



CALIFORNIA
TUMOR TISSUE REGISTRY

GENERAL PATHOLOGY

Minutes – Subscription A

March 2011



SUGGESTED READING (General Topics from Recent Literature):

Cellular Cohesion as a Prognostic Factor in Malignant Melanoma: A Retrospective Study With Up to 12 Years Follow-UP. Roxanis I and Chow *J. Mod Pathol* 2010; 23:502-510.

Is It Useful to Detect Lymphovascular Invasion in Lymph Node-Positive Patients With Primary Operable Breast Cancer? Ragage F, Debled M, et al. *Cancer* 2010; 116:3093-3101.

Prognostic Value of Mucin4 Expression in Colorectal Adenocarcinomas. Shanmugam C, Jhala NC, et al. *Cancer* 2010; April 29: epub ahead of print.

Encapsulated Well-Differentiated Follicular-Patterned Thyroid Carcinomas Do Not Play a Significant Role in the Fatality Rates From Thyroid Carcinomas. Piana S, Frasoldati A, et al. *Am J Surg Pathol* 2010; 34:868-872.

Non-Mycosis Fungoides Cutaneous T-Cell Lymphoma: Reclassification According to the WHO-EORTC Classification. Weaver J, Mahindra AK, et al. *J Cutan Pathol* 2010; 37:516-524.

California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
Loma Linda University School of Medicine
11021 Campus Avenue, AH 335
Loma Linda, California 92350
(909) 558-4788
FAX: (909) 558-0188
E-mail: cttr@linkline.com
Web site & Case of the Month: www.cttr.org

FILE DIAGNOSES

CTTR Subscription A

March 2011

Case 1:

Papillary carcinoma, columnar/tall cell variant, thyroid
T-96000, M-80503

Case 2:

Pancreatic endocrine neoplasm (“islet cell tumor/neuroendocrine tumor”)
T-59000, M-81500

Case 3:

Wilms tumor with chemotherapy effects, kidney
T-71000, M-89603

Case 4:

Collecting duct carcinoma (of Bellini), kidney
T-71000, M-83123

Case 5:

Neuroendocrine tumor c/w carcinoid tumor, retroperitoneum
T-Y4600, M-82401

Case 6:

High grade urothelial carcinoma, urinary bladder
T-74000, M-81203

Case 7:

Desmoplastic small round cell tumor, intra-abdominal
T-Y4500, M-88211

Case 8:

Glioblastoma multiforme, brain
T-Y4500, M-88211

Case 9:

Pleomorphic adenoma (benign mixed tumor), parotid
T-55100, M-89400

Case 10:

Adult granulosa cell tumor, ovary
T-87000, M-86201

Arcadia (ABC Laboratories) - Papillary carcinoma
Camarillo (St. John's Pleasant Valley Hospital) - Papillary carcinoma, columnar cell variant
Fontana (Kaiser Foundation Hospital) - Papillary carcinoma
Glendale - Papillary carcinoma, tall cell variant
Hayward-Fremont - Papillary carcinoma, thyroid
Long Beach - Papillary thyro-carcinoma
Oakland (Alameda County Medical Center) - Papillary carcinoma, tall cell/columnar type
San Diego (Naval Medical Center, San Diego) - Papillary carcinoma of the thyroid, tall cell variant
Santa Barbara - Papillary carcinoma, tall cell type
Woodland Hills (Southern California Permanente Medical Group) - Papillary thyroid carcinoma, columnar cell variant
Arkansas (Associated Pathologist Laboratory) - Papillary carcinoma, tall cell variant
Colorado (McKee Medical Center) - Tall cell variant, papillary thyroid carcinoma
Florida (Monroe Regional Medical Center) - Papillary carcinoma
Florida (Naples Pathology Associates) - Papillary thyroid carcinoma, tall cell variant
Georgia, Atlanta - Papillary thyroid carcinoma
Georgia, (Emory University) - Papillary thyroid carcinoma
Illinois (Heartland Regional Medical Center) - Papillary carcinoma
Illinois, Orland Park - Papillary carcinoma
Kansas (Cytocheck Laboratory) - Papillary carcinoma
Massachusetts (BWH- Pathology) - Papillary thyroid carcinoma, columnar variant
Massachusetts, Peabody - Papillary adenocarcinoma, thyroid
Massachusetts (University of Massachusetts Medical Center) - Papillary thyroid carcinoma, tall cell variant
Michigan, Caledonia - Papillary carcinoma of thyroid, follicular variant
Minnesota (Fairview Ridges Hospital) - Papillary carcinoma of the thyroid, columnar cell type
Missouri (Missouri Delta Medical Center) - Papillary thyroid cancer (2)
Missouri (St. Luke's Hospital) - Papillary carcinoma
Nebraska (Creighton University Medical Center) - Papillary thyroid carcinoma, columnar cell variant
New Mexico (University of New Mexico) - Papillary thyroid carcinoma, columnar variant
New York (Erie County Medical Center) - Tall cell variant of papillary carcinoma
New York (Staten Island University Hospital) - Papillary thyroid carcinoma, columnar cell variant
New York (SUNY Downstate Medical Center Residents) - Papillary thyroid carcinoma, tall cell features
New York (SUNY Stonybrook University Hospital) - Papillary thyroid carcinoma, tall cell variant
New York (University of Buffalo Residents) - Papillary thyroid carcinoma, tall cell variant
New York (Westchester Medical Center) - Papillary carcinoma, tall/columnar cell variant
North Carolina (North Carolina Baptist) - Papillary thyroid carcinoma, columnar cell variant
Ohio, Columbus - Papillary thyroid carcinoma, tall cell variant
Ohio, Union Town - Papillary carcinoma, columnar cell variant
Ohio (University of Toledo Residents) - Papillary thyroid carcinoma, tall cell variant
Pennsylvania (Conemaugh Valley Memorial Hospital) - Thyroid papillary carcinoma, columnar variant
Pennsylvania (Drexel University College of Medicine) - Papillary thyroid carcinoma, tall cell variant
Pennsylvania (Magee Women's Hospital) - Papillary thyroid carcinoma, tall cell variant
Pennsylvania (Pennsylvania Hospital) - Papillary thyroid carcinoma, tall cell variant
Texas (Carl R. Darnall Army Medical Center) - Papillary thyroid carcinoma
Texas, Crystal Beach - Papillary carcinoma, thyroid
Texas, Lubbock - Papillary carcinoma
Texas (Scott & White Memorial Hospital) - Papillary thyroid carcinoma
Virginia, Falls Church - Papillary thyroid cancer, tall variant
Washington (Seattle VAMC) - Papillary carcinoma/tall cell variant
West Virginia (Greenbrier Valley Medical Center) - Follicular variant of papillary carcinoma
Wisconsin (Medical Assessment & Consultation, S.C.) - Papillary thyroid carcinoma
Australia (Royal Prince Alfred Hospital) - Papillary thyroid carcinoma, tall cell variant
Australia (St. Vincent's Hospital, Sydney) - Papillary carcinoma, thyroid
Australia (Sullivan Nicolaides Pathology) - Papillary thyroid carcinoma, tall cell variant
Canada (Pasqua Hospital) - Tall cell variant of papillary carcinoma
Canada (Saint-Antoine/Richeueu) - Papillary thyroid carcinoma

Canada (University of Sherbrooke) - Papillary carcinoma, tall cell type
England (John Radcliffe Hospital) - Papillary carcinoma, tall cell variant
Ireland (Kerry General Hospital) - Papillary carcinoma, tall cell variant
Ireland (University Hospital, Galway) - Papillary thyroid carcinoma, columnar cell variant
Japan (Asashi General Hospital) - Papillary carcinoma, tall cell variant
Japan (Setagaya-Ku) - Papillary carcinoma, thyroid
Oman (Sultanate of Aziba) - Papillary carcinoma, tall cell variant
Singapore (Singapore General Hospital) - Papillary carcinoma, columnar cell variant

Case 1 - Diagnosis:

Papillary carcinoma, columnar/tall cell variant, thyroid
 T-96000, M-80503

Case 1 - References:

Papillary carcinoma tall cell variant (TCV): a review. *Endocr Pathol* 2010; Mar;21(1): p12-5. Li Volsi VA.

Squamous cell carcinoma associated with tall cell variant of papillary carcinoma of the thyroid. *Indian J Pathol Microbiol* 2010; Jul-Sep;53(3): p548-50. Ashraf MJ; Azarpira N; Khademi B; Peiravi M.

Columnar cell thyroid carcinoma - diagnostic dilemmas and pitfalls. *Nucl Med Rev Cent East Eur* 2003;6(2): p155-8. Zagar I; Videgar-Kralj B; Schwarzbartl-Pevac AA; Pompe F.

Columnar cell variant of papillary thyroid carcinoma. Report of a case with cytologic findings. *Acta Cytol* 2004; Jan-Feb;48(1): p73-7. Ylagan LR; Dehner. LP; Huettner PC; Lu D.

Morphologic spectrum of papillary carcinoma of the thyroid: role of cytology in identifying the variants. *Acta Cytol* 2004; Nov-Dec;48(6): p795-800. Gupta S; Sodhani P; Jain S; Kumar N.

Distinguishing tall cell variant of papillary thyroid carcinoma from usual variant of papillary thyroid carcinoma in cytologic specimens. *Diagn Cytopathol* 2002; Sep;27(3): p143-8. Solomon A; Gupta PK; Li Volsi VA; Baloch ZW.

Case No. 2, Accession No. 29414

March 2011

Arcadia (ABC Laboratories) - Islet cell tumor
Camarillo (St. John's Pleasant Valley Hospital) - Pancreatic endocrine neoplasm
Fontana (Kaiser Foundation Hospital) - Pancreatic endocrine neoplasm
Glendale - Pancreatic endocrine tumor
Hayward-Fremont - Pancreatic endocrine neoplasm, well-differentiated
Long Beach - Neuroendocrine carcinoma
Oakland (Alameda County Medical Center) - Pancreatic endocrine neoplasm
San Diego (Naval Medical Center, San Diego) - Well-differentiated pancreatic endocrine neoplasm
Santa Barbara - Pancreatic endocrine tumor
Woodland Hills (Southern California Permanente Medical Group) - Well-differentiated pancreatic endocrine tumor
Arkansas (Associated Pathologist Laboratory) - Well-differentiated pancreatic endocrine neoplasm, NOS
Colorado (McKee Medical Center) - Well-differentiated endocrine carcinoma
Florida (Monroe Regional Medical Center) - Neuroendocrine tumor
Florida (Naples Pathology Associates) - Pancreatic endocrine neoplasm
Georgia, Atlanta - Neuroendocrine tumor of the pancreas
Georgia, (Emory University) - Non-functioning pancreatic endocrine neoplasm
Illinois (Heartland Regional Medical Center) - Pancreatic endocrine tumor
Illinois, Orland Park - Pancreatic endocrine neoplasm
Kansas (Cytocheck Laboratory) - Pancreatic endocrine tumor
Massachusetts (BWH- Pathology) - Pancreatic neuroendocrine tumor, high grade

Massachusetts, Peabody - Well-differentiated pancreatic endocrine neoplasm
Massachusetts (University of Massachusetts Medical Center) - Neuroendocrine tumor of the pancreas
Michigan, Caledonia - Well-differentiated endocrine carcinoma of pancreas
Minnesota (Fairview Ridges Hospital) - Pancreatic endocrine tumor
Missouri (Missouri Delta Medical Center) - Neuroendocrine cancer (1); Medullary carcinoma (1)
Missouri (St. Luke's Hospital) - Islet cell (neuroendocrine) tumor
Nebraska (Creighton University Medical Center) - Neuroendocrine tumor, low grade
New Mexico (University of New Mexico) - Pancreatic endocrine neoplasm, well-differentiated
New York (Erie County Medical Center) - Pancreatic endocrine neoplasm with blood vessel invasion
New York (Staten Island University Hospital) - Pancreatic endocrine neoplasm
New York (SUNY Downstate Medical Center Residents) - Pancreatic endocrine neoplasm, high grade
New York (SUNY Stonybrook University Hospital) - Pancreatic endocrine neoplasm
New York (University of Buffalo Residents) - Well-differentiated pancreatic endocrine neoplasm
New York (Westchester Medical Center) - Well-differentiated neuroendocrine tumor of uncertain behavior
North Carolina (North Carolina Baptist) - Pancreatic endocrine neoplasm
Ohio, Columbus - Well-differentiated neuroendocrine carcinoma
Ohio, Union Town - Pancreatic endocrine neoplasm
Ohio (University of Toledo Residents) - Neuroendocrine neoplasm of pancreas
Pennsylvania (Conemaugh Valley Memorial Hospital) - Pancreatic neuroendocrine tumor
Pennsylvania (Drexel University College of Medicine) - Pancreatic endocrine neoplasm
Pennsylvania (Magee Women's Hospital) - Pancreatic endocrine neoplasm
Pennsylvania (Pennsylvania Hospital) - Pancreatic endocrine neoplasm
Texas (Carl R. Darnall Army Medical Center) - Pancreatic endocrine neoplasm, well-differentiated
Texas, Crystal Beach - Carcinoid tumor
Texas, Lubbock - Neuroendocrine carcinoma
Texas (Scott & White Memorial Hospital) - Neuroendocrine tumor
Virginia, Falls Church - Neuroendocrine tumor, low grade
Washington (Seattle VAMC) - Endocrine epithelial neoplasm
West Virginia (Greenbrier Valley Medical Center) - Endocrine neoplasm of the pancreas
Wisconsin (Medical Assessment & Consultation, S.C.) - Pancreatic islet cell neoplasm, tumor
Australia (Royal Prince Alfred Hospital) - Pancreatic neuroendocrine tumor
Australia (St. Vincent's Hospital, Sydney) - Pancreatic neuroendocrine carcinoma, grade 2
Australia (Sullivan Nicolaides Pathology) - Well-differentiated neuroendocrine tumor
Canada (Pasqua Hospital) - Endocrine neoplasm
Canada (Saint-Antoine/Richeueu) - Pancreatic endocrine neoplasm
Canada (University of Sherbrooke) - Neuroendocrine carcinoma
England (John Radcliffe Hospital) - Pancreatic endocrine neoplasm
Ireland (Kerry General Hospital) - Pancreatic endocrine tumor
Ireland (University Hospital, Galway) - Pancreatic endocrine tumor
Japan (Asashi General Hospital) - Well-differentiated endocrine tumor
Japan (Setagaya-Ku) - Pancreatic endocrine neoplasm
Oman (Sultanate of Aziba) - Pancreatic endocrine tumor, non-functioning
Singapore (Singapore General Hospital) - Neuroendocrine tumor, grade 2

Case 2 - Diagnosis:

Pancreatic endocrine neoplasm ("islet cell tumor/neuroendocrine tumor")
 T-59000, M-81500

Case 2 - References:

Endocrine pancreatic tumors. *Scand J Surg* 2004; 93(4): p311-315. Llairmore TC and Moley JF.

Cytological diagnosis of endocrine tumors of the pancreas by endoscopic ultrasound-guided fine-needle aspiration biopsy. *Diagn Cytopathol* 2005; Apr;32(4): p204-10. Gu M; Ghafari S, Lin F and Ramzy I.

Neuroendocrine secretory protein-55 (NESP-55) expression discriminates pancreatic endocrine tumors and pheochromocytomas from gastrointestinal and pulmonary carcinoids. *J Surg Pathol* 2004; Oct;28(10): p1371-8. Srivastava A; Padilla O; et al.

New markers for pancreatic islets and islet cell tumors. *Pathol Int* 2002; Jul 52(7):425-432. Tomita T.

Prognostic factors in pancreatic endocrine neoplasms: an analysis of 136 cases with a proposal for low-grade and intermediate-grade groups. *J Clin Oncol* 2002; Jun 1; 20(11): p2633-42. Hochwald SN; Zee S, Conlon KC; Colleoni R; Louie O; Brennan MF; and Klimstra DS.

Case No. 3, Accession No. 30496

March 2011

Arcadia (ABC Laboratories) - Wilms tumor
Camarillo (St. John's Pleasant Valley Hospital) - Wilms tumor
Fontana (Kaiser Foundation Hospital) - Wilms tumor
Glendale - Wilms tumor
Hayward-Fremont - Wilms tumor
Long Beach - Wilms tumor
Oakland (Alameda County Medical Center) - Nephroblastoma
San Diego (Naval Medical Center, San Diego) - Wilms tumor
Santa Barbara - Wilms tumor
Woodland Hills (Southern California Permanente Medical Group) - Nephroblastoma
Arkansas (Associated Pathologist Laboratory) - Nephroblastoma, Wilms tumor
Colorado (McKee Medical Center) - Nephroblastoma
Florida (Monroe Regional Medical Center) - Wilms tumor
Florida (Naples Pathology Associates) - Wilms tumor
Georgia, Atlanta - Wilms tumor
Georgia, (Emory University) - Nephroblastoma, Wilms tumor
Illinois (Heartland Regional Medical Center) - Nephroblastoma
Illinois, Orland Park - Nephroblastoma
Kansas (Cytocheck Laboratory) - Nephroblastoma
Massachusetts (BWH- Pathology) - Wilms tumor
Massachusetts, Peabody - Mixed epithelial and stromal cell tumor, kidney
Massachusetts (University of Massachusetts Medical Center) - Wilms tumor
Michigan, Caledonia - Wilms tumor, right kidney
Minnesota (Fairview Ridges Hospital) - Nephroblastoma
Missouri (Missouri Delta Medical Center) - Wilms tumor (2)
Missouri (St. Luke's Hospital) - Wilms tumor
Nebraska (Creighton University Medical Center) - Wilms tumor
New Mexico (University of New Mexico) - Wilms tumor
New York (Erie County Medical Center) - Nephroblastoma
New York (Staten Island University Hospital) - Wilms tumor
New York (SUNY Downstate Medical Center Residents) - Wilms tumor
New York (SUNY Stonybrook University Hospital) - Treated Wilms tumor
New York (University of Buffalo Residents) - Nephroblastoma teratoid
New York (Westchester Medical Center) - Wilms, no anaplasia
North Carolina (North Carolina Baptist) - Wilms tumor
Ohio, Columbus - Wilms tumor
Ohio, Union Town - Wilms tumor
Ohio (University of Toledo Residents) - Wilms tumor with therapeutic effect
Pennsylvania (Conemaugh Valley Memorial Hospital) - Wilms tumor
Pennsylvania (Drexel University College of Medicine) - Wilms tumor, nephroblastoma
Pennsylvania (Magee Women's Hospital) - Wilms tumor, nephroblastoma
Pennsylvania (Pennsylvania Hospital) - Wilms tumor

Texas (Carl R. Darnall Army Medical Center) - Nephroblastoma
Texas, Crystal Beach - Wilms tumor
Texas, Lubbock - Wilms tumor
Texas (Scott & White Memorial Hospital) - Wilms tumor
Virginia, Falls Church - Wilms tumor
Washington (Seattle VAMC) - Nephroblastoma/Wilms consistent with stromal carcinoma
West Virginia (Greenbrier Valley Medical Center) - Nephroblastoma
Wisconsin (Medical Assessment & Consultation, S.C.) - Wilms tumor, nephroblastoma
Australia (Royal Prince Alfred Hospital) - Wilms tumor, nephroblastoma
Australia (St. Vincent's Hospital, Sydney) - Neuroblastoma with treatment effect
Australia (Sullivan Nicolaides Pathology) - Wilms tumor, nephroblastoma
Canada (Pasqua Hospital) - Wilms tumor
Canada (Saint-Antoine/Richeueu) - Nephroblastoma
Canada (University of Sherbrooke) - Wilms tumor
England (John Radcliffe Hospital) - Wilms tumor
Ireland (Kerry General Hospital) - Wilms tumor
Ireland (University Hospital, Galway) - Nephroblastoma
Japan (Asashi General Hospital) - Nephroblastoma
Japan (Setagaya-Ku) - Nephroblastoma, post-chemotherapy
Oman (Sultanate of Aziba) - Nephroblastoma
Singapore (Singapore General Hospital) - Nephroblastoma with post chemotherapy necrosis

Case 3 - Diagnosis:

Wilms tumor with chemotherapy effects, kidney
 T-71000, M-89603

Case 3 - References:

The pathology of Wilms' tumour (nephroblastoma): the International Society of Paediatric Oncology Approach. *J Clin Pathol* 2010; Feb;63(2): p102-9 Vujanic GM; Sandstedt B.

HER2/neu expression: a predictor for differentiation and survival in children with Wilms tumor. *Pathol Oncol Res* 2010; Mar;16(1): p61-7 Ragab SM; Samaka RM; Shams TM.

Nonviable tumor tissue should not upstage Wilms' tumor from stage I to stage II: a report from the SIOP 93-01 nephroblastoma trial and study. *Pediatr Dev Pathol* 2009; Mar-Apr;12(2): p111-5 Vujanic GM; Harms D; Bohoslavsky R; Leuschner I; de Kraker J; Sandstedt B.

The National Wilms Tumor Study: a 40 year perspective. *Lifetime Data Anal* 2007; Dec;13(4): p463-70. D'Angio GJ.

Case No. 4, Accession No. 31122

March 2011

Arcadia (ABC Laboratories) - Clear cell carcinoma
Camarillo (St. John's Pleasant Valley Hospital) - Papillary renal cell carcinoma
Fontana (Kaiser Foundation Hospital) - Collecting duct carcinoma
Glendale - Collecting duct carcinoma
Hayward-Fremont - Collecting duct carcinoma, kidney
Long Beach - Renal cell carcinoma, papillary type with clear cell features
Oakland (Alameda County Medical Center) - Renal cell carcinoma, low grade collecting duct type
San Diego (Naval Medical Center, San Diego) - Carcinoma of the collecting ducts of Bellini
Santa Barbara - Renal cell carcinoma
Woodland Hills (Southern California Permanente Medical Group) - Collecting duct renal cell carcinoma
Arkansas (Associated Pathologist Laboratory) - Renal cell carcinoma
Colorado (McKee Medical Center) - Collecting duct carcinoma

Florida (Monroe Regional Medical Center) - Collecting duct carcinoma
Florida (Naples Pathology Associates) - Collecting duct carcinoma
Georgia, Atlanta - Collecting duct carcinoma
Georgia, (Emory University) - Collecting duct carcinoma
Illinois (Heartland Regional Medical Center) - Collecting duct carcinoma
Illinois, Orland Park - Papillary renal cell carcinoma
Kansas (Cytocheck Laboratory) - Renal cell carcinoma
Massachusetts (BWH- Pathology) - Renal cell carcinoma, collecting duct carcinoma
Massachusetts, Peabody - Collecting duct carcinoma
Massachusetts (University of Massachusetts Medical Center) - Collecting duct carcinoma
Michigan, Caledonia - Adenocarcinoma, metastatic
Minnesota (Fairview Ridges Hospital) - Renal cell carcinoma, papillary
Missouri (Missouri Delta Medical Center) - Collecting duct cancer of Bellini (2)
Missouri (St. Luke's Hospital) - Medullary carcinoma or collecting duct
Nebraska (Creighton University Medical Center) - Renal cell carcinoma, papillary type
New Mexico (University of New Mexico) - Papillary renal cell carcinoma
New York (Erie County Medical Center) - Papillary renal cell carcinoma
New York (Staten Island University Hospital) - Papillary renal cell carcinoma
New York (SUNY Downstate Medical Center Residents) - Bellini duct carcinoma
New York (SUNY Stonybrook University Hospital) - Collecting duct carcinoma
New York (University of Buffalo Residents) - Collecting duct carcinoma
New York (Westchester Medical Center) - Papillary renal cell carcinoma
North Carolina (North Carolina Baptist) - Papillary renal cell carcinoma
Ohio, Columbus - Tubulocystic carcinoma of the kidney
Ohio, Union Town - Renal cell carcinoma, grade 4
Ohio (University of Toledo Residents) - Renal papillary carcinoma
Pennsylvania (Conemaugh Valley Memorial Hospital) - Collecting duct carcinoma
Pennsylvania (Drexel University College of Medicine) - Papillary renal cell carcinoma
Pennsylvania (Magee Women's Hospital) - Renal cell carcinoma
Pennsylvania (Pennsylvania Hospital) - Collecting duct carcinoma
Texas (Carl R. Darnall Army Medical Center) - Collecting duct carcinoma
Texas, Crystal Beach - Collecting duct carcinoma
Texas, Lubbock - Collecting duct carcinoma
Texas (Scott & White Memorial Hospital) - Collecting duct carcinoma
Virginia, Falls Church - Papillary renal cell carcinoma
Washington (Seattle VAMC) - Renal cell carcinoma consistent with ductal growth
West Virginia (Greenbrier Valley Medical Center) - Collecting tube carcinoma
Wisconsin (Medical Assessment & Consultation, S.C.) - Collecting duct carcinoma
Australia (Royal Prince Alfred Hospital) - Papillary renal cell carcinoma
Australia (St. Vincent's Hospital, Sydney) - Collecting duct carcinoma (7); Mucinous tubular and spindle cell carcinoma (3)
Australia (Sullivan Nicolaides Pathology) - Collecting duct carcinoma
Canada (Pasqua Hospital) - Collecting duct carcinoma
Canada (Saint-Antoine/Richeueu) - Collecting duct renal cell carcinoma
Canada (University of Sherbrooke) - Clear cell carcinoma
England (John Radcliffe Hospital) - Collecting duct carcinoma
Ireland (Kerry General Hospital) - Collecting duct carcinoma
Ireland (University Hospital, Galway) - Collecting duct carcinoma
Japan (Asahi General Hospital) - Carcinoma of collecting duct of Bellini
Japan (Setagaya-Ku) - Collecting duct carcinoma, kidney
Oman (Sultanate of Aziba) - Carcinoma of the collecting ducts of Bellini
Singapore (Singapore General Hospital) - Papillary renal cell carcinoma

Case 4 - Diagnosis:

Collecting duct carcinoma (of Bellini), kidney
 T-71000, M-83123

Case 4 - References:

- Collecting duct renal cell carcinoma: two different clinical stages, two different clinical outcomes. *Urol Int* 2008; 81(1): p116-8 Vazquez-Lavista LG; Uribe-Uribe N; Gabilondo-Navarro F.
- Cytological features of carcinoma of the collecting ducts of Bellini in voided urine cytology. *Diagn Cytopathol* 2009; Sep;37(9): p676-9 Ohsaki H; Hirakawa E; Kushida Y; Kadota K; Ishikawa M; Haba R.
- Collecting duct (Bellini duct) renal cell carcinoma: a nationwide survey in Japan.. *J Urol* 2006; Jul;176(1): p40-3; discussion 43 Tokuda N; Naito S; Matsuzaki O; Nagashima Y; Ozono S; Igarashi T.
- Collecting duct carcinoma of the kidney: an immunohistochemical evaluation of the use of antibodies for differential diagnosis. *Hum Pathol* 2008; Sep;39(9): p1350-9 Kobayashi N; Matsuzaki O; Shirai S; Aoki I; Yao M; Nagashima Y.
- Renal collecting (Bellini) duct carcinoma displays similar characteristics to upper tract urothelial cell carcinoma. *Urology* 2005; Jan;65(1): p49-54. Orsola A; Trias I; Raventos CX; Espanol I; Cecchini L; Orsola I.
- Low-grade renal collecting duct carcinoma. A case report with histochemical, immunohistochemical, and ultrastructural study. *Ann Diagn Pathol* 2005; Feb;9(1): p46-8 Farah R; Ben-Izhak O; Munichor M; Cohen H.
- Fine needle aspiration cytology of collecting duct carcinoma of the kidney: report of a case with distinctive features and differential diagnosis. *Acta Cytol* 2004; Nov-Dec;48(6): p843-8 Sarode VR; Islam S; Wooten D; Watumull LM; Molberg K; Ashfaq R.

Case No. 5, Accession No. 15833

March 2011

Arcadia (ABC Laboratories) - Adrenal cortical carcinoma
Camarillo (St. John's Pleasant Valley Hospital) - Paraganglioma
Fontana (Kaiser Foundation Hospital) - Paraganglioma
Glendale - Carcinoid
Hayward-Fremont - Renal cell carcinoma with oncocytic features
Long Beach - Malignant pheochromocytoma
Oakland (Alameda County Medical Center) - Neuroendocrine carcinoma
San Diego (Naval Medical Center, San Diego) - Paraganglioma
Santa Barbara - Paraganglioma
Woodland Hills (Southern California Permanente Medical Group) - Well-differentiated endocrine carcinoma
Arkansas (Associated Pathologist Laboratory) - Pheochromocytoma
Colorado (McKee Medical Center) - Chromophobe renal cell carcinoma
Florida (Monroe Regional Medical Center) - Carcinoid tumor
Florida (Naples Pathology Associates) - Adrenal carcinoma
Georgia, Atlanta - Oncocytic carcinoma
Georgia, (Emory University) - Extra adrenal sympathetic paraganglioma
Illinois (Heartland Regional Medical Center) - Neuroendocrine neoplasm, favor pheochromocytoma
Illinois, Orland Park - Paraganglioma
Kansas (Cytocheck Laboratory) - Oncocytic proliferation
Massachusetts (BWH- Pathology) - Adrenocortical carcinoma
Massachusetts, Peabody - Adenocarcinoma, retroperitoneal
Massachusetts (University of Massachusetts Medical Center) - Neuroendocrine tumor
Michigan, Caledonia - Endocrine carcinoma of small bowel
Minnesota (Fairview Ridges Hospital) - Pheochromocytoma
Missouri (Missouri Delta Medical Center) - Metastatic renal cell carcinoma
Missouri (St. Luke's Hospital) - Ulcerogenic neuroendocrine carcinoma
Nebraska (Creighton University Medical Center) - Pheochromocytoma
New Mexico (University of New Mexico) - Paraganglioma

New York (Erie County Medical Center) - Extra-adrenal paraganglioma
New York (Staten Island University Hospital) - Carcinoid tumor
New York (SUNY Downstate Medical Center Residents) - Paraganglioma
New York (SUNY Stonybrook University Hospital) - Gastrinoma
New York (University of Buffalo Residents) - Paraganglioma
New York (Westchester Medical Center) - Neuroendocrine carcinoma, oncocytic type
North Carolina (North Carolina Baptist) - Oncocytoma
Ohio, Columbus - Well-differentiated neuroendocrine carcinoma
Ohio, Union Town - Oncocytoma
Ohio (University of Toledo Residents) - Paraganglioma
Pennsylvania (Conemaugh Valley Memorial Hospital) - Neuroendocrine tumor
Pennsylvania (Drexel University College of Medicine) - Paraganglioma
Pennsylvania (Magee Women's Hospital) - Paraganglioma
Pennsylvania (Pennsylvania Hospital) - Neuroendocrine carcinoma, oncocytic
Texas (Carl R. Darnall Army Medical Center) - Neuroendocrine carcinoma, well-differentiated
Texas, Crystal Beach - Oncocytic carcinoma, metastatic
Texas, Lubbock - Neuroendocrine carcinoma
Texas (Scott & White Memorial Hospital) - Neuroendocrine carcinoma
Virginia, Falls Church - Neuroendocrine tumor, well-differentiated
Washington (Seattle VAMC) - Endocrine epithelial neoplasia, probably malignant
West Virginia (Greenbrier Valley Medical Center) - Chromophobe renal cell carcinoma
Wisconsin (Medical Assessment & Consultation, S.C.) - Paraganglioma
Australia (Royal Prince Alfred Hospital) - Carcinoid tumor
Australia (St. Vincent's Hospital, Sydney) - Neuroendocrine/oncocytic carcinoma
Australia (Sullivan Nicolaides Pathology) - Well-differentiated neuroendocrine carcinoma
Canada (Pasqua Hospital) - Neuroendocrine pheochromocytoma
Canada (Saint-Antoine/Richeueu) - Paraganglioma
Canada (University of Sherbrooke) - Neuroendocrine carcinoma vs. paraganglioma
England (John Radcliffe Hospital) - Pheochromocytoma
Ireland (Kerry General Hospital) - Endocrine tumor, pancreatic
Ireland (University Hospital, Galway) - Neuroendocrine carcinoma
Japan (Asashi General Hospital) - Paraganglioma
Japan (Setagaya-Ku) - Adrenal cortical carcinoma
Oman (Sultanate of Aziba) - Oncocytic neoplasm
Singapore (Singapore General Hospital) - Paraganglioma, malignant

Case 5 - Diagnosis:

Neuroendocrine tumor c/w carcinoid tumor, retroperitoneum
 T-Y4600, M-82401

Case reviewed by the AFIP and signed out by Dr. Franz Enzinger (1967)

Case 5 - References:

The spectrum of carcinoid tumours and carcinoid syndromes. *Ann Clin Biochem* 2003; Nov;40(Pt 6): p612-27.
 Lips CJ; Lentjes EG; Hoppener JW.

Prognostic indicators for carcinoid neuroendocrine tumors of the gastrointestinal tract. *J Surg Oncol* 2005; Mar 1;89(3): p151-60. Rorstad O.

Neuroendocrine tumors (carcinoid and neuroendocrine carcinoma) presenting at extra-appendiceal sites in childhood and adolescence. *Arch Pathol Lab Med* 2003; Sep;127(9): p1200-3. Broaddus RR; Herzog CE; Hicks MJ.

Primary neuroendocrine tumor (carcinoid) of the mesocolon. *Isr Med Assoc J* 2001; Apr;3(4): p288-9. Kimchi NA; Rivkin G; Wiener Y; Sandbank J; Halevy A.

Gastrointestinal neuroendocrine/neuroectodermal tumors. *Am J Clin Pathol* 2001; Jun;115 Suppl:S79-93.
Fenoglio-Preiser CM.

Case No. 6, Accession No. 31158

March 2011

Arcadia (ABC Laboratories) - High grade urothelial carcinoma
Camarillo (St. John's Pleasant Valley Hospital) - High grade transitional cell carcinoma
Fontana (Kaiser Foundation Hospital) - Transitional cell carcinoma
Glendale - High grade urothelial carcinoma
Hayward-Fremont - Urothelial carcinoma, high grade
Long Beach - High grade transitional carcinoma
Oakland (Alameda County Medical Center) - High grade urothelial carcinoma, sarcomatoid type
San Diego (Naval Medical Center, San Diego) - Urothelial carcinoma sarcomatoid variant
Santa Barbara - High grade transitional cell carcinoma
Woodland Hills (Southern California Permanente Medical Group) - High grade invasive urothelial carcinoma
Arkansas (Associated Pathologist Laboratory) - Urothelial carcinoma, high grade
Colorado (McKee Medical Center) - Sarcomatoid carcinoma
Florida (Monroe Regional Medical Center) - High grade urothelial carcinoma
Florida (Naples Pathology Associates) - Urothelial cell carcinoma, high grade
Georgia, Atlanta - Invasive urothelial carcinoma
Georgia, (Emory University) - Invasive urothelial carcinoma, poorly differentiated with sarcomatoid features
Illinois (Heartland Regional Medical Center) - High grade urothelial carcinoma
Illinois, Orland Park - Invasive urothelial carcinoma
Kansas (Cytocheck Laboratory) - Urothelial carcinoma, high grade
Massachusetts (BWH- Pathology) - Urothelial carcinoma, invasive
Massachusetts, Peabody - Transitional cell carcinoma, bladder
Massachusetts (University of Massachusetts Medical Center) - Urothelial cell carcinoma, high grade
Michigan, Caledonia - Sarcomatoid urothelial carcinoma, bladder
Minnesota (Fairview Ridges Hospital) - Urothelial carcinoma, high grade, with sarcomatoid features
Missouri (Missouri Delta Medical Center) - Invasive cancer into muscularis propria urothelial carcinoma (1); High grade infiltrating urothelial carcinoma (1)
Missouri (St. Luke's Hospital) - Carcinosarcoma
Nebraska (Creighton University Medical Center) - Invasive high grade urothelial carcinoma
New Mexico (University of New Mexico) - High grade urothelial carcinoma
New York (Erie County Medical Center) - Urothelial carcinoma with sarcomatoid features
New York (Staten Island University Hospital) - Invasive urothelial carcinoma, high grade
New York (SUNY Downstate Medical Center Residents) - Urothelial carcinoma, high grade
New York (SUNY Stonybrook University Hospital) - Sarcomatoid carcinoma of the bladder
New York (University of Buffalo Residents) - High grade urothelial carcinoma with trophoblastic differentiation
New York (Westchester Medical Center) - Multifocal high grade transitional cell carcinoma, invasive
North Carolina (North Carolina Baptist) - Invasive high-grade urothelial carcinoma
Ohio, Columbus - High grade invasive urothelial carcinoma
Ohio, Union Town - Squamous cell carcinoma
Ohio (University of Toledo Residents) - High grade invasive urothelial carcinoma with squamous differentiation
Pennsylvania (Conemaugh Valley Memorial Hospital) - Urothelial carcinoma, high grade
Pennsylvania (Drexel University College of Medicine) - Invasive urothelial carcinoma, high grade
Pennsylvania (Magee Women's Hospital) - High grade urothelial carcinoma consistent with sarcomatoid and micropapillary features
Pennsylvania (Pennsylvania Hospital) - Urothelial carcinoma, sarcomatoid variant
Texas (Carl R. Darnall Army Medical Center) - Urothelial carcinoma, high grade
Texas, Crystal Beach - Transitional cell carcinoma, high grade
Texas, Lubbock - High grade urothelial carcinoma
Texas (Scott & White Memorial Hospital) - High grade urothelial carcinoma
Virginia, Falls Church - High grade urothelial carcinoma

Washington (Seattle VAMC) - Malignant neoplasm consistent with carcinoma and sarcoma growth patterns
West Virginia (Greenbrier Valley Medical Center) - High grade urothelial infiltrative carcinoma
Wisconsin (Medical Assessment & Consultation, S.C.) - Urothelial carcinoma, sarcomatoid type
Australia (Royal Prince Alfred Hospital) - High grade urothelial carcinoma with sarcomatoid differentiation
Australia (St. Vincent's Hospital, Sydney) - High grade transitional cell carcinoma
Australia (Sullivan Nicolaides Pathology) - High grade urothelial carcinoma with focal micropapillary architecture
Canada (Pasqua Hospital) - Urothelial carcinoma
Canada (Saint-Antoine/Richeueu) - High grade urothelial carcinoma
Canada (University of Sherbrooke) - Transitional invasive carcinoma with sarcomatoid features
England (John Radcliffe Hospital) - Sarcomatoid transitional cell carcinoma
Ireland (Kerry General Hospital) - Transitional cell carcinoma
Ireland (University Hospital, Galway) - Urothelial carcinoma with sarcomatoid and glandular features
Japan (Asahi General Hospital) - Giant cell carcinoma
Japan (Setagaya-Ku) - Transitional cell carcinoma
Oman (Sultanate of Aziba) - High grade infiltrating urothelial carcinoma, sarcomatoid variant
Singapore (Singapore General Hospital) - High grade infiltrating urothelial carcinoma with sarcomatoid features

Case 6 - Diagnosis:

High grade urothelial carcinoma, urinary bladder
 T-74000, M-81203

Case 6 - References:

Significance of stromal reaction patterns in invasive urothelial carcinoma. *Am J Clin Pathol* 2005; Jun;123(6): p851-7. Samaratunga H; Fairweather P; Purdie D.
 Papillary urothelial bladder carcinoma associated with osteoclast-like giant cells. *Int Urol Nephrol* 2005;37(1): p61-4. Kruger S; Johannisson R; Kausch I; Feller AC.
 Ki-67 index enhances the prognostic accuracy of the urothelial superficial bladder carcinoma risk group classification. *Int J Cancer* 2003; Jun 10;105(2): p267-72. Santos L; Amaro T; Costa C; Pereira S; Bento MJ; Lopes P; Oliveira J; Criado B; Lopes C.
 Divergent differentiation in urothelial carcinoma and other bladder cancer subtypes with selected mimics. *Histopathology* 2009; Jun;54(7): p885-900. Shanks JH; Iczkowski KA.
 Behavior of urothelial carcinoma with respect to anatomical location. *J Urol* 2007; May;177(5): p1715-20. Catto JW; Yates DR; Rehman I; Azzouzi AR; Patterson J; Sibony M; Cussenot O; Hamdy FC.
 Histologic variants of urothelial carcinoma: differential diagnosis and clinical implications. *Hum Pathol* 2006; Nov;37(11): p1371-88. Lopez-Beltran A; Cheng L.
 Polypoid/papillary cystitis: a series of 41 cases misdiagnosed as papillary urothelial neoplasia. *Am J Surg Pathol* 2008; May;32(5): p758-64. Lane Z; Epstein JI.

Case No. 7, Accession No. 31219

March 2011

Arcadia (ABC Laboratories) - Carcinoid tumor
Camarillo (St. John's Pleasant Valley Hospital) - Neuroendocrine carcinoma
Fontana (Kaiser Foundation Hospital) - Desmoplastic small round cell tumor
Glendale - Desmoplastic small round cell tumor
Hayward-Fremont - Carcinoid, variant desmoplastic round cell tumor
Long Beach - Desmoplastic small round, blue cell tumor, NOS
Oakland (Alameda County Medical Center) - Desmoplastic small round cell tumor

San Diego (Naval Medical Center, San Diego) - Desmoplastic small round cell tumor
Santa Barbara - Primitive neuroectodermal tumor
Woodland Hills (Southern California Permanente Medical Group) - Desmoplastic small round cell tumor
Arkansas (Associated Pathologist Laboratory) - Desmoplastic small round cell tumor
Colorado (McKee Medical Center) - Desmoplastic small round blue cell tumor
Florida (Monroe Regional Medical Center) - PNET
Florida (Naples Pathology Associates) - Desmoplastic small round cell tumor
Georgia, Atlanta - Desmoplastic small cell tumor
Georgia, (Emory University) - Desmoplastic small round cell tumor
Illinois (Heartland Regional Medical Center) - Desmoplastic small round cell tumor
Illinois, Orland Park - PNET
Kansas (Cytocheck Laboratory) - Sarcoma
Massachusetts (BWH- Pathology) - Desmoplastic small round cell tumor
Massachusetts, Peabody - Desmoplastic small cell tumor, abdomen
Massachusetts (University of Massachusetts Medical Center) - Desmoplastic small round cell tumor
Michigan, Caledonia - Intra-abdominal desmoplastic small round cell tumor
Minnesota (Fairview Ridges Hospital) - Desmoplastic small round cell tumor
Missouri (Missouri Delta Medical Center) - Intra-abdominal small round cell tumor (2)
Missouri (St. Luke's Hospital) - Intra-abdominal desmoplastic small cell tumor/ or Ewings
Nebraska (Creighton University Medical Center) - Desmoplastic small round cell tumor
New Mexico (University of New Mexico) - Synovial sarcoma
New York (Erie County Medical Center) - PNET/ES
New York (Staten Island University Hospital) - Desmoplastic small round cell tumor (DSRCT)
New York (SUNY Downstate Medical Center Residents) - Desmoplastic small round cell tumor
New York (SUNY Stonybrook University Hospital) - Desmoplastic small round cell tumor
New York (University of Buffalo Residents) - Desmoplastic small round cell tumor
New York (Westchester Medical Center) - PNET/Ewings
North Carolina (North Carolina Baptist) - Desmoplastic small round cell tumor vs. monophasic synovial sarcoma
Ohio, Columbus - Favor desmoplastic small round blue cell tumor
Ohio, Union Town - Ewing sarcoma
Ohio (University of Toledo Residents) - Desmoplastic small round cell tumor
Pennsylvania (Conemaugh Valley Memorial Hospital) - Ewings sarcoma
Pennsylvania (Drexel University College of Medicine) - Ewings sarcoma/PNET
Pennsylvania (Magee Women's Hospital) - Desmoplastic small round cell tumor
Pennsylvania (Pennsylvania Hospital) - Desmoplastic small round cell tumor
Texas (Carl R. Darnall Army Medical Center) - Desmoplastic small round cell tumor
Texas, Crystal Beach - Peripheral primitive neuroectodermal tumor
Texas, Lubbock - Small cell desmoplastic tumor
Texas (Scott & White Memorial Hospital) - Desmoplastic small round cell tumor
Virginia, Falls Church - Intra-abdominal desmoplastic small blue cell tumor
Washington (Seattle VAMC) - Desmoplastic small round blue cell tumor
West Virginia (Greenbrier Valley Medical Center) - Primitive neuroectodermal tumor (PNET)
Wisconsin (Medical Assessment & Consultation, S.C.) - Desmoplastic small round cell tumor
Australia (Royal Prince Alfred Hospital) - Desmoplastic small round cell tumor
Australia (St. Vincent's Hospital, Sydney) - Desmoplastic small round cell tumor
Australia (Sullivan Nicolaides Pathology) - Desmoplastic small round cell tumor
Canada (Pasqua Hospital) - Desmoplastic small round cell tumor
Canada (Saint-Antoine/Richeueu) - Intra-abdominal desmoplastic small round blue cell tumor
Canada (University of Sherbrooke) - PNET
England (John Radcliffe Hospital) - Desmoplastic small round cell tumor
Ireland (Kerry General Hospital) - Intra-abdominal desmoplastic small round cell tumor
Ireland (University Hospital, Galway) - Desmoplastic small round cell tumor
Japan (Asashi General Hospital) - Desmoplastic small round cell tumor
Japan (Setagaya-Ku) - Desmoplastic small round cell tumor
Oman (Sultanate of Aziba) - Desmoplastic small round cell tumor
Singapore (Singapore General Hospital) - Desmoplastic small round cell tumor

Case 7 - Diagnosis:

Desmoplastic small round cell tumor, intra-abdominal
T-Y4500, M-88211

Case 7 - References:

Desmoplastic small round cell tumors: cytologic, histologic, and immunohistochemical features. *Arch Pathol Lab Med* 2006; May;130(5): p728-32. Chang F.

Desmoplastic small round cell tumor of the kidney mimicking Wilms tumor: a case report and review of the literature. *Appl Immunohistochem Mol Morphol* 2009; Dec;17(6): p557-62 da Silva RC; Medeiros Filho P; Chioato L; Silva TR; Ribeiro SM; Bacchi CE.

Cytology of desmoplastic small round-cell tumor: comparison of pre- and post-chemotherapy fine-needle aspiration biopsies. *Cancer* 2007; Feb 25;111(1): p41-6 Presley AE; Kong CS; Rowe DM; Atkins KA.

Desmoplastic small round cell tumor: a clinical, pathological, and immunohistochemical study of 18 Chinese cases. *Int J Surg Pathol* 2008; Jul;16(3): p257-62 Liping Cao; Jun Ni; Risheng Que; Zhengrong Wu; Zhenya Song.

Desmoplastic small round cell tumor: using FISH as an ancillary technique to support cytologic diagnosis in an unusual case. *Diagn Cytopathol* 2007; Aug;35(8): p516-20 Waugh MS; Dash RC; Turner KC; Dodd LG.

Sister Mary Joseph's nodule as presenting sign of a desmoplastic small round cell tumor. *Pediatr Blood Cancer* 2008; Feb;50(2): p388-90 Doros L; Kaste SC; Rodriguez-Galindo C.

Case No. 8, Accession No. 31041

March 2011

Arcadia (ABC Laboratories) - Glioblastoma multiforme
Camarillo (St. John's Pleasant Valley Hospital) - Gliosarcoma
Fontana (Kaiser Foundation Hospital) - Gliosarcoma
Glendale - Glioblastoma multiforme
Hayward-Fremont - Gliosarcoma
Long Beach - Malignant meningioma
Oakland (Alameda County Medical Center) - Gliosarcoma
San Diego (Naval Medical Center, San Diego) - Gliosarcoma
Santa Barbara - Metastatic small cell carcinoma
Woodland Hills (Southern California Permanente Medical Group) - Glioblastoma
Arkansas (Associated Pathologist Laboratory) - Glioblastoma
Colorado (McKee Medical Center) - Glioblastoma, multiforme
Florida (Monroe Regional Medical Center) - Gliosarcoma
Florida (Naples Pathology Associates) - Glioblastoma, multiforme
Georgia, Atlanta - Gliosarcoma
Georgia, (Emory University) - Gliosarcoma
Illinois (Heartland Regional Medical Center) - Glioblastoma, multiforme
Illinois, Orland Park - Glioblastoma, multiforme
Kansas (Cytocheck Laboratory) - Lymphoma
Massachusetts (BWH- Pathology) - Rhabdoid meningioma
Massachusetts, Peabody - Glioblastoma
Massachusetts (University of Massachusetts Medical Center) - Gliosarcoma
Michigan, Caledonia - Anaplastic ependymoma, brain
Minnesota (Fairview Ridges Hospital) - Gliosarcoma
Missouri (Missouri Delta Medical Center) - Gliosarcoma (2)
Missouri (St. Luke's Hospital) - Gliosarcoma
Nebraska (Creighton University Medical Center) - Glioblastoma multiforme

New Mexico (University of New Mexico) - Glioblastoma multiforme
New York (Erie County Medical Center) - Gliosarcoma
New York (Staten Island University Hospital) - Glioblastoma multiforme
New York (SUNY Downstate Medical Center Residents) - Gliosarcoma
New York (SUNY Stonybrook University Hospital) - Anaplastic oligodendroglioma
New York (University of Buffalo Residents) - Glioblastoma
New York (Westchester Medical Center) - Gliosarcoma
North Carolina (North Carolina Baptist) - High grade malignant neoplasm
Ohio, Columbus - Glioblastoma, multiforme
Ohio, Union Town - Hemangiopericytoma
Ohio (University of Toledo Residents) - Glioblastoma
Pennsylvania (Conemaugh Valley Memorial Hospital) - Glioblastoma, multiforme
Pennsylvania (Drexel University College of Medicine) - Anaplastic meningioma
Pennsylvania (Magee Women's Hospital) - Gliosarcoma (GBM)
Pennsylvania (Pennsylvania Hospital) - Gliosarcoma
Texas (Carl R. Darnall Army Medical Center) - Glioblastoma multiforme
Texas, Crystal Beach - Glioma
Texas, Lubbock - Glioblastoma multiforme
Texas (Scott & White Memorial Hospital) - Gliosarcoma
Virginia, Falls Church - Glioblastoma multiforme
Washington (Seattle VAMC) - Hemangiopericytoma
West Virginia (Greenbrier Valley Medical Center) - Anaplastic astrocytoma
Wisconsin (Medical Assessment & Consultation, S.C.) - Gliosarcoma (WHO Grade IV, glioblastoma, multiforme)
Australia (Royal Prince Alfred Hospital) - Gliosarcoma vs. malignant solitary fibrous tumor vs. poorly differentiated metastasis
Australia (St. Vincent's Hospital, Sydney) - Gliosarcoma
Australia (Sullivan Nicolaides Pathology) - Gliosarcoma
Canada (Pasqua Hospital) - Glioblastoma
Canada (Saint-Antoine/Richeueu) - Gliosarcoma
England (John Radcliffe Hospital) - Glioblastoma multiforme
Ireland (Kerry General Hospital) - Glioblastoma multiforme
Ireland (University Hospital, Galway) - Anaplastic astrocytoma vs. gliosarcoma
Japan (Asashi General Hospital) - Gliosarcoma
Japan (Setagaya-Ku) - Pleomorphic xanthoastrocytoma
Oman (Sultanate of Aziba) - Glioblastoma/gliosarcoma
Singapore (Singapore General Hospital) - Gliosarcoma/glioblastoma

Case 8 - Diagnosis:

Glioblastoma multiforme, brain
 T-Y4500, M-88211

Case 8 - References:

Current data and strategy in glioblastoma multiforme. *J Med Life* 2009; Oct-Dec;2(4): p386-93 Iacob G; Dinca EB.

Glioblastoma multiforme: a review of where we have been and where we are going. *Expert Opin Investig Drugs* 2009; Aug;18(8): p1061-83 Adamson C; Kanu OO; Mehta AI; Di C; Lin N; Mattox AK; Bigner DD.

T-cell apoptosis in human glioblastoma multiforme: implications for immunotherapy. *J Neuroimmunol* 2006; Jun;175(1-2): p59-68 Walker DG; Chuah T; Rist MJ; Pender MP.

Fascin expression in 90 patients with glioblastoma multiforme. *Ann Diagn Pathol* 2005; Dec;9(6): p307-11 Roma AA; Prayson RA.

Survival trends in elderly patients with glioblastoma multiforme: resective surgery, radiation, and chemotherapy. *Surg Neurol* 2004; Sep;62(3): p207-13; discussion 214-5 Patwardhan RV; Shorter C; Willis BK; Reddy P; Smith D; Caldito GC; Nanda A.

Leptomeningeal and ependymal invasion by glioblastoma multiforme. *Neurology* 2004; Aug 10;63(3): pE8 Begemann M; Tsiouris AJ; Malkin MG.

Prognostic factors in glioblastoma multiforme. 10 years experience of a single institution. *Strahlenther Onkol* 2001; Jun;177(6): p283-90 Hulshof MC; Koot RW; Schimmel EC; Dekker F; Bosch DA; Gonzalez D.

Case No. 9, Accession No. 31042

March 2011

Arcadia (ABC Laboratories) - Pleomorphic adenoma

Camarillo (St. John's Pleasant Valley Hospital) - Pleomorphic adenoma

Fontana (Kaiser Foundation Hospital) - Pleomorphic adenoma

Glendale - Salivary duct carcinoma

Hayward-Fremont - Pleomorphic adenoma with atypical features

Long Beach - Adenoid cystic carcinoma

Oakland (Alameda County Medical Center) - Pleomorphic adenoma

San Diego (Naval Medical Center , San Diego) - Pleomorphic adenoma

Santa Barbara - Pleomorphic adenoma

Woodland Hills (Southern California Permanente Medical Group) - Pleomorphic adenoma

Arkansas (Associated Pathologist Laboratory) - Canalicular adenoma

Colorado (McKee Medical Center) - Pleomorphic adenoma (benign mixed tumor)

Florida (Monroe Regional Medical Center) - Canalicular adenoma

Florida (Naples Pathology Associates) - Carcinoma ex-pleomorphic adenoma

Georgia, Atlanta - Pleomorphic adenoma

Georgia, (Emory University) - Pleomorphic adenoma

Illinois (Heartland Regional Medical Center) - Pleomorphic adenoma

Illinois , Orland Park - Pleomorphic adenoma

Kansas (Cytocheck Laboratory) - Adenosquamous carcinoma

Massachusetts (BWH- Pathology) - Pleomorphic adenoma

Massachusetts, Peabody - Acinic cell carcinoma, parotid

Massachusetts (University of Massachusetts Medical Center) - Pleomorphic adenoma

Michigan, Caledonia - Pleomorphic adenoma, right parotid gland

Minnesota (Fairview Ridges Hospital) - Pleomorphic adenoma

Missouri (Missouri Delta Medical Center) - Pleomorphic adenoma (1); Benign mixed tumor, pleomorphic adenoma (1)

Missouri (St. Luke's Hospital) - Benign mixed tumor

Nebraska (Creighton University Medical Center) - Mixed tumor of salivary gland

New Mexico (University of New Mexico) - Pleomorphic adenoma

New York (Erie County Medical Center) - Mixed tumor, recurrent

New York (Staten Island University Hospital) - Adenoid cystic carcinoma

New York (SUNY Downstate Medical Center Residents) - Pleomorphic adenoma

New York (SUNY Stonybrook University Hospital) - Pleomorphic adenoma

New York (University of Buffalo Residents) - Adenoid cystic carcinoma

New York (Westchester Medical Center) - Pleomorphic adenoma

North Carolina (North Carolina Baptist) - Benign mixed tumor

Ohio, Columbus - Pleomorphic adenoma

Ohio, Union Town - Pleomorphic adenoma

Ohio (University of Toledo Residents) - Pleomorphic adenoma, parotid gland

Pennsylvania (Conemaugh Valley Memorial Hospital) - Pleomorphic adenoma

Pennsylvania (Drexel University College of Medicine) - Pleomorphic adenoma

Pennsylvania (Magee Women's Hospital) - Pleomorphic adenoma

Pennsylvania (Pennsylvania Hospital) - Pleomorphic adenoma

Texas (Carl R. Darnall Army Medical Center) - Pleomorphic adenoma
Texas, Crystal Beach - Warthin tumor, variant
Texas, Lubbock - Cellular pleomorphic adenoma
Texas (Scott & White Memorial Hospital) - Pleomorphic adenoma
Virginia, Falls Church - Pleomorphic adenoma
Washington (Seattle VAMC) - Pleomorphic adenoma
West Virginia (Greenbrier Valley Medical Center) - Pleomorphic adenoma
Wisconsin (Medical Assessment & Consultation, S.C.) - Salivary gland adenoma, favor canalicular adenoma
Australia (Royal Prince Alfred Hospital) - Pleomorphic adenoma
Australia (St. Vincent's Hospital, Sydney) - Pleomorphic adenoma, parotid
Australia (Sullivan Nicolaides Pathology) - Pleomorphic adenoma
Canada (Pasqua Hospital) - Cellular pleomorphic adenoma
Canada (Saint-Antoine/Richeueu) - Pleomorphic adenoma
Canada (University of Sherbrooke) - Pleomorphic adenoma
England (John Radcliffe Hospital) - Pleomorphic adenoma
Ireland (Kerry General Hospital) - Pleomorphic salivary adenoma
Ireland (University Hospital, Galway) - Pleomorphic adenoma
Japan (Asashi General Hospital) - Pleomorphic adenoma
Japan (Setagaya-Ku) - Carcinoma ex-pleomorphic adenoma
Oman (Sultanate of Aziba) - Adenoid cystic carcinoma
Singapore (Singapore General Hospital) - Canalicular adenoma

Case 9 - Diagnosis:

Pleomorphic adenoma (benign mixed tumor), parotid
 T-55100, M-89400

Case 9 - References:

Pleomorphic adenoma of the parotid gland: histopathologic analysis of the capsular characteristics of 218 tumors. *Head Neck* 2007; Aug;29(8): p751-7. Zbaren P; Stauffer E.
 Histologically benign pleomorphic adenoma of parotid with subcutaneous metastases. *Otolaryngol Head Neck Surg* 2005; Dec;133(6): p985-6. Muthusami JC; Jesudason MR; Jesudason SR; Subashini J; Ramakrishna B.
 Pleomorphic adenoma with extensive lipometaplasia: report of three cases. *Am J Surg Pathol* 2005; Oct;29(10): p1389-93 Haskell HD; Butt KM; Woo SB.
 Recurrent pleomorphic adenoma of the parotid gland. *Otolaryngol Head Neck Surg* 2005; Sep;133(3): p319-22 Leonetti JP; Marzo SJ; Petruzzelli GJ; Herr B.
 Spontaneous infarction of a pleomorphic adenoma in parotid gland: diagnostic problems and review. *Diagn Cytopathol* 2005; Jun;32(6): p367-9 Behzatoglu K; Bahadir B; Huq GE; Kaplan HH.
 Pleomorphic adenoma of the parotid gland metastasizing to the scapular region: a case report. *Acta Cytol* 2008; Nov-Dec;52(6): p733-5 Ghosh A; Arundhati; Asthana AK.

Case No. 10, Accession No. 30618

March 2011

Arcadia (ABC Laboratories) - Granulosa cell tumor
Camarillo (St. John's Pleasant Valley Hospital) - Granulosa cell tumor
Fontana (Kaiser Foundation Hospital) - Granulosa cell tumor
Glendale - Adult granulosa cell tumor
Hayward-Fremont - Granulosa cell tumor
Long Beach - Granulosa cell tumor

Oakland (Alameda County Medical Center) - Granulosa cell tumor, adult type
San Diego (Naval Medical Center, San Diego) - Adult granulosa cell tumor
Santa Barbara - Adult granulosa cell tumor
Woodland Hills (Southern California Permanente Medical Group) - Granulosa cell tumor
Arkansas (Associated Pathologist Laboratory) - Granulosa cell tumor
Colorado (McKee Medical Center) - Granulosa cell tumor
Florida (Monroe Regional Medical Center) - Granulosa cell tumor
Florida (Naples Pathology Associates) - Granulosa cell tumor
Georgia, Atlanta - Adult granulosa cell tumor
Georgia, (Emory University) - Granulosa cell tumor
Illinois (Heartland Regional Medical Center) - Granulosa cell tumor
Illinois, Orland Park - Granulosa cell tumor
Kansas (Cytocheck Laboratory) - Granulosa cell tumor
Massachusetts (BWH- Pathology) - Granulosa cell tumor-adult
Massachusetts, Peabody - Granulosa cell tumor, ovary
Massachusetts (University of Massachusetts Medical Center) - Adult granulosa cell tumor
Michigan, Caledonia - Granulosa cell tumor of ovary, adult-type
Minnesota (Fairview Ridges Hospital) - Adult granulosa cell tumor
Missouri (Missouri Delta Medical Center) - Granulosa cell tumor (2)
Missouri (St. Luke's Hospital) - Granulosa cell tumor
Nebraska (Creighton University Medical Center) - Granulosa cell tumor
New Mexico (University of New Mexico) - Granulosa cell tumor
New York (Erie County Medical Center) - Adult granulosa cell tumor
New York (Staten Island University Hospital) - Granulosa cell tumor, adult
New York (SUNY Downstate Medical Center Residents) - Adult granulosa cell tumor
New York (SUNY Stonybrook University Hospital) - Adult granulosa cell tumor
New York (University of Buffalo Residents) - Adult granulosa cell tumor
New York (Westchester Medical Center) - Granulosa cell tumor
North Carolina (North Carolina Baptist) - Granulosa cell tumor
Ohio, Columbus - Granulosa cell tumor
Ohio, Union Town - Granulosa cell tumor
Ohio (University of Toledo Residents) - Granulosa cell tumor, ovary
Pennsylvania (Conemaugh Valley Memorial Hospital) - Adult type granulosa cell tumor
Pennsylvania (Drexel University College of Medicine) - Adult granulosa cell tumor
Pennsylvania (Magee Women's Hospital) - Granulosa cell tumor
Pennsylvania (Pennsylvania Hospital) - Granulosa cell tumor
Texas (Carl R. Darnall Army Medical Center) - Adult granulosa cell tumor
Texas, Crystal Beach - Granulosa cell tumor
Texas, Lubbock - Granulosa cell tumor
Texas (Scott & White Memorial Hospital) - Granulosa cell tumor
Virginia, Falls Church - Granulosa cell tumor
Washington (Seattle VAMC) - Granulosa cell tumor, adult type
West Virginia (Greenbrier Valley Medical Center) - Adult granulosa cell carcinoma
Wisconsin (Medical Assessment & Consultation, S.C.) - Ovarian granulosa cell tumor, adult type
Australia (Royal Prince Alfred Hospital) - Granulosa cell tumor
Australia (St. Vincent's Hospital, Sydney) - Granulosa cell tumor ovary, adult type
Australia (Sullivan Nicolaides Pathology) - Adult granulosa cell tumor
Canada (Pasqua Hospital) - Granular cell tumor
Canada (Saint-Antoine/Richeueu) - Adult granulosa cell tumor
Canada (University of Sherbrooke) - Granulosa cell tumor, adult type
England (John Radcliffe Hospital) - Adult granulosa cell tumor
Ireland (Kerry General Hospital) - Granulosa cell tumor
Ireland (University Hospital, Galway) - Adult granulosa cell tumor
Japan (Asashi General Hospital) - Granulosa cell tumor
Japan (Setagaya-Ku) - Granular cell tumor, ovary
Oman (Sultanate of Aziba) - Granulosa cell tumor
Singapore (Singapore General Hospital) - Adult granulosa cell tumor

Case 10 - Diagnosis:

Adult granulosa cell tumor, ovary
T-87000, M-86201

Case 10 - References:

Clinical and pathological predictive factors in women with adult-type granulosa cell tumor of the ovary. *Int J Gynecol Pathol* 2007; Apr;26(2): p154-9. Villella J; Herrmann FR; Kaul S; Lele S; Marchetti D; Natiella J; Odunsi K; Mhawech-Fauceglia P.

Adult granulosa cell tumor of the ovary: fine-needle-aspiration cytology of 10 cases and review of literature. *Diagn Cytopathol* 2008; May;36(5): p297-302. Ali S; Gattuso P; Howard A; Mosunjac MB; Siddiqui MT.

Granulosa cell tumor of the ovary: cytologic findings. *Acta Cytol* 2010; Jul-Aug;54(4): p551-9. Kavuri S; Kulkarni R; Reid-Nicholson M.

CD56 expression in ovarian granulosa cell tumors, and its diagnostic utility and pitfalls. *Oncol* 2007; Oct;107(1): p30-8. Ohishi Y; Kaku T; Oya M; Kobayashi H; Wake N; Tsuneyoshi M.

Prognostic value of mitotic counts and Ki-67 immunoreactivity in adult-type granulosa cell tumour of the ovary. *J Clin Pathol* 2008; Aug;61(8): p914-9. Leuvenink EM; Brennan BA; Crook ML; Doherty DA; Hammond IG; Ruba S; Stewart CJ.