) - Oncocytoma  
Illinois (Loyola University Medical Center) - Oncocytoma, left kidney  
Louisiana (LSU-HSC) - Oncocytoma  
Massachusetts (Tufts-New England Medical Center) - Oncocytoma  
Massachusetts (University of Massachusetts) - Oncocytoma  
Michigan (Oakwood Hospital) - Oncocytoma  
Minnesota (Fairview Ridges Hospital) - Oncocytoma  
Missouri (Missouri Delta Medical Center) - Chromophobe renal cell cancer  
Nebraska (Creighton University Medical Center) - Oncocytoma  
New Mexico, Albuquerque - Renal cell carcinoma, chromophobe type  
New York (Albany Medical Center) - Oncocytoma  
New York (Long Island Jewish Medical Center) - Oncocytoma  
New York (North Shore University Hospital) - Oncocytoma  
New York (St. Lukes Roosevelt Hospital) - Chromophobe carcinoma (2)  
New York (Stony Brook Medical Center) - Oncocytoma  
New York (SUNY Downstate Medical Center) - Oncocytoma  
New York (Westchester County Medical Center) - Oncocytoma  
North Carolina (North Carolina Baptist Hospital) - Oncocytoma  
Ohio (The University of Toledo) - Oncocytoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Oncocytoma  
Pennsylvania (Lehigh Valley Hospital) - Oncocytoma  
Pennsylvania (Magee Women's Hospital) - Oncocytoma  
Puerto Rico (University of Puerto Rico) - Oncocytoma  
Texas (Crystal Beach) - Oncocytoma  
Texas, Houston - Oncocytoma  
Texas, Lubbock - Renal cell carcinoma, conventional type  
Texas (Scott & White Memorial Hospital) - Oncocytoma  
Washington, Seattle (VAMC) - Renal oncocytoma  
West Virginia (Greenbrier Valley Medical Center) - Renal cell carcinoma, chromophobe  
Wisconsin, Green Bay - Oncocytoma  
Wisconsin, Madison - Oncocytoma  
Australia (Royal Hobart Hospital) - Oncocytoma  
Canada (Pasqua Hospital) - Oncocytoma

Canada (University of Sherbrooke) - Oncocytoma  
Ireland (Beaumont Hospital) - Oncocytoma  
Ireland (Kerry General Hospital) - Oncocytoma  
Japan (Asahi General Hospital) - Renal oncocytoma  
Japan (Kyoto University Hospital) - Oncocytoma, left kidney  
Japan (Shizuoka Tokushukai Hospital) - Granular cell renal cell carcinoma  
United Kingdom (John Radcliffe Hospital) - Oncocytoma, kidney

**Case 7 - Diagnosis:**

Oncocytoma, kidney  
 T-71000, M-82900

**Case 7 - References:**

Tickoo SK, Reuter VE, Amin MB, et al. Renal Oncocytosis. A Morphologic Study of Fourteen Cases. *Am J Surg Pathol* 1999; 23(9):1094-1101.  
 Mathers ME, Pollock AM, et al. Cytokeratin 7. A Useful Adjunct in the Diagnosis of Chromophobe Renal Cell Carcinoma. *Histopathol* 2002; 40(6):563-567.  
 Stopyra GA, Warhol MJ, et al. Cytokeratin 20 Immunoreactivity in Renal Oncocytomas. *J Histochem Cytochem* 2001; 49(7):919-920.  
 Mai KT, Teo I, et al. Progesterone Receptor Reactivity in Renal Oncocytoma and Chromophobe Renal Cell Carcinoma. *Histopathol* 2008; 52(3):277-282.  
 Lin F, Yang W, et al. Expression of S-100 Protein in Renal Cell Neoplasms. *Hum Pathol* 2006; 37(4):462-470.

**Case No. 8, Accession No. 30837**

**March 2009**

Alameda (Alameda County Medical Center) - Renal cell carcinoma, papillary variant  
Fontana (Kaiser Foundation) - Papillary renal cell carcinoma  
Glendale - Papillary renal cell carcinoma, type 2  
Long Beach (Long Beach Veterans Administration) - Renal cell carcinoma, papillary type (5)  
Oakland - Renal cell carcinoma (oncocytoma)  
Oxnard (St. John's Regional Medical Center) - Renal cell carcinoma (4)  
Pleasant Hill - Papillary renal cell carcinoma  
San Diego (Naval Medical Center) - Papillary renal cell carcinoma  
San Diego (Scripps) - Papillary renal cell carcinoma  
Santa Barbara - Chromophil renal cell carcinoma  
Woodland Hills (Kaiser Permanente) - Papillary renal cell carcinoma  
Colorado (McKee Medical Center) - Papillary renal cell carcinoma with oncocytic features  
Florida (Naples Pathology Associates) - Papillary renal cell carcinoma  
Georgia, Decatur - Papillary renal cell carcinoma  
Hayward (St. Rose Hospital) - Papillary carcinoma, type I kidney  
Illinois, Burr Ridge - Collecting duct carcinoma  
Illinois, Chicago - Papillary renal cell carcinoma (2)  
Illinois (Adventist Glen Oaks Hospital) - Renal cell carcinoma, papillary  
Illinois (Heartland Regional Medical Center) - Renal cell carcinoma, papillary type  
Illinois (Loyola University Medical Center) - Papillary renal cell carcinoma, right kidney  
Louisiana (LSU-HSC) - Papillary renal cell carcinoma  
Massachusetts (Tufts-New England Medical Center) - Papillary renal cell carcinoma  
Massachusetts (University of Massachusetts) - Papillary renal cell carcinoma  
Michigan (Oakwood Hospital) - Papillary renal carcinoma  
Minnesota (Fairview Ridges Hospital) - Papillary renal cell carcinoma  
Missouri (Missouri Delta Medical Center) - Papillary renal cell cancer  
Nebraska (Creighton University Medical Center) - Renal cell carcinoma, papillary type  
New Mexico, Albuquerque - Renal cell carcinoma, papillary type  
New York (Albany Medical Center) - Papillary renal cell carcinoma  
New York (Long Island Jewish Medical Center) - Papillary renal cell carcinoma, type 2  
New York (North Shore University Hospital) - Papillary renal cell carcinoma

New York (St. Lukes Roosevelt Hospital) - Papillary carcinoma, type 2 (1); Papillary renal cell carcinoma, nuclear, type 2  
New York (Stony Brook Medical Center) - Papillary renal cell carcinoma (type 2)  
New York (SUNY Downstate Medical Center) - Papillary renal cell carcinoma  
New York (Westchester County Medical Center) - Papillary renal cell carcinoma  
North Carolina (North Carolina Baptist Hospital) - Papillary renal cell carcinoma  
Ohio (The University of Toledo) - Papillary renal cell carcinoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Papillary renal cell carcinoma  
Pennsylvania (Lehigh Valley Hospital) - Papillary renal cell carcinoma  
Pennsylvania (Magee Women's Hospital) - Papillary renal cell carcinoma, eosinophilic variant  
Puerto Rico (University of Puerto Rico) - Papillary renal cell carcinoma  
Texas (Crystal Beach) - Adenocarcinoma, oncocytic  
Texas, Houston - Papillary carcinoma  
Texas, Lubbock - Papillary renal cell carcinoma  
Texas (Scott & White Memorial Hospital) - Papillary renal cell carcinoma  
Washington, Seattle (VAMC) - Papillary renal cell carcinoma  
West Virginia (Greenbrier Valley Medical Center) - Renal cell carcinoma, papillary  
Wisconsin, Green Bay - Papillary renal cell carcinoma (type 2)  
Wisconsin, Madison - Chromophobe renal cell carcinoma, eosinophilic variant  
Australia (Royal Hobart Hospital) - Papillary renal cell carcinoma  
Canada (Pasqua Hospital) - Papillary renal cell carcinoma  
Canada (University of Sherbrooke) - Papillary renal carcinoma, type 2  
Ireland (Beaumont Hospital) - Papillary carcinoma, type 2  
Ireland (Kerry General Hospital) - Papillary renal cell carcinoma  
Japan (Asahi General Hospital) - Papillary renal cell carcinoma  
Japan (Kyoto University Hospital) - Type 2 papillary renal cell carcinoma  
Japan (Shizuoka Tokushukei Hospital) - Papillary renal cell carcinoma  
United Kingdom (John Radcliffe Hospital) - Papillary renal cell carcinoma

#### **Case 8 - Diagnosis:**

Papillary renal cell carcinoma, kidney  
T-71000, M-82900

#### **Case 8 - References:**

Yamanaka K and Miyake H. Papillary Renal Cell Carcinoma. A Clinicopathological Study of 35 Cases. *Int J Urol* 2006 13(8):1049-1052.  
Au WY, Ho KM and Shek TW. Papillary Renal Cell Carcinoma and Gastrointestinal Stromal Tumor. A Unique Association. *Ann Oncol* 2004; 15(5):843-844.  
Pignot G, Elie C, et al. Survival Analysis of 130 Patients with Papillary Renal Cell Carcinoma. Prognostic Utility of Type 1 and Type 2 Subclassification. *Urol* 2007; 69(2):230-235.  
Reuter VE. The Pathology of Renal Epithelial Neoplasms. *Semin Oncol* 2006; 33(5):534-543.  
Sika-Paotonu D, Bethwaite PB, et al. Nucleolar Grade But Not Fuhrman Grade is Applicable to Papillary Renal Cell Carcinoma. *Am J Surg Pathol* 2006; 1091-1096.

#### **Case No. 9, Accession No. 30816**

**March 2009**

Alameda (Alameda County Medical Center) - Renal cell carcinoma, clear cell variant  
Fontana (Kaiser Foundation) - Conventional renal cell carcinoma  
Glendale - Renal cell carcinoma, clear cell type  
Long Beach (Long Beach Veterans Administration) - Renal cell carcinoma, clear cell type (5)  
Oakland - Renal cell carcinoma, clear cell type  
Oxnard (St. John's Regional Medical Center) - Renal cell carcinoma (4)  
Pleasant Hill - Clear cell renal cell carcinoma  
San Diego (Naval Medical Center) - Clear cell renal cell carcinoma  
San Diego (Scripps) - Renal cell carcinoma, clear cell type  
Santa Barbara - Renal cell carcinoma

Woodland Hills (Kaiser Permanente) - Renal cell carcinoma, clear cell type  
Colorado (McKee Medical Center) - Classic renal cell carcinoma, clear cell type  
Florida (Naples Pathology Associates) - Clear cell renal cell carcinoma  
Georgia, Decatur - Renal cell carcinoma, clear cell/conventional type  
Hayward (St. Rose Hospital) - Renal (clear) cell carcinoma, Fuhrman, Grade II  
Illinois, Burr Ridge - Renal cell carcinoma  
Illinois, Chicago - Clear cell, renal cell carcinoma (2)  
Illinois (Adventist Glen Oaks Hospital) - Renal cell carcinoma, clear cell  
Illinois (Heartland Regional Medical Center) - Renal cell carcinoma, clear cell type, Fuhrman, Grade 2  
Illinois (Loyola University Medical Center) - Favor X translocation renal cell carcinoma over clear cell carcinoma, do TFE3 stain  
Louisiana (LSU-HSC) - Clear cell, renal cell carcinoma  
Massachusetts (Tufts-New England Medical Center) - Conventional renal cell carcinoma  
Massachusetts (University of Massachusetts) - Renal cell carcinoma, clear cell type  
Michigan (Oakwood Hospital) - Clear cell, renal carcinoma  
Minnesota (Fairview Ridges Hospital) - Clear cell, renal cell carcinoma  
Missouri (Missouri Delta Medical Center) - Renal cell cancer, clear cell type  
Nebraska (Creighton University Medical Center) - Renal cell carcinoma, clear cell type  
New Mexico, Albuquerque - Renal cell carcinoma, conventional type  
New York (Albany Medical Center) - Renal cell carcinoma, clear cell type  
New York (Long Island Jewish Medical Center) - Clear cell, renal cell carcinoma, Fuhrman, Grade 1  
New York (North Shore University Hospital) - Clear cell, renal cell carcinoma  
New York (St. Lukes Roosevelt Hospital) - Clear cell carcinoma, renal cell carcinoma (2)  
New York (Stony Brook Medical Center) - Clear cell, renal cell carcinoma  
New York (SUNY Downstate Medical Center) - Clear cell, renal cell carcinoma  
New York (Westchester County Medical Center) - Clear cell carcinoma  
North Carolina (North Carolina Baptist Hospital) - Conventional renal cell carcinoma  
Ohio (The University of Toledo) - Clear renal cell carcinoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Renal cell carcinoma, clear cell type  
Pennsylvania (Lehigh Valley Hospital) - Renal cell carcinoma, clear cell type  
Pennsylvania (Magee Women's Hospital) - Clear cell, renal cell carcinoma  
Puerto Rico (University of Puerto Rico) - Clear cell carcinoma  
Texas (Crystal Beach) - Clear cell carcinoma  
Texas, Houston - Clear cell carcinoma  
Texas, Lubbock - Renal cell carcinoma, clear cell type  
Texas (Scott & White Memorial Hospital) - Clear cell, renal cell carcinoma  
Washington, Seattle (VAMC) - Clear cell, renal cell carcinoma  
West Virginia (Greenbrier Valley Medical Center) - Renal cell carcinoma, clear cell  
Wisconsin, Green Bay - Clear cell, renal cell carcinoma  
Wisconsin, Madison - Clear cell, renal cell carcinoma  
Australia (Royal Hobart Hospital) - Clear cell, renal cell carcinoma, grade 2  
Canada (Pasqua Hospital) - Clear cell carcinoma  
Canada (University of Sherbrooke) - Clear cell carcinoma  
Ireland (Beaumont Hospital) - Clear cell carcinoma  
Ireland (Kerry General Hospital) - Renal clear cell carcinoma  
Japan (Asahi General Hospital) - Clear cell, renal cell carcinoma  
Japan (Kyoto University Hospital) - Clear cell, renal cell carcinoma  
Japan (Shizuoka Tokushukei Hospital) - Clear cell, renal cell carcinoma  
United Kingdom (John Radcliffe Hospital) - Clear cell, renal cell carcinoma

#### **Case 9 - Diagnosis:**

Clear cell (conventional) renal cell carcinoma, kidney  
 T-71000, M-83123

#### **Case 9 – References:**

Kim WY and Kaelin WG. Molecular Pathways in Renal Cell Carcinoma. Rationale for Targeted Treatment. *Semin Oncol* 2006; 33(5):588-595.

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.

Rioux-Leclercq N, Karakiewicz PI, et al. Prognostic Ability of Simplified Nuclear Grading of Renal Cell Carcinoma. *Cancer* 2007; 109(5):868-874.

Lin F, Yang W, Betten M, et al. Expression of S-100 Protein in Renal Cell Neoplasms. *Hum Pathol* 2006; 37(4):462-470.

Volmar KE, Cummings TJ, et al. Clear Cell Hidradenoma. A Mimic of Metastatic Clear Cell Tumors. *Arch Pathol Lab Med* 2005; 129(5):113-116.

## Case No. 10, Accession No. 30797

March 2009

Alameda (Alameda County Medical Center) - Cystic nephroblastoma  
Fontana (Kaiser Foundation) - Wilms tumor  
Glendale - Wilms tumor  
Long Beach (Long Beach Veterans Administration) - Wilms tumor (5)  
Oakland - Wilms tumor  
Oxnard (St. John's Regional Medical Center) - Wilms (4)  
Pleasant Hill - Wilms tumor  
San Diego (Naval Medical Center) - Metanephric adenoma  
San Diego (Scripps) - Clear cell sarcoma of kidney  
Santa Barbara - Metanephric adenoma  
Woodland Hills (Kaiser Permanente) - Nephroblastoma  
Colorado (McKee Medical Center) - Wilms tumor  
Florida (Naples Pathology Associates) - Metanephric adenoma  
Georgia, Decatur - Wilms tumor, partially cystic  
Hayward (St. Rose Hospital) - Wilms tumor  
Illinois, Burr Ridge - Cystic nephroblastoma  
Illinois, Chicago - Metanephric adenoma (2)  
Illinois (Adventist Glen Oaks Hospital) - Nephroblastoma  
Illinois (Heartland Regional Medical Center) - Differentiated nephroblastoma  
Illinois (Loyola University Medical Center) - Clear cell sarcoma, right kidney  
Louisiana (LSU-HSC) - Neuroblastoma  
Massachusetts (Tufts-New England Medical Center) - Cystic partially differentiated nephroblastoma  
Massachusetts (University of Massachusetts) - Wilms tumor  
Michigan (Oakwood Hospital) - Metanephric adenoma  
Minnesota (Fairview Ridges Hospital) - Nephroblastoma  
Missouri (Missouri Delta Medical Center) - Wilms tumor  
Nebraska (Creighton University Medical Center) - Metanephric adenoma  
New Mexico, Albuquerque - Metanephric adenoma  
New York (Albany Medical Center) - Epithelial predominant nephroblastoma (Wilms tumor)  
New York (Long Island Jewish Medical Center) - Wilms tumor  
New York (North Shore University Hospital) - Clear cell sarcoma  
New York (St. Lukes Roosevelt Hospital) - Wilms tumor (1); Nephroblastoma (1)  
New York (Stony Brook Medical Center) - Wilms tumor  
New York (SUNY Downstate Medical Center) - Nephroblastoma  
New York (Westchester County Medical Center) - Metanephric adenoma  
North Carolina (North Carolina Baptist Hospital) - Wilms tumor  
Ohio (The University of Toledo) - Metanephric adenoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Cystic partially differentiated Wilms tumor  
Pennsylvania (Lehigh Valley Hospital) - Nephroblastoma  
Pennsylvania (Magee Women's Hospital) - Epithelial predominant nephroblastoma  
Puerto Rico (University of Puerto Rico) - Wilms tumor/metanephric  
Texas (Crystal Beach) - Wilms tumor  
Texas, Houston - Nephroblastoma  
Texas, Lubbock - Clear cell sarcoma

Texas (Scott & White Memorial Hospital) - Metanephric adenoma  
Washington, Seattle (VAMC) - Metanephric adenoma  
West Virginia (Greenbrier Valley Medical Center) - Nephroblastoma  
Wisconsin, Green Bay - Mesoblastic nephroma  
Wisconsin, Madison - Wilms tumor  
Australia (Royal Hobart Hospital) - Nephroblastoma  
Canada (Pasqua Hospital) - Wilms tumor  
Canada (University of Sherbrooke) - Wilms tumor  
Ireland (Beaumont Hospital) - Wilms tumor  
Ireland (Kerry General Hospital) - Wilms tumor  
Japan (Asahi General Hospital) - Metanephric adenoma  
Japan (Kyoto University Hospital) - Nephroblastoma  
Japan (Shizuoka Tokushukei Hospital) - Nephroblastoma  
United Kingdom (John Radcliffe Hospital) - Nephroblastoma

**Case 10 - Diagnosis:**

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

**Case 10 - References:**

Kukuzawa R, Anaka MR, et al. Wilms Tumour Histology is Determined By Distinct Types of Precursor Lesions and Not Epigenetic Changes. *J Pathol* 2008; 215(4):377-387.  
Argani P. Metanephric Neoplasms. The Hyperdifferentiated, Benign End of the Wilms Tumor Spectrum? *Clin Lab Med* 2005; 25(2):379-392.  
Hohenstein P and Hastie ND. The Many Facets of the Wilms Tumour Gene, WT1. *Hum Mol Genet* 2006; 15 Spec No 2. R196-201.  
Fisher EG and Carney JA. An Immunophenotypic Comparison of Metanephric Metaplasia of Bowman Capsular Epithelium with Metanephric Adenoma, Wilms Tumor, and Renal Development. A Case Report and Review of the Literature. *Am J Clin Pathol* 2004; 121(6):850-856.  
Dolan M and Mascotti K. Cytogenetically Unrelated Clones in Different Histologic Components of a Wilms Tumor. *Cancer Genet Cytogenet* 2005; 63-68.