



CALIFORNIA
TUMOR TISSUE REGISTRY

“GI & HEPATOBILIARY PATHOLOGY

Minutes – Subscription A

November, 2008



SUGGESTED READING (General Topics from Recent Literature):

- Prognostic Factors in Lymph Node Metastases of Prostatic Cancer Patients. The Size of Metastases But Not Extranodal Extension Independently Predicts Survival. Fleischmann A, Schobinger S, et al. *Histopathol* 2008; 53:468-475.
- Evaluation as a Colon Cancer Quality Measure. A National Hospital Report Card. Bilimoria KY, Bentrem DJ, et al. *J Natl Cancer Inst* 2008; 100:1310-1317.
- Validation of Intraoperative Risk Assessment on Frozen Section for Surgical Management of Endometrial Carcinoma. Egle D, Grisseman B, et al. *Gynecol Oncol* 2008; 110:286-292.
- Collecting Duct Carcinoma of the Kidney. An Immunohistochemical Evaluation of the Use of Antibodies for Differential Diagnosis. Kobayashi N, Matsuzaki O, et al. *Hum Pathol* 2008; 39:1350-1359.
- The Prognostic Impact of Dedifferentiation in Retroperitoneal Liposarcoma. A Series of Surgically Treated Patients at a Single Institution. Mussi C, Collini P, et al. *Cancer* 2008; 113:1657-1665.

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FILE DIAGNOSES

CTTR Subscription A

November 2008

Case 1:

Borderline mucinous cystic neoplasm, pancreas
T-59000, M-84703

Case 2:

Solid pseudopapillary neoplasm, pancreas
T-59000, M-80001

Case 3:

Hepatocellular carcinoma, liver
T-56000, M-81703

Case 4:

Cholangiocarcinoma, liver
T-56000, M-81603

Case 5:

Solitary fibrous tumor, colon
T-67000, M-90510

Case 6:

Malignant gastrointestinal stromal tumor (GIST), stomach
T-63000, M-88903

Case 7:

Mucinous (colloid) adenocarcinoma, colon
T-67000, M-84803

Case 8:

Leiomyosarcoma, cecum
T-67100, M-88903

Case 9:

High grade neuroendocrine carcinoma, splenic flexure
T-67500, M-80103

Case 10:

Undifferentiated small cell malignancy, probably neuroendocrine, abdominal cavity
T-Y4500, M-82403

Fontana (Kaiser Foundation Hospital) - Borderline mucinous neoplasm
Glendale - Mucinous cystic tumor, borderline
Long Beach (Long Beach VA) - Mucinous cystic tumor, borderline (1); Mucinous cystic tumor with moderate dysplasia (4)
Oakland - Cystadenoma (mucinous) consistent with in-situ atypia
Oakland (Alameda County Medical Center) - Mucinous cystic tumor
Oakland (Kaiser Permanente) - Mucinous cystic tumor, borderline (9)
Orange (Orange County Pathology) - Mucinous cystadenoma
Oxnard (St. John's Regional Medical Center) - Mucinous cystadenoma
Pleasant Hill - Mucinous cystadenoma, borderline
San Diego (Naval Medical Center) - Mucinous cystic neoplasm
San Diego (Scripps Clinic) - Mucinous cystic neoplasm with moderate dysplasia
Colorado (Fort Collins) - Serous cystadenoma
Florida (Naples Pathology Associates) - Mucinous cystadenoma
Georgia, Decatur - Mucinous cystic neoplasm with high grade dysplasia
Illinois (Burr Ridge) - Mucinous cystadenoma
Illinois, Chicago - Mucinous cystic neoplasm
Illinois (Heartland Regional Medical Center) -
Illinois (Loyola University Medical Center) - Mucinous cystadenoma, pancreas (1); Mucinous cystic neoplasm, moderate dysplasia (1)
Illinois (Oak Brook) - Mucinous cystic tumor, borderline
Kansas (Cytocheck Laboratory) - Mucinous cystadenoma
Louisiana (LSUHSC) - Mucinous cystadenoma
Massachusetts (Tufts-New England Medical Center) - Mucinous cystadenoma
Michigan, Ann Arbor - Mucinous cystic neoplasm with moderate dysplasia (borderline)
Michigan (Oakwood Hospital) -
Minnesota (Fairview Ridges Hospital) - Mucinous cystic neoplasm, with moderate dysplasia
Minnesota (University of Minnesota) -
Missouri (Delta Medical Center) - Intraductal papillary mucinous tumor
Nebraska (Creighton University Medical Center) - Borderline mucinous gastric neoplasm
New Mexico, Albuquerque - Mucinous cystic tumor, borderline
New York (Albany Medical Center) - Mucinous cystadenoma (1); Mucinous cystic neoplasm with low grade dysplasia (1)
New York, Milwood - Borderline mucinous carcinoma
New York (Stony Brook University Hospital) - Mucinous cystic neoplasm
New York (SUNY Health Sciences Center) - Mucinous cystic neoplasm of borderline malignant potential
North Carolina (Wake Forest University Health Sciences) - Mucinous cystadenoma
Pennsylvania (Drexel University College of Medicine) - Mucinous cystadenoma
Pennsylvania (Conemaugh Memorial Medical Center) - Mucinous cystadenoma, borderline
Pennsylvania (Lehigh Valley Hospital) - Mucinous cystic neoplasm, borderline
Pennsylvania (Magee Women's Hospital) - Mucinous cystic neoplasm
Puerto Rico (University of Puerto Rico) - Mucinous cystic tumor of borderline malignant potential
South Dakota (LCM Residents) - Mucinous cystic neoplasm
Texas, Crystal Beach - Mucinous cystic tumor, borderline
Texas, Houston - Mucinous cystic neoplasm of pancreas
Texas, Lubbock - Mucinous neoplasm
Texas (Scott & White Hospital) - Mucinous cystic tumor
Texas (Shavanno Park) - Mucinous cystic neoplasm
Washington (Seattle VAMC) - Mucinous cystic neoplasm without stromal invasion
Australia (Royal Hobart Hospital) - Mucinous cystic neoplasm of borderline malignant potential
Brazil (Federal University of Sao Paulo) - Mucinous cystic neoplasm of borderline malignancy
Canada (Pasqua Hospital) - Mucinous cystic neoplasm with moderate dysplasia
Canada (University of Sherbrooke) - Mucinous cystic neoplasm, borderline
Japan (Asahi General Hospital) - Mucinous cystic neoplasm with moderate dysplasia
Japan (Kyoto University Hospital) - Mucinous cystic neoplasm of borderline malignant potential

United Kingdom (John Radcliffe Hospital) - Pancreatic mucinous cystic neoplasm with borderline features
West Virginia (Greenbrier Valley Medical Center) - Mucinous cystic neoplasm
Wisconsin, Madison - Mucinous cystadenoma

Case 1 – Diagnosis.

Borderline mucinous cystic neoplasm, pancreas
T-59000, M-84703

Directors note: Although the study set slides do not show invasion, there were several rare, micro-invasive foci elsewhere (i.e. “mucinous cystadenocarcinoma”). drc

Case 1 - References:

Goonetilleke KS and Siriwardena AK. Current Status of Gene Expression Profiling of Pancreatic Cancer. *Int J Surg* 2008; 6(1):81-83.
Fernandez-del Castillo C. Mucinous Cystic Neoplasms. *J Gastrointest Surg* 2008; 12(3):411-413.
Adsay NV. Cystic Neoplasia of the Pancreas: Pathology and Biology. *Gastrointest Surg* 2008; 12(3):401-404.
Suzuki Y, Sugiyama M., Abe N, et al. Immunohistochemical Similarities Between Pancreatic Mucinous Cystic Tumor and Ovarian Mucinous Cystic Tumor. *Pancreas* 2008; 36(1):40-46.
Colovic R, Micev M, Radak V, et al. Mucinous Cystadenoma of Pancreatic Head with Focal Malignant Alteration in a 52-Year-Old Man. *Srp Arh Celok Lek* 2007; 135(3-4):204-207.

Case No. 2, Accession No. 30774

November 2008

Fontana (Kaiser Foundation Hospital) - Solid and pseudopapillary tumor
Glendale - Solid pseudopapillary tumor
Long Beach (Long Beach VA) - Solid pseudopapillary neoplasm (5)
Oakland - Solid pseudopapillary tumor
Oakland (Alameda County Medical Center) - Pancreatic solid-pseudopapillary tumor
Oakland (Kaiser Permanente) - Solid pseudopapillary neoplasm (9)
Orange (Orange County Pathology) - Solid pseudopapillary neoplasm
Oxnard (St. John's Regional Medical Center) - Pancreatic endocrine neoplasm
Pleasant Hill - Solid pseudopapillary tumor
San Diego (Naval Medical Center) - Solid pseudopapillary tumor
San Diego (Scripps Clinic) - Solid pseudopapillary neoplasm
Colorado (Fort Collins) - Pancreatic solid pseudopapillary carcinoma
Florida (Naples Pathology Associates) - Solid cystic-papillary epithelial neoplasm
Georgia, Decatur - Solid pseudopapillary tumor
Illinois (Burr Ridge) - Solid pseudopapillary carcinoma
Illinois, Chicago - Solid pseudopapillary tumor
Illinois (Heartland Regional Medical Center) - Solid pseudopapillary neoplasm
Illinois (Loyola University Medical Center) - Neuroendocrine carcinoma, pancreas (1); Solid pseudopapillary tumor (1)
Illinois (Oak Brook) - Solid pseudopapillary tumor
Kansas (Cytocheck Laboratory) - Pseudopapillary tumor
Louisiana (LSUHSC) - Solid pseudopapillary tumor
Massachusetts (Tufts-New England Medical Center) - Solid pseudopapillary tumor
Michigan, Ann Arbor - Solid pseudopapillary neoplasm
Michigan (Oakwood Hospital) - Solid pseudopapillary neoplasm
Minnesota (Fairview Ridges Hospital) - Solid pseudopapillary tumor of pancreas
Minnesota (University of Minnesota) - Solid pseudopapillary epithelial neoplasm
Missouri (Delta Medical Center) - Solid pseudopapillary tumor
Nebraska (Creighton University Medical Center) - Solid pseudopapillary neoplasm
New Mexico, Albuquerque - Solid pseudopapillary tumor
New York (Albany Medical Center) - Solid pseudopapillary tumor (2)
New York, Milwood - Papillary mucinous adenocarcinoma

New York (Stony Brook University Hospital) - Solid pseudopapillary tumor
New York (SUNY Health Sciences Center) - Hepatocellular carcinoma
North Carolina (Wake Forest University Health Sciences) - Solid pseudopapillary neoplasm
Pennsylvania (Conemaugh Memorial Medical Center) - Solid pseudopapillary tumor
Pennsylvania (Drexel University College of Medicine) - Solid pseudopapillary tumor
Pennsylvania (Lehigh Valley Hospital) - Solid papillary tumor
Pennsylvania (Magee Women's Hospital) - Solid pseudopapillary tumor
Puerto Rico (University of Puerto Rico) - Solid pseudopapillary tumor
South Dakota (LCM Residents) - Solid pseudopapillary tumor
Texas, Crystal Beach - Large cell lymphoma
Texas, Houston - Solid pseudopapillary neoplasm
Texas, Lubbock - Solid pseudopapillary neoplasm
Texas (Scott & White Hospital) - Solid and pseudopapillary tumor
Texas (Shavanno Park) - Solid pseudopapillary tumor
Washington (Seattle VAMC) - Solid pseudopapillary carcinoma
Australia (Royal Hobart Hospital) - Solid pseudopapillary neoplasm of pancreas
Brazil (Federal University of Sao Paulo) - Solid pseudopapillary tumor vs. pancreatic endocrine tumor
Canada (Pasqua Hospital) - Solid pseudopapillary neoplasm
Canada (University of Sherbrooke) - Solid pseudopapillary tumor
Japan (Asahi General Hospital) - Solid-pseudopapillary neoplasm
Japan (Kyoto University Hospital) - Solid pseudopapillary neoplasm, pancreas
United Kingdom (John Radcliffe Hospital) - Solid and cystic pseudopapillary neoplasm, pancreas
West Virginia (Greenbrier Valley Medical Center) - Solid pseudopapillary neoplasm
Wisconsin, Madison - Solid pseudopapillary tumor

Case 2 - Diagnosis:

Solid pseudopapillary neoplasm, pancreas
 T-59000, M-80001

Case 2 - References:

Rutland B, Pollock J, Thompson L, et al. Solid-Pseudopapillary Tumor. A Report of Three Cases in Adult males Diagnosed Utilizing Three Different Modalities. *Diagn Cytopathol* 2007; 35(4):234-238.
 Kang CM, Kim HG, Kim KS, et al. Laparoscopic Distal Pancreatectomy for Solid Pseudopapillary Neoplasm of the Pancreas-Report of Two Cases. *Hepatogastroenterology* 2007; 54(76):1053-1056.
 Adams AL, Siegal GP and Jhala NC. Solid Pseudopapillary Tumor of the Pancreas. A Review of Salient Clinical and Pathologic Features. *Adv Anat Pathol* 2008;15(1):39-45.
 Goh BK, Tan YM, Cheow PC, et al. Solid Pseudopapillary Neoplasms of the Pancreas. An Updated Experience. *Oncol* 2007; 95(8):640-644.
 Shi C, Daniels JA and Hruban RH. Molecular Characterization of Pancreatic Neoplasms. *Adv Anat Pathol* 2008; 15(4):185-195.

Case No. 3, Accession No. 30805

November 2008

Fontana (Kaiser Foundation Hospital) - Hepatocellular carcinoma
Glendale - Hepatocellular carcinoma
Long Beach (Long Beach VA) - Hepatocellular carcinoma, clear cell type (5)
Oakland - Clear cell hepatocellular carcinoma
Oakland (Alameda County Medical Center) - Hepatocellular carcinoma
Oakland (Kaiser Permanente) - Hepatocellular carcinoma (9)
Orange (Orange County Pathology) - Hepatocellular carcinoma
Oxnard (St. John's Regional Medical Center) - Liver cell carcinoma
Pleasant Hill - Hepatocellular carcinoma
San Diego (Naval Medical Center) - Hepatocellular carcinoma
San Diego (Scripps Clinic) - Hepatocellular carcinoma, clear cell type
Colorado (Fort Collins) - Metastatic renal cell carcinoma

Florida (Naples Pathology Associates) - Hepatocellular carcinoma
Georgia, Decatur - Hepatocellular carcinoma
Illinois (Burr Ridge) - Clear cell variant hepatocellular carcinoma
Illinois, Chicago - Hepatocellular carcinoma
Illinois (Heartland Regional Medical Center) - Hepatocellular carcinoma
Illinois (Loyola University Medical Center) - Hepatocellular carcinoma, liver (1); Carcinoma with clear cell features, differential includes hepatocellular, renal cell carcinoma, adrenocortical carcinoma (1)
Illinois (Oak Brook) - Hepatocellular adenoma with necrosis
Kansas (Cytocheck Laboratory) - Hepatic necrosis with cirrhosis
Louisiana (LSUHSC) - Hepatocellular carcinoma
Massachusetts (Tufts-New England Medical Center) - Hepatocellular carcinoma, clear cell variant
Michigan, Ann Arbor - Hepatocellular carcinoma
Michigan (Oakwood Hospital) - Hepatocellular carcinoma
Minnesota (Fairview Ridges Hospital) - Hepatocellular carcinoma
Minnesota (University of Minnesota) - Hepatocellular carcinoma
Missouri (Delta Medical Center) - Cirrhosis consistent with dysplasia
Nebraska (Creighton University Medical Center) - Hepatocellular carcinoma
New Mexico, Albuquerque - Hepatocellular carcinoma with clear cell features
New York (Albany Medical Center) - Hepatocellular carcinoma (2)
New York, Milwood - Well-differentiated hepatocellular carcinoma
New York (Stony Brook University Hospital) - Hepatocellular carcinoma
New York (SUNY Health Sciences Center) - Hepatocellular carcinoma
North Carolina (Wake Forest University Health Sciences) - Hepatocellular carcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Hepatocellular carcinoma, clear cell variant
Pennsylvania (Drexel University College of Medicine) - Hepatocellular carcinoma, clear cell type
Pennsylvania (Lehigh Valley Hospital) - Hepatocellular carcinoma
Pennsylvania (Magee Women's Hospital) - Hepatocellular carcinoma
Puerto Rico (University of Puerto Rico) - Hepatocellular carcinoma
South Dakota (LCM Residents) - Hepatocellular carcinoma
Texas, Crystal Beach - Nodular hyperplasia
Texas, Houston - Post necrotic regenerative nodules
Texas, Lubbock - Hepatocellular carcinoma
Texas (Scott & White Hospital) - Hepatocellular carcinoma with clear cell features
Texas (Shavanno Park) - Hepatocellular carcinoma
Washington (Seattle VAMC) - Hepatocellular carcinoma
Australia (Royal Hobart Hospital) - Hepatocellular carcinoma in a background of cirrhosis
Brazil (Federal University of Sao Paulo) - Hepatocellular carcinoma, moderately differentiated, pseudoglandular
Canada (Pasqua Hospital) - Hepatocellular carcinoma
Canada (University of Sherbrooke) - Hepatocellular carcinoma
Japan (Asahi General Hospital) - Hepatocellular carcinoma
Japan (Kyoto University Hospital) - Hepatocellular carcinoma
United Kingdom (John Radcliffe Hospital) - Hepatocellular carcinoma, clear cell variant
West Virginia (Greenbrier Valley Medical Center) - Reparative hepatic nodule
Wisconsin, Madison - Hepatocellular carcinoma, clear cell variant

Case 3 - Diagnosis:

Hepatocellular carcinoma, liver
 T-56000, M-81703

Directors note: Some regions had clear cell changes. (drc)

Case 3 - References:

Takahashi A, Saito H, Kanno Y, et al. Case of Clear-Cell Hepatocellular Carcinoma that Developed in the Normal Liver of a Middle-Aged Woman. *Gastroenterol* 2008; 14(1):129-131.
 Guzman G, Brunt EM, Petrovic LM, et al. Does Nonalcoholic Fatty Liver Disease Predispose Patients to Hepatocellular Carcinoma in the Absence of Cirrhosis? Guzman g, Brunt EM, Petrovic LM, et al. *Arch Pathol Lab Med* 2008; 132(11):1761-1766.

Zhong YD and Yang YF. Diabetes Mellitus, Chronic Hepatitis C, and Hepatocellular Carcinoma. *Hepatology* 2008; 48(4):1348 and *Hepatology* 2008; 47(6):1856-1862.

Debruyne EN and Delanghe JR. Diagnosing and Monitoring Hepatocellular Carcinoma with Alpha-Fetoprotein. New Aspects and Applications. *Clin Chim Acta* 2008; 395 (1-2):19-26.

Kamohara Y, Haraguchi N, Mimori, et al. The Search for Cancer Stem Cells in Hepatocellular Carcinoma. *Surg* 2008; 144(2):119-124.

Case No. 4, Accession No. 30849

November 2008

Fontana (Kaiser Foundation Hospital) - Cholangiocarcinoma

Glendale - Sclerosing hepatocellular carcinoma

Long Beach (Long Beach VA) - Cholangiocarcinoma (1); Adenocarcinoma favor cholangiocarcinoma (4)

Oakland - Adenocarcinoma, probably cholangiocarcinoma

Oakland (Alameda County Medical Center) - Cholangiocarcinoma

Oakland (Kaiser Permanente) - Cholangiocarcinoma (9)

Orange (Orange County Pathology) - Adenocarcinoma, favor cholangiocarcinoma

Oxnard (St. John's Regional Medical Center) - Bile duct carcinoma

Pleasant Hill - Cholangiocarcinoma

San Diego (Naval Medical Center) - Cholangiocarcinoma

San Diego (Scripps Clinic) - Hepatocellular carcinoma, scirrhus type

Colorado (Fort Collins) - Cholangiocarcinoma

Florida (Naples Pathology Associates) - Cholangiocarcinoma

Georgia, Decatur - Combined hepatocellular carcinoma, cholangiocarcinoma

Illinois (Burr Ridge) - Hepatocellular carcinoma, scirrhus type

Illinois, Chicago - Metastatic colonic carcinoma

Illinois (Heartland Regional Medical Center) - Adenocarcinoma, favor cholangiocarcinoma

Illinois (Loyola University Medical Center) - Metastatic adenocarcinoma, rule out pancreatic, bile duct and colon origin, liver (1); Moderately differentiated adenocarcinoma involving hepatic parenchyma, differential cholangiocarcinoma vs. metastasis (1)

Illinois (Oak Brook) - Hepatic cholangiocarcinoma

Kansas (Cytocheck Laboratory) - Cholangiocarcinoma

Louisiana (LSUHSC) - Cholangiocarcinoma

Massachusetts (Tufts-New England Medical Center) - Cholangiocarcinoma

Michigan, Ann Arbor - Intrahepatic cholangiocarcinoma

Michigan (Oakwood Hospital) - Adenocarcinoma, consistent with cholangiocarcinoma

Minnesota (Fairview Ridges Hospital) - Cholangiocarcinoma

Minnesota (University of Minnesota) - Intrahepatic cholangiocarcinoma

Missouri (Delta Medical Center) - Adenocarcinoma, rule out metastasis

Nebraska (Creighton University Medical Center) - Intrahepatic cholangiocarcinoma

New Mexico, Albuquerque - Cholangiocarcinoma

New York (Albany Medical Center) - Cholangiocarcinoma (2)

New York, Milwood - Intrahepatic cholangiocarcinoma

New York (Stony Brook University Hospital) - Cholangiocarcinoma

New York (SUNY Health Sciences Center) - Cholangiocarcinoma

North Carolina (Wake Forest University Health Sciences) - Cholangiocarcinoma, rule out metastatic colon cancer

Pennsylvania (Conemaugh Memorial Medical Center) - Cholangiocarcinoma

Pennsylvania (Drexel University College of Medicine) - Cholangiocarcinoma

Pennsylvania (Lehigh Valley Hospital) - Cholangiocarcinoma

Pennsylvania (Magee Women's Hospital) - Cholangiocarcinoma

Puerto Rico (University of Puerto Rico) - Cholangiocarcinoma/fibrolamellar hepatocellular carcinoma

South Dakota (LCM Residents) - Cholangiocarcinoma

Texas, Crystal Beach - Biliary carcinoma

Texas, Houston - Intrahepatic cholangiocarcinoma

Texas, Lubbock - Cholangiocarcinoma

Texas (Scott & White Hospital) - Cholangiocarcinoma

Texas (Shavanno Park) - Cholangiocarcinoma
Washington (Seattle VAMC) - Cholangiocarcinoma
Australlia (Royal Hobart Hospital) - Cholangiocarcinoma
Brazil (Federal University of Sao Paulo) - Well-differentiated cholangiocarcinoma
Canada (Pasqua Hospital) - Cholangiocarcinoma
Canada (University of Sherbrooke) - Hepatocellular carcinoma, sclerosing type
Japan (Asahi General Hospital) - Hepatocellular carcinoma, scirrhus type
Japan (Kyoto University Hospital) - Intrahepatic cholangiocarcinoma
United Kingdom (John Radcliffe Hospital) - Cholangiocarcinoma (need to exclude metastasis)
West Virginia (Greenbrier Valley Medical Center) - Fibrolamellar hepatocellular carcinoma
Wisconsin, Madison - Cholangiocarcinoma

Case 4 - Diagnosis:

Cholangiocarcinoma, liver
 T-56000, M-81603

Case 4 - References:

Paik KY, Jung JC, Heo JS, et al. What Prognostic Factors are Important for Resected Intrahepatic Cholangiocarcinoma? *J. Gastroenterol Hepatol* 2008; 23(5):766-770.
 Zhou YM, Yang JM, Li B, et al. Clinicopathologic Characteristics of Intrahepatic Cholangiocarcinoma in Patients with Positive Serum A-Fetoprotein. *World J Gastroenterol* 2008; 14(14):2251-2254.
 Vij K and Wang HL. Aberrant Expression of Alpha-Fetoprotein in Intrahepatic Cholangiocarcinoma. An Exceptional Occurrence. *Int J Surg Pathol* 2008; 16(2):194-198.
 Uenishi T, Yamazaki O, Tanaka H, et al. Serum Cytokeratin 19 Fragment (CYFRA21-1) as a Prognostic Factor in Intrahepatic Cholangiocarcinoma. *Ann Surg Oncol* 2008; 15(2):583-589.
 Yoshikawa D, Ojima H, Iwasaki M, et al. Clinicopathological and Prognostic Significance of EGFR, VEGF, and HER2 Expression in Cholangiocarcinoma. *Br J Cancer* 2008; 98(2):418-425.

Case No. 5, Accession No. 30893

November 2008

Fontana (Kaiser Foundation Hospital) - Solitary fibrous tumor
Glendale - Solitary fibrous tumor
Long Beach (Long Beach VA) - Solitary fibrous tumor (5)
Oakland - Solitary fibrous tumor vs. GIST
Oakland (Alameda County Medical Center) - Solitary fibrous tumor
Oakland (Kaiser Permanente) - Solitary fibrous tumor (9)
Orange (Orange County Pathology) - Solitary fibrous tumor
Oxnard (St. John's Regional Medical Center) - Solitary fibrous tumor
Pleasant Hill - Solitary fibrous tumor
San Diego (Naval Medical Center) - Solitary fibrous tumor
San Diego (Scripps Clinic) - GIST, probably malignant
Colorado (Fort Collins) - Gastrointestinal stromal tumor
Florida (Naples Pathology Associates) - Solitary fibrous tumor
Georgia, Decatur - Solitary fibrous tumor
Illinois (Burr Ridge) - Fibromatosis
Illinois, Chicago - Solitary fibrous tumor
Illinois (Heartland Regional Medical Center) - Solitary fibrous tumor
Illinois (Loyola University Medical Center) - GIST vs. solitary fibrous tumor, cecum (1); Solitary fibrous tumor (1)
Illinois (Oak Brook) - Solitary fibrous tumor
Kansas (Cytocheck Laboratory) - Solitary fibrous tumor
Louisiana (LSUHSC) - Gastrointestinal stromal tumor CD117 negative
Massachusetts (Tufts-New England Medical Center) - Solitary fibrous tumor
Michigan, Ann Arbor - Solitary fibrous tumor
Michigan (Oakwood Hospital) - Inflammatory fibroid polyp
Minnesota (Fairview Ridges Hospital) - Solitary fibrous tumor

Minnesota (University of Minnesota) - GIST
Missouri (Delta Medical Center) - Schwannoma
Nebraska (Creighton University Medical Center) - Solitary fibrous tumor
New Mexico, Albuquerque - Solitary fibrous tumor
New York (Albany Medical Center) - Solitary fibrous tumor (2)
New York, Milwood - Inflammatory myofibroblastic tumor
New York (Stony Brook University Hospital) - Solitary fibrous tumor
New York (SUNY Health Sciences Center) - Solitary fibrous tumor
North Carolina (Wake Forest University Health Sciences) - Solitary fibrous tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Solitary fibroma
Pennsylvania (Drexel University College of Medicine) - Solitary fibrous tumor
Pennsylvania (Lehigh Valley Hospital) - Solitary fibrous tumor
Pennsylvania (Magee Women's Hospital) - Solitary fibrous tumor
Puerto Rico (University of Puerto Rico) - Inflammatory fibroid polyp
South Dakota (LCM Residents) - Solitary fibrous tumor
Texas, Crystal Beach - Solitary fibrous tumor
Texas, Houston - Gastrointestinal stromal tumor, benign
Texas, Lubbock - Solitary fibrous tumor
Texas (Scott & White Hospital) - Solitary fibrous tumor
Texas (Shavanno Park) - Solitary fibrous tumor
Washington (Seattle VAMC) - Solitary fibrous tumor
Australia (Royal Hobart Hospital) - Solitary fibrous tumor, cecum
Brazil (Federal University of Sao Paulo) - Gastrointestinal stromal tumor
Canada (Pasqua Hospital) - Solitary fibrous tumor
Canada (University of Sherbrooke) - Gastrointestinal stromal tumor
Japan (Asahi General Hospital) - Solitary fibrous tumor
Japan (Kyoto University Hospital) - Solitary fibrous tumor, colon
United Kingdom (John Radcliffe Hospital) - Solitary fibrous tumor
West Virginia (Greenbrier Valley Medical Center) - Solitary fibrous tumor
Wisconsin, Madison - Solitary fibrous tumor

Case 5 - Diagnosis:

Solitary fibrous tumor, colon
 T-67000, M-90510

Case 5 - References:

Torabi A, Lele SM, Di Maio D, et al. Lack of Common or Characteristic Cytogenetic Anomaly in Solitary Fibrous Tumor. *Cancer Genet Cytogenet* 2008; 181(1):60-64.
 Salem Am, Bateson PB and Madden MM. Large Solitary Fibrous Tumor Arising from the Omentum. *Saudi Med* 2008; 29(4):617-618.
 Vallat-Decouvelaere AV, Dry SM and Fletcher CD. Atypical and Malignant Solitary Fibrous Tumors in Extrathoracic Locations. Evidence of their Comparability to Intra-Thoracic Tumors. *Am J Surg Pathol* 1998; 22(12):1501-1511.
 Morgan MB and Smoller BR. Solitary Fibrous Tumors are Immunophenotypically Distinct from Mesothelioma(s). *J Cutan Pathol* 2000; 27(9):451-454.
 Clayton AC, Solomao DR, Keeney GL, et al. Solitary Fibrous Tumor. A Study of Cytologic Features of Six Cases Diagnosed by Fine-Needle Aspiration. *Diagn Cytopathol* 2001; 25(3):172-176.

Case No. 6, Accession No. 30780

November 2008

Fontana (Kaiser Foundation Hospital) - Gastrointestinal stromal tumor
Glendale - Malignant gastrointestinal stromal tumor
Long Beach (Long Beach VA) - Gastrointestinal stromal tumor, high risk (5)
Oakland - Gastrointestinal stromal tumor
Oakland (Alameda County Medical Center) - Gastrointestinal stromal tumor, malignant
Oakland (Kaiser Permanente) - Malignant gastrointestinal stromal tumor (9)

Orange (Orange County Pathology) - Gastrointestinal stromal tumor
Oxnard (St. John's Regional Medical Center) - Gastrointestinal stromal tumor
Pleasant Hill - Gastrointestinal stromal tumor
San Diego (Naval Medical Center) - Gastrointestinal stromal tumor, malignant (high risk)
San Diego (Scripps Clinic) - Malignant gastrointestinal stromal tumor
Colorado (Fort Collins) - Gastrointestinal stromal tumor
Florida (Naples Pathology Associates) - Gastrointestinal stromal tumor
Georgia, Decatur - Gastrointestinal stromal tumor, probably malignant
Illinois (Burr Ridge) - Gastrointestinal stromal tumor, malignant
Illinois, Chicago - Gastrointestinal stromal tumor
Illinois (Heartland Regional Medical Center) - GIST, high risk for malignancy
Illinois (Loyola University Medical Center) - Aggressive GIST, stomach (1); Gastrointestinal stromal tumor, high risk
 (1)
Illinois (Oak Brook) - Gastrointestinal stromal tumor, malignant or high grade
Kansas (Cytocheck Laboratory) - Gastrointestinal stromal tumor
Louisiana (LSUHSC) - Gastrointestinal stromal tumor
Massachusetts (Tufts-New England Medical Center) - Malignant gastrointestinal stromal tumor
Michigan, Ann Arbor - Gastrointestinal stromal tumor
Michigan (Oakwood Hospital) - Gastrointestinal stromal tumor, malignant
Minnesota (Fairview Ridges Hospital) - Gastrointestinal stromal tumor, high-risk
Minnesota (University of Minnesota) - GIST (GNAT)
Missouri (Delta Medical Center) - Gastrointestinal stromal tumor
Nebraska (Creighton University Medical Center) - Malignant gastrointestinal stromal tumor
New Mexico, Albuquerque - Gastrointestinal stromal tumor, malignant
New York (Albany Medical Center) - Malignant gastrointestinal stromal tumor (2)
New York, Milwood - Gastrointestinal stromal tumor
New York (Stony Brook University Hospital) - Malignant gastrointestinal stromal tumor
New York (SUNY Health Sciences Center) - Gastrointestinal stromal tumor, high risk
North Carolina (Wake Forest University Health Sciences) - Gastrointestinal stromal tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Malignant, GIST
Pennsylvania (Drexel University College of Medicine) - Malignant gastrointestinal stromal tumor
Pennsylvania (Lehigh Valley Hospital) - Gastrointestinal stromal tumor, malignant
Pennsylvania (Magee Women's Hospital) - Malignant gastrointestinal stromal tumor
Puerto Rico (University of Puerto Rico) - Malignant gastrointestinal stromal tumor
South Dakota (LCM Residents) - Gastrointestinal stromal tumor
Texas, Crystal Beach - Gastrointestinal stromal tumor, malignant
Texas, Houston - Gastrointestinal stromal tumor, malignant
Texas, Lubbock - Malignant gastrointestinal stromal tumor
Texas (Scott & White Hospital) - Malignant gastrointestinal stromal tumor
Texas (Shavanno Park) - Gastrointestinal stromal tumor
Washington (Seattle VAMC) - Gastrointestinal stromal tumor
Australia (Royal Hobart Hospital) - GIST with high risk of aggressive behavior
Brazil (Federal University of Sao Paulo) - Gastrointestinal stromal tumor, malignant
Canada (Pasqua Hospital) - Gastrointestinal stromal tumor
Canada (University of Sherbrooke) - Gastrointestinal stromal tumor
Japan (Asahi General Hospital) - Gastrointestinal stromal tumor
Japan (Kyoto University Hospital) - Gastrointestinal stromal tumor, malignant, stomach
United Kingdom (John Radcliffe Hospital) - Gastrointestinal stromal tumor, probably malignant
West Virginia (Greenbrier Valley Medical Center) - Gastrointestinal stromal tumor
Wisconsin, Madison - Malignant gastrointestinal stromal tumor

Case 6- Diagnosis:

Malignant gastrointestinal stromal tumor (GIST), stomach
 T-63000, M-88903

Case 6 - References:

- Chetty R. Small and Microscopically Detected Gastrointestinal Stromal Tumours. An Overview. *Pathol* 2008; 40(1):9-12.
- Miettinen M, Kraszewski E, Sobin LH, et al. A Nonrandom Association Between Gastrointestinal Stromal Tumors and Myeloid Leukemia. *Cancer* 2008; 112(3):645-649.
- Joensuu H. Risk Stratification of Patients Diagnosed with Gastrointestinal Stromal Tumor. *Hum Pathol* 2008; 39(10):1411-1419.
- Dematteo RP, Gold JS, et al. Tumor Mitotic Rate, Size, and Location Independently Predict Recurrence after Resection of Primary Gastrointestinal Stromal Tumor (GIST). *Cancer* 2008; 112(3):608-615.
- Galateros G, Simatos G, Lakiotis G, et al. Stromal Tumors of the Stomach. A Clinicopathological Study of 15 Cases and Review of the Literature. *Tumori* 2008; 94(4):459-463.

Case No. 7, Accession No. 30373

November 2008

Fontana (Kaiser Foundation Hospital) - Mucinous adenocarcinoma
Glendale - Mucinous carcinoma
Long Beach (Long Beach VA) - Mucinous adenocarcinoma (5)
Oakland - Pseudomyxoma peritonei
Oakland (Alameda County Medical Center) - Mucinous adenocarcinoma
Oakland (Kaiser Permanente) - Mucinous carcinoma (9)
Orange (Orange County Pathology) - Mucinous adenocarcinoma
Oxnard (St. John's Regional Medical Center) - Mucinous cyst adenocarcinoma
San Diego (Scripps Clinic) - Mucinous adenocarcinoma
Colorado (Fort Collins) - Mucinous adenocarcinoma (colloid carcinoma)
Florida (Naples Pathology Associates) - Mucinous adenocarcinoma
Georgia, Decatur - Mucinous colloid adenocarcinoma
Illinois (Burr Ridge) - Mucinous adenocarcinoma
Illinois, Chicago - Pseudomyxoma peritonei
Illinois (Heartland Regional Medical Center) - Mucinous adenocarcinoma
Illinois (Loyola University Medical Center) - Colonic adenocarcinoma with prominent mucin accumulation, colon (1); Mucinous carcinoma with pseudomyxoma peritonei (1)
Illinois (Oak Brook) - Mucinous adenocarcinoma
Kansas (Cytocheck Laboratory) - Mucinous carcinoma
Louisiana (LSUHSC) - Mucinous adenocarcinoma
Massachusetts (Tufts-New England Medical Center) - Mucinous adenocarcinoma
Michigan, Ann Arbor - Mucinous carcinoma
Michigan (Oakwood Hospital) - Mucinous carcinoma
Minnesota (Fairview Ridges Hospital) - Mucinous adenocarcinoma
Minnesota (University of Minnesota) - Mucinous adenocarcinoma
Missouri (Delta Medical Center) - Mucinous carcinoma (colloid carcinoma)
Nebraska (Creighton University Medical Center) - Mucinous adenocarcinoma
New Mexico, Albuquerque - Mucinous adenocarcinoma
New York (Albany Medical Center) - Metastatic adenocarcinoma (1); Pseudomyxoma peritonei (1)
New York, Milwood - Mucinous carcinoma
New York (Stony Brook University Hospital) - Mucinous adenocarcinoma
New York (SUNY Health Sciences Center) - Sclerosing mesenteritis
North Carolina (Wake Forest University Health Sciences) - Mucinous adenocarcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Mucinous carcinoma
Pennsylvania (Drexel University College of Medicine) - Colloid adenocarcinoma
Pennsylvania (Lehigh Valley Hospital) - Mucinous adenocarcinoma
Pennsylvania (Magee Women's Hospital) - Mucinous adenocarcinoma
South Dakota (LCM Residents) - Mucinous adenocarcinoma
Texas, Crystal Beach - Mucinous adenocarcinoma
Texas, Houston - Mucinous adenocarcinoma
Texas, Lubbock - Mucinous carcinoma

Texas (Scott & White Hospital) - Mucinous adenocarcinoma
Texas (Shavanno Park) - Metastatic adenocarcinoma
Washington (Seattle VAMC) - Adenocarcinoma, colloid carcinoma growth pattern
Australia (Royal Hobart Hospital) - Mucinous adenocarcinoma, unable to determine site of primary
Brazil (Federal University of Sao Paulo) - Mucinous carcinoma, rule out appendix origin
Canada (Pasqua Hospital) - Mucinous adenocarcinoma
Canada (University of Sherbrooke) - Mucinous adenocarcinoma, invasive
Japan (Asahi General Hospital) - Mucinous adenocarcinoma
Japan (Kyoto University Hospital) - Mucinous adenocarcinoma, colon
United Kingdom (John Radcliffe Hospital) - Mucinous adenocarcinoma
West Virginia (Greenbrier Valley Medical Center) - Mucinous producing colonic adenocarcinoma
Wisconsin, Madison - Mucinous adenocarcinoma

Case 7 - Diagnosis:

Mucinous (colloid) adenocarcinoma, colon
 T-67000, M-84803

Case 7 - References:

Logan-Collins JM, Lowy AM, et al. VEGF Expression Predicts Survival in Patients with Peritoneal Surface Metastases from Mucinous Adenocarcinoma of the Appendix and Colon. *Ann Surg Oncol* 2008; 15(3):738-744.
 Saad-Hossne R, Prado RG, et al. Peritoneal Pseudomyxoma Associated with Synchronic Malignant Mucinous Neoplasias of the Cecum, Appendix and Rectum. Case Report and Review of the Literature. *Acta Cir Bras* 2007; 22(5):407-411.
 Leopoldo S, Lorena B, et al. Two Subtypes of Mucinous Adenocarcinoma of the Colorectum. *Ann Surg Oncol* 2008; 15(5):1429-1439.
 Yemelyanova AV, Vang R, et al. Distinction of Primary and Metastatic Mucinous Tumors Involving the Ovary. Analysis of Size and Laterality Data by Primary Site with Reevaluation of an Algorithm for Tumor Classification. *Am J Surg Pathol* 2008; 32(1):128-138.

Case No. 8, Accession No. 30617

November 2008

Fontana (Kaiser Foundation Hospital) - Rhabdomyosarcoma
Glendale - Leiomyosarcoma
Long Beach (Long Beach VA) - Leiomyosarcoma, high grade (5)
Oakland - Sarcoma, most likely leiomyosarcoma
Oakland (Alameda County Medical Center) - Sarcoma, NOS
Oakland (Kaiser Permanente) - Leiomyosarcoma (9)
Orange (Orange County Pathology) - Leiomyosarcoma
Oxnard (St. John's Regional Medical Center) - Sarcoma
Pleasant Hill - Leiomyosarcoma
San Diego (Naval Medical Center) - Undifferentiated pleomorphic sarcoma, malignant fibrous histiocytoma
San Diego (Scripps Clinic) - Leiomyosarcoma
Colorado (Fort Collins) - Rhabdomyosarcoma
Florida (Naples Pathology Associates) - Leiomyosarcoma
Georgia, Decatur - Leiomyosarcoma
Illinois (Burr Ridge) - Malignant spindle cell tumor, high grade
Illinois, Chicago - Leiomyosarcoma
Illinois (Heartland Regional Medical Center) - Leiomyosarcoma
Illinois (Loyola University Medical Center) - Leiomyosarcoma, cecum (1); Sarcoma, high grade, with rhabdoid features (1)
Illinois (Oak Brook) - High grade sarcoma, malignant fibrous histiocytoma
Kansas (Cytocheck Laboratory) - Rhabdomyosarcoma
Louisiana (LSUHSC) - Poorly differentiated sarcoma
Massachusetts (Tufts-New England Medical Center) - Leiomyosarcoma
Michigan, Ann Arbor - Leiomyosarcoma

Michigan (Oakwood Hospital) - High grade sarcoma
Minnesota (Fairview Ridges Hospital) - Leiomyosarcoma, high grade
Minnesota (University of Minnesota) - Rhabdomyosarcoma
Missouri (Delta Medical Center) - Leiomyosarcoma
Nebraska (Creighton University Medical Center) - High grade sarcoma, favor leiomyosarcoma
New Mexico, Albuquerque - Leiomyosarcoma
New York (Albany Medical Center) - High grade sarcoma, favor leiomyosarcoma (1); Inflammatory fibrosarcoma (1)
New York, Milwood - Leiomyosarcoma
New York (Stony Brook University Hospital) - Epithelioid leiomyosarcoma
New York (SUNY Health Sciences Center) - Rhabdomyosarcoma vs. leiomyosarcoma
North Carolina (Wake Forest University Health Sciences) - High grade sarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Leiomyosarcoma
Pennsylvania (Drexel University College of Medicine) - Leiomyosarcoma
Pennsylvania (Lehigh Valley Hospital) - High grade sarcoma probably leiomyosarcoma
Pennsylvania (Magee Women's Hospital) - Leiomyosarcoma
Puerto Rico (University of Puerto Rico) - Leiomyosarcoma
South Dakota (LCM Residents) - Leiomyosarcoma
Texas, Crystal Beach - Sarcoma (fibrosarcoma)
Texas, Houston - Leiomyosarcoma, high grade
Texas, Lubbock - Rhabdomyosarcoma
Texas (Scott & White Hospital) - Leiomyosarcoma
Texas (Shavanno Park) - Rhabdomyosarcoma
Washington (Seattle VAMC) - Sarcoma, high grade growth pattern
Australia (Royal Hobart Hospital) - Probable high grade leiomyosarcoma
Brazil (Federal University of Sao Paulo) - Leiomyosarcoma
Canada (Pasqua Hospital) - Leiomyosarcoma
Canada (University of Sherbrooke) - Leiomyosarcoma
Japan (Asahi General Hospital) - Rhabdomyosarcoma
Japan (Kyoto University Hospital) - Malignant epithelioid and spindle cell tumor (leiomyosarcoma), cecum
United Kingdom (John Radcliffe Hospital) - Pleomorphic leiomyosarcoma
West Virginia (Greenbrier Valley Medical Center) - Leiomyosarcoma
Wisconsin, Madison - Leiomyosarcoma

Case 8 - Diagnosis:

Leiomyosarcoma, cecum
 T-67100, M-88903

Case 8 - References:

Wild D, Gan SI, Lee R, et al. Metastatic Leiomyosarcoma Diagnosed on Routine Screening Colonoscopy. *Am J Gastroenterol* 2007; 102(12):2861-2863.
 Rowe NM, Meisher IE, Sheka KP, et al. Leiomyosarcoma of the Anal Canal. A Case Report. *Int J Surg* 2007; 5(5):345-350.
 Katz SC and De Matteo RP. Gastrointestinal Stromal Tumors and Leiomyosarcomas. Subramanian S, Kumar M, Thulkar S, et al. Bowel Metastases from Primary Leiomyosarcoma of the Gluteal Region. *Singapore Med J* 2008; 49(3):68-70.
 Thalheimer L, Richmond B and Lohan J. Leiomyosarcoma of the Anal Canal. Case Report and Review of the Literature. *Am Surg* 2008; 74(1):76-78.

Case No. 9, Accession No. 30870

November 2008

Fontana (Kaiser Foundation Hospital) - Neuroendocrine carcinoma
Glendale - Neuroendocrine carcinoma
Long Beach (Long Beach VA) - Neuroendocrine carcinoma, carcinoid type (5)
Oakland - Neuroendocrine tumor
Oakland (Alameda County Medical Center) - Carcinoid

Oakland (Kaiser Permanente) - Neuroendocrine carcinoma (9)
Orange (Orange County Pathology) - Neuroendocrine carcinoma
Oxnard (St. John's Regional Medical Center) - Carcinoid
Pleasant Hill - Neuroendocrine carcinoma
San Diego (Naval Medical Center) - Neuroendocrine carcinoma
San Diego (Scripps Clinic) - Carcinoid tumor
Colorado (Fort Collins) - High grade neuroendocrine carcinoma, rule out malignant pheochromocytoma
Florida (Naples Pathology Associates) - Malignant carcinoid tumor
Georgia, Decatur - Poorly differentiated neuroendocrine carcinoma/apocrine carcinoma
Illinois (Burr Ridge) - Neuroendocrine carcinoma
Illinois, Chicago - Neuroendocrine neoplasm
Illinois (Heartland Regional Medical Center) - Endocrine cell tumor, malignant (malignant carcinoid)
Illinois (Loyola University Medical Center) - Neuroendocrine carcinoma, colon (2)
Illinois (Oak Brook) - Endocrine tumor, colon
Kansas (Cytocheck Laboratory) - Microglandular carcinoma
Louisiana (LSUHSC) - Well-differentiated neuroendocrine carcinoma (neuroendocrine tumor, grade 3)
Massachusetts (Tufts-New England Medical Center) - Malignant neuroendocrine neoplasm
Michigan, Ann Arbor - Neuroendocrine carcinoma
Michigan (Oakwood Hospital) - Poorly differentiated carcinoma with neuroendocrine features
Minnesota (Fairview Ridges Hospital) - Neuroendocrine carcinoma, moderately differentiated
Minnesota (University of Minnesota) - Metastatic carcinoma (adrenal)
Missouri (Delta Medical Center) - Neuroendocrine tumor
Nebraska (Creighton University Medical Center) - Neuroendocrine carcinoma, malignant carcinoid
New Mexico, Albuquerque - Neuroendocrine tumor, poorly differentiated
New York (Albany Medical Center) - Malignant carcinoid (2)
New York, Milwood - Carcinoid tumor
New York (Stony Brook University Hospital) - Neuroendocrine carcinoma
New York (SUNY Health Sciences Center) - Neuroendocrine carcinoma, high grade
North Carolina (Wake Forest University Health Sciences) - Moderately differentiated neuroendocrine carcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Metastatic carcinoma, favor adrenal cortical carcinoma
Pennsylvania (Drexel University College of Medicine) - Neuroendocrine carcinoma
Pennsylvania (Lehigh Valley Hospital) - Neuroendocrine carcinoma
Pennsylvania (Magee Women's Hospital) - Metastatic adrenal cortical carcinoma
Puerto Rico (University of Puerto Rico) - High grade neuroendocrine tumor
South Dakota (LCM Residents) - Neuroendocrine carcinoma
Texas, Crystal Beach - Carcinoma, possibly adrenal cortical
Texas, Houston - Neuroendocrine carcinoma
Texas, Lubbock - Neuroendocrine carcinoma
Texas (Scott & White Hospital) - Carcinoid
Texas (Shavanno Park) - Neuroendocrine carcinoma
Washington (Seattle VAMC) - Carcinoma, high grade growth, endocrine carcinoma
Australia (Royal Hobart Hospital) - Carcinoid tumor, colon
Brazil (Federal University of Sao Paulo) - Large cell neuroendocrine carcinoma
Canada (Pasqua Hospital) - Neuroendocrine carcinoma
Canada (University of Sherbrooke) - Neuroendocrine carcinoma
Japan (Asahi General Hospital) - Well-differentiated endocrine carcinoma, pancreas
Japan (Kyoto University Hospital) - Endocrine tumor (atypical carcinoid), colon
United Kingdom (John Radcliffe Hospital) - Neuroendocrine carcinoma
West Virginia (Greenbrier Valley Medical Center) - Neuroendocrine carcinoma
Wisconsin, Madison - High grade neuroendocrine carcinoma

Case 9 - Diagnosis:

High grade neuroendocrine carcinoma, splenic flexure
 T-67500, M-80103

Case 9 - References:

- Mukhopadhyay S, Marhaba A, Sidhu JS, et al. Small Advance Neuroendocrine Carcinoma of Rectum Discovered in an Adenomatous Polyp. *Endoscopy* 2005; 37(12):1256-1257.
- Terashima T, Tomida S, et al. Cytokeratin 20-Positive Large Cell Neuroendocrine Carcinoma of the Colon. *Pathol Int* 2005; 55(8):524-529.
- Bernick PE, Klimstra DS, et al. Neuroendocrine Carcinomas of the Colon and Rectum. *Dis Colon Rectum* 2004; 47(2):163-169.
- Northrop JA and Lee JH. Large Bowel Carcinoid Tumors. *Curr Opin Gastroenterol* 2007; 23(1):74-78.
- Chetty R. Requiem for the Term "Carcinoid Tumour" in the Gastrointestinal Tract? *Can J Gastroenterol* 2008; 22(4):357-358.
- Van Gompel JJ, Stoddard E and Chen H. Incidental Carcinoid Tumors of the Appendix. Do They Affect Presentation or Prognosis? *Int Surg* 2007; 92(6):331-334.

Case No. 10, Accession No. 30862

November 2008

Fontana (Kaiser Foundation Hospital) - Intra-abdominal desmoplastic small cell tumor

Glendale - Desmoplastic small round cell tumor

Long Beach (Long Beach VA) - Small blue cell tumor (5)

Oakland - Carcinoid

Oakland (Alameda County Medical Center) - Neuroendocrine carcinoma

Oakland (Kaiser Permanente) - Malignant neuroendocrine tumor (8); Desmoplastic small cell (1)

Orange (Orange County Pathology) - Permeative neuroectodermal tumor

Oxnard (St. John's Regional Medical Center) - Carcinoid

Pleasant Hill - Ewings sarcoma

San Diego (Naval Medical Center) - Permeative neuroectodermal tumor/extra skeletal Ewings sarcoma

San Diego (Scripps Clinic) - Neuroendocrine carcinoma

Colorado (Fort Collins) - High grade metastatic neuroendocrine carcinoma

Florida (Naples Pathology Associates) - Desmoplastic small round cell tumor

Georgia, Decatur - Small cell carcinoma

Illinois (Burr Ridge) - Neuroendocrine carcinoma

Illinois, Chicago - Metastatic carcinoid tumor

Illinois (Heartland Regional Medical Center) - Endocrine cell tumor, high grade malignant (rule out desmoplastic small round cell tumor)

Illinois (Loyola University Medical Center) - Small blue cell tumor, favor malignant permeative neuroendocrine carcinoma (1); Neuroendocrine carcinoma (1)

Illinois (Oak Brook) - Malignant neuroendocrine tumor

Kansas (Cytocheck Laboratory) - Neuroendocrine carcinoma

Louisiana (LSUHSC) - Neuroendocrine carcinoma, high grade (neuroendocrine tumor, grade 4)

Massachusetts (Tufts-New England Medical Center) - High grade neuroendocrine neoplasm

Michigan, Ann Arbor - Desmoplastic small round cell tumor

Michigan (Oakwood Hospital) - Primitive neuroectodermal tumor

Minnesota (Fairview Ridges Hospital) - Metastatic neuroendocrine carcinoma /small cell carcinoma

Minnesota (University of Minnesota) - Desmoplastic round cell tumor

Missouri (Delta Medical Center) - Neuroendocrine carcinoma

Nebraska (Creighton University Medical Center) - Neuroendocrine carcinoma

New Mexico, Albuquerque - Small cell carcinoma

New York (Albany Medical Center) - High grade neuroendocrine carcinoma (2)

New York, Milwood - Neuroendocrine tumor

New York (Stony Brook University Hospital) - Desmoplastic small round cell tumor

New York (SUNY Health Sciences Center) - Permeative neuroectodermal tumor

North Carolina (Wake Forest University Health Sciences) - Small cell carcinoma

Pennsylvania (Conemaugh Memorial Medical Center) - Malignant neuroendocrine tumor

Pennsylvania (Drexel University College of Medicine) - Desmoplastic small round cell tumor

Pennsylvania (Lehigh Valley Hospital) - Permeative neuroectodermal tumor

Pennsylvania (Magee Women's Hospital) - Desmoplastic small round cell tumor

Puerto Rico (University of Puerto Rico) - High grade neuroendocrine tumor
South Dakota (LCM Residents) - Neuroendocrine carcinoma
Texas, Crystal Beach - Neuroendocrine carcinoma
Texas, Houston - Neuroendocrine tumor
Texas, Lubbock - Desmoplastic small round tumor
Texas (Scott & White Hospital) - High grade neuroendocrine carcinoma
Texas (Shavanno Park) - Neuroendocrine carcinoma
Washington (Seattle VAMC) - Endocrine carcinoma, high grade growth than #9
Australia (Royal Hobart Hospital) - Desmoplastic small round cell tumor
Brazil (Federal University of Sao Paulo) - Malignant small blue, round cell tumor (NB, PNET, RMS)
Canada (Pasqua Hospital) - Desmoplastic small round cell neoplasm
Canada (University of Sherbrooke) - Neuroblastoma
Japan (Asahi General Hospital) - Poorly differentiated endocrine carcinoma
Japan (Kyoto University Hospital) - Endocrine tumor (poorly differentiated neuroendocrine neoplasm)
United Kingdom (John Radcliffe Hospital) - Small blue cell tumor favor intra-abdominal desmoplastic small round cell tumor
West Virginia (Greenbrier Valley Medical Center) - Carcinoid tumor
Wisconsin, Madison - Neuroendocrine tumor (carcinoid tumor)

Case 10 - Diagnosis:

Undifferentiated small cell malignancy, probably neuroendocrine, abdominal cavity
 T-Y4500, M-82403

Case 10 - References:

Staeger MS, Hutter C, et al. DNA Microarrays Reveal Relationship of Ewing Family Tumors to Both Endothelial and Fetal Neural Crest-Derived Cells and Define Novel Targets. *Cancer Res* 2004; 64(22):8213-8221.
 Ravindra S and Kini U. Cytomorphology and Morphometry of Small Round-Cell Tumors in the Region of the Kidney. *Diagn Cytopathol* 2005; 32(4):211-216.
 Pecorella I, Memeo L, Ciardi A, et al. An Unusual Case of Colonic Mixed Adenoendocrine Carcinoma. Collision Versus Composite Tumor. A Case Report and Review of the Literature. *Ann Diagn Pathol* 2007; 11(4):285-290.
 Rorstad O. Prognostic Indicators for Carcinoid Neuroendocrine Tumors of the Gastrointestinal Tract. *J Surg Oncol* 2005; 89(3):151-160.
 Wu FS, Yu XF, Teng LS, et al. Malignant Gastric Carcinoids with Liver Metastasis. *Hepatobiliary Pancreat Dis Int* 2004; 3(3):406-410.
 Moran CA and Suster S. Neuroendocrine Carcinomas (Carcinoid, Atypical Carcinoid, Small Cell Carcinoma, and Large Cell Neuroendocrine Carcinoma). Current Concepts. *Hematol Oncol Clin North Am* 2007; 21(3):395-407