



CALIFORNIA
TUMOR TISSUE REGISTRY

DIGESTIVE PATHOLOGY

Minutes – Subscription B

April 2009



SUGGESTED READING (General Topics from Recent Literature):

- Comprehensive Evaluation of CDX2 in Invasive Cervical Adenocarcinomas. Immunopositivity in the Absence of Overt Colorectal Morphology. Sullivan LM, Smolkin ME, et al. *Am J Surg Pathol* 2008; 32(11):1608-1612.
- Hepatic Granulomas, With an Emphasis on Infectious Causes. Lamps LW. *Adv Anat Pathol* 2008; 15:309-338.
- Reappraisal of T3N0/NxM0 Renal Cell Carcinoma. Significance of Extent of Fat Invasion, Renal Vein Invasion, and Adrenal Invasion. *Hum Pathol* 2008; 39:1689-1694.
- The Clinical Utility and Diagnostic Yield of Routine Gastric Biopsies in the Investigation of Iron Deficiency Anemia. A Case-Control Study. Kaye PV, Garsed K, et al. *Am J Gastroenterol* 2008; 2883-2889.
- Atypical Lobular Hyperplasia and Classic Lobular Carcinoma In-Situ in Core Biopsy Specimens. Routine Excision Is Not Necessary. *Mod Pathol* 2008; 21(10):1208-1216.

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FILE DIAGNOSES

CTTR Subscription B

April 2009

Case 1:

Polypoid/nodular lymphoid hyperplasia, ileum
T-65200, M-72200

Case 2:

Adenocarcinoma, common bile duct
T-58900, M-81403

Case 3:

Hepatoblastoma, liver
T-56000, M-89703

Case 4:

Hepatocellular carcinoma, liver
T-56000, M-81703

Case 5:

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

Case 6:

Ductal adenocarcinoma, pancreas
T-59000, m-81403

Case 7:

Pancreatic endocrine carcinoma/well-differentiated neuroendocrine carcinoma
T-59000, M-80103

Case 8:

Carcinoid tumor, ileum, metastatic to lymph node
T-64000, M-82403

Case 9:

Carcinoma ex-pleomorphic adenoma, parotid
T-10180, M-81403

Case 10:

Spindle squamous (sarcomatoid) carcinoma, parotid
T-55100, M-80703

Glendale - Angiomas

Loma Linda - Ileum with scattered mucosal lymph follicles

San Diego (Naval Medical Center) - Lipomatous hyperplasia/lymphoid polyposis

Woodland Hills (Woodland Hills Medical Center) - Peyer's patches (normal ileum)

Florida (Naples Pathology Associates) - Reactive mucosal lymphoid aggregates (no cecum on my slide, just small bowel)

Georgia, Decatur - Follicular lymphoid hyperplasia

Illinois (Heartland Regional Medical Center) - Lymphoid follicles of ileal mucosa

Kansas (Coffeyville Regional Medical Center) - Peyer's patches submucosal fat

Kansas (Peterson Laboratory Services) - Polypoid nodular lymphoid hyperplasia

Louisiana (LSUHSC) - Nodular lymphoid hyperplasia

Maryland (University of Maryland) - Reactive follicular hyperplasia

Michigan (St. Mary's Hospital) - Benign mucosal lymphoid aggregates

New York (Albany Medical Center) - Lymphomatoid polyposis

New York (SUNY Stony Brook University) - Angiodysplasia (1); Lymphoid pseudopolyposis (1)

New York (Westchester Medical Center) - Minimal follicular lymphoid hyperplasia

Ohio (St. Elizabeth Health Center) - Mantle cell lymphoma

Oregon (Oregon Health and Science University) - Submucosal lipoma

Pennsylvania (Conemaugh Valley Memorial Hospital) - Features consistent with submucosal lipoma

Pennsylvania (Drexel University College of Medicine) - Peyer patch

Tennessee, Knoxville - Lymphoid polyposis rule out lymphoma

Texas, Crystal Beach - Follicular lymphoma

Texas, Lubbock - Lymphoid polyp

Texas (Scott & White Memorial Hospital) - Lipomatous hypertrophy of ileocecal valve

Washington (Madigan Army Medical Center Residents) - Lymphomatous polyposis

Wisconsin (St. Mary's Hospital) - Benign lymphoid aggregates (Peyer's patch)

Brazil (Federal University of Sao Paulo) - Angiodysplasia

Canada (Pasqua Hospital) - Lymphoid hyperplasia

Canada (University of Sherbrooke) - Angiolipomatosis

Ireland (Mater Hospital) - Intestinal lymphomatous polyposis

Japan (Asahi General Hospital) - Angiodysplasia

Japan (Shizuoka Tokushukai Hospital) - Arteriovenous hemangioma

Puerto Rico (University of Puerto Rico) - Lipomatosis

Spain (Hospital Povisa) - Lymphoid hyperplasia

United Kingdom (John Radcliffe Hospital) - Reactive lymphoid hyperplasia (exclude mantle cell lymphoma)

Case 1 - Diagnosis:

Polypoid/nodular lymphoid hyperplasia, ileum

T-65200, M-72200

Case 1 - References:

Kojima M, Shimizu K, Sameshima S, Saruki N, et al. Focal Lymphoid Hyperplasia of the Terminal Ileum Presenting Mantle Zone Hyperplasia with Clear Cytoplasm. A Report of Three Cases. *Pathol Oncol Res* 2008; 14(3):337-340.

Iacono G, Ravelli A, Di Prima L, et al. Colonic Lymphoid Nodular Hyperplasia in Children. Relationship to Food Hypersensitivity. *Clin Gastroenterol Hepatol* 2007; 5(3):361-366.

Mukhopadhyay S, Harbol T, Floyd FD, et al. Polypoid Nodular Lymphoid Hyperplasia of the Terminal Ileum. *Arch Pathol Lab Med* 2004; 128(10):1186-1187.

Bellanti JA, Zeligs BJ, Malka-Rais J, et al. Abnormalities of Th1 Function in Non-IgE Food Allergy, Celiac Disease, and Ileal Lymphonodular Hyperplasia. A New Relationship? *Ann Allergy Asthma Immunol* 2003; 90:84-89.

Kokkonen J and Karttunen TJ. Lymphonodular Hyperplasia on the Mucosa of the Lower Gastrointestinal Tract in Children. An Indication of Enhanced Immune Response? *J. Pediatr Gastroenterol Nutr* 2002; 34(1):42-46.

Glendale - Villous adenoma
Loma Linda - Angiosarcoma of common bile duct
San Diego (Naval Medical Center) - Ampullary adenoma
Woodland Hills (Woodland Hills Medical Center) - Intraductal papillary carcinoma with invasion
Florida (Naples Pathology Associates) - Pancreatoblastoma with osseous metaplasia
Georgia, Decatur - Intraductal papillary mucinous carcinoma
Illinois (Heartland Regional Medical Center) - Non-invasive papillary carcinoma
Kansas (Coffeyville Regional Medical Center) - Papillary adenoma with high grade dysplasia
Kansas (Peterson Laboratory Services) - Intraductal papillary carcinoma
Louisiana (LSUHSC) - High grade villous papilloma of CBD
Maryland (University of Maryland) - Biliary papillomatosis
Michigan (St. Mary's Hospital) - Bile duct adenoma
New York (Albany Medical Center) - Papillary adenocarcinoma
New York (SUNY Stony Brook University) - Papillary adenocarcinoma (2)
New York (Westchester Medical Center) - Villous adenoma with focal dysplasia/carcinoma in-situ
Ohio (St. Elizabeth Health Center) - Cholangiocarcinoma/bile duct carcinoma
Oregon (Oregon Health and Science University) - Adenoma with high grade dysplasia
Pennsylvania (Conemaugh Valley Memorial Hospital) - Non-invasive papillary adenocarcinoma
Pennsylvania (Drexel University College of Medicine) - Biliary papillomatosis
Tennessee, Knoxville - Papillary adenoma with focal invasive adenocarcinoma
Texas, Crystal Beach - Adenocarcinoma bile duct (papillary)
Texas, Lubbock - Intraductal papillary carcinoma
Texas (Scott & White Memorial Hospital) - Intraductal papillary carcinoma
Washington (Madigan Army Medical Center Residents) - Papillary adenoma of bile duct
Wisconsin (St. Mary's Hospital) - Well-differentiated ductal adenocarcinoma
Brazil (Federal University of Sao Paulo) - Papillary adenocarcinoma
Canada (Pasqua Hospital) - Adenocarcinoma arising in an adenoma
Canada (University of Sherbrooke) - Intraductal papillary tumor
Ireland (Mater Hospital) - Intraductal papillary neoplasm of biliary tract
Japan (Asahi General Hospital) - Papillary adenocarcinoma of common bile duct
Japan (Shizuoka Tokushukei Hospital) - Papillary adenocarcinoma
Puerto Rico (University of Puerto Rico) - Superficially invasive papillary bile duct carcinoma
Spain (Hospital Povisa) - Cholangiocarcinoma, (well-differentiated papillary adenocarcinoma)
United Kingdom (John Radcliffe Hospital) - Adenocarcinoma

Case 2 - Diagnosis:

Adenocarcinoma, common bile duct
 T-58900, M-81403

Case 2 - References:

- Wu TC, Shao YF, Shan Y, et al. Prognostic Implication of Common Bile Duct Infiltration in Adenocarcinoma of the Ampulla of Vater After Pancreaticoduodenectomy. *Zhonghua Zhong Liu Za Zhi* 2008; 30(10):775-778.
 Henson DE, Schwartz AM, Nsouli H, et al. Carcinomas of the Pancreas, Gallbladder, Extrahepatic Bile Ducts, and Ampulla of Vater Share a Field for Carcinogenesis. A Population-Based Study. *Arch Pathol Lab Med* 2009; 133(1):67-71.
 Aparajita R, Gomez D, et al. Papillary Adenoma of the Distal Common Bile Duct Associated with a Synchronous Carcinoma of the Peri-Ampullary Duodenum. *JOP* 9(2):212-215.
 Hirono S, Tani M, et al. A Collision Tumor Composed of Cancers of the Bile Duct and Ampulla of Vater—Immunohistochemical Analysis of a Rare Entity of Double Cancer. *Hepatogastroenterology* 2008; 55(84):861-864.
 Carter RR, Woodall CE, et al. Mixed Ductal-Endocrine Carcinoma of the Pancreas with Synchronous Papillary Carcinoma In-Situ of the Common bile Duct. A Case Report and Literature Review—Synchronous Pancreatic and Bile Duct Tumors. *Am Surg* 2008; 74(4):338-340.

Glendale - Hepatoblastoma
Loma Linda - Infantile hepatocarcinoma
San Diego (Naval Medical Center) - Hepatoblastoma
Woodland Hills (Woodland Hills Medical Center) - Hepatoblastoma with extramedullary hematopoiesis
Florida (Naples Pathology Associates) - Pancreatoblastoma with osseous metaplasia
Georgia, Decatur - Hepatoblastoma
Illinois (Heartland Regional Medical Center) - Hepatoblastoma
Kansas (Coffeyville Regional Medical Center) - Fetal epithelial hepatoblastoma
Kansas (Peterson Laboratory Services) - Hepatoblastoma, epithelial pattern
Louisiana (LSUHSC) - Hepatoblastoma
Maryland (University of Maryland) - Hepatoblastoma, mixed epithelial/mesenchymal
Michigan (St. Mary's Hospital) - Hepatoblastoma
New York (Albany Medical Center) - Hepatoblastoma
New York (SUNY Stony Brook University) - Hepatoblastoma (2)
New York (Westchester Medical Center) - Hepatoblastoma, mixed fetal and embryonal
Ohio (St. Elizabeth Health Center) - Hepatoblastoma
Oregon (Oregon Health and Science University) - Hepatoblastoma
Pennsylvania (Conemaugh Valley Memorial Hospital) - Hepatoblastoma
Pennsylvania (Drexel University College of Medicine) - Hepatoblastoma
Tennessee, Knoxville - Mixed epithelial/mesenchymal hepatoblastoma
Texas, Crystal Beach - Hepatoblastoma
Texas, Lubbock - Hepatoblastoma
Texas (Scott & White Memorial Hospital) - Hepatoblastoma
Washington (Madigan Army Medical Center Residents) - Hepatoblastoma
Wisconsin (St. Mary's Hospital) - Hepatoblastoma
Brazil (Federal University of Sao Paulo) - Mixed fetal-type hepatoblastoma
Canada (Pasqua Hospital) - Hepatoblastoma
Canada (University of Sherbrooke) - Hepatoblastoma
Ireland (Mater Hospital) - Hepatoblastoma, mixed epithelial and mesenchymal type
Japan (Asahi General Hospital) - Hepatoblastoma
Japan (Shizuoka Tokushukei Hospital) - Hepatoblastoma
Puerto Rico (University of Puerto Rico) - Hepatoblastoma
Spain (Hospital Povisa) - Mixed epithelial and mesenchymal hepatoblastoma
United Kingdom (John Radcliffe Hospital) - Hepatoblastoma

Case 3 - Diagnosis:

Hepatoblastoma, liver
T-56000, M-89703

Case 3 - References:

- Iyer VK, Kapila K, Agarwala S, et al. Fine Needle Aspiration Cytology of Hepatoblastoma. Recognition of Subtypes On Cytomorphology. *Acta Cytol* 2005; 49(4):355-364.
- Fasano M, Theise ND, Nalesnik M, et al. Immunohistochemical Evaluation of Hepatoblastomas with Use of the Hepatocyte-Specific Marker, Hepatocyte Paraffin 1, and the Polyclonal Anti-Carcinoembryonic Antigen. *Mod Pathol* 1998; 11(10):934-938.
- Browne M, Sher D, et al. Survival After Liver Transplantation for Hepatoblastoma. A 2-Center Experience. *J Pediatr Surg* 2008; 43(11):1973-1981.
- Catanzarite V, Hilfiker M, et al. Prenatal Diagnosis of Fetal Hepatoblastoma. Case Report and Review of the Literature. *J Ultrasound Med* 2008; 27(7):1095-1098.
- Nagata T, Nakamura M, et al. Cytogenetic Abnormalities in Hepatoblastoma. Report of Two New Cases and Review of the Literature Suggesting Imbalance of Chromosomal Regions on Chromosomes 1, 4, and 12. *Cancer Genet Cytogenet* 2005; 156(1):8-13.

Glendale - Hepatocellular carcinoma
Loma Linda - Hepatocarcinoma, follow hepatitis C
San Diego (Naval Medical Center) - Hepatocellular carcinoma
Woodland Hills (Woodland Hills Medical Center) - Hepatocellular carcinoma
Florida (Naples Pathology Associates) - Hepatocellular carcinoma with clear cell features
Georgia, Decatur - Hepatocellular carcinoma
Illinois (Heartland Regional Medical Center) - Hepatocellular carcinoma
Kansas (Coffeyville Regional Medical Center) - Hepatocellular carcinoma, clear cell variant
Kansas (Peterson Laboratory Services) - Hepatocellular carcinoma, clear cell variant
Louisiana (LSUHSC) - Hepatocellular carcinoma
Maryland (University of Maryland) - Hepatocellular carcinoma, clear cell type
Michigan (St. Mary's Hospital) - Hepatocellular carcinoma
New York (Albany Medical Center) - Hepatocellular carcinoma, clear cell type
New York (SUNY Stony Brook University) - Hepatocellular carcinoma (1); Clear cell type (1)
New York (Westchester Medical Center) - Hepatocellular carcinoma, clear cell type
Ohio (St. Elizabeth Health Center) - Hepatocellular carcinoma/hepatoma
Oregon (Oregon Health and Science University) - Hepatocellular carcinoma
Pennsylvania (Conemaugh Valley Memorial Hospital) - Hepatocellular carcinoma, clear cell variant
Pennsylvania (Drexel University College of Medicine) - Hepatocellular carcinoma
Tennessee, Knoxville - Hepatocellular carcinoma
Texas, Crystal Beach - Hepatocellular carcinoma
Texas, Lubbock - Hepatocellular carcinoma, lamellar type
Texas (Scott & White Memorial Hospital) - Hepatocellular carcinoma
Washington (Madigan Army Medical Center Residents) - Hepatocellular carcinoma, clear cell
Wisconsin (St. Mary's Hospital) - Hepatocellular carcinoma
Brazil (Federal University of Sao Paulo) - Hepatocarcinoma
Canada (Pasqua Hospital) - Hepatocellular carcinoma
Canada (University of Sherbrooke) - Hepatocarcinoma and bile duct hamartoma
Ireland (Mater Hospital) - Hepatocellular carcinoma
Japan (Asahi General Hospital) - Hepatocellular carcinoma
Japan (Shizuoka Tokushukei Hospital) - Hepatocellular carcinoma
Puerto Rico (University of Puerto Rico) - Hepatocellular carcinoma, clear cell variant
Spain (Hospital Povisa) - Liver cell carcinoma, clear cell subtype
United Kingdom (John Radcliffe Hospital) - Clear cell hepatocellular carcinoma

Case 4 - Diagnosis:

Hepatocellular carcinoma, liver
T-56000, M-81703

Case 4 - References:

- Nozaki Y, Kobayashi N, et al. Colonic Metastasis from Hepatocellular Carcinoma. Manifested By Gastrointestinal Bleeding. *Dig Dis Sci* 2008; 53(12):3265-3266.
- 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.
- Ahuja A, Gupta N, et al. Role of CD10 Immunohistochemistry in Differentiating Hepatocellular Carcinoma from Metastatic Carcinoma of the Liver. *Cytopathol* 2008; 19(4):229-235.
- Lam VW, Ng KK, et al. Risk Factors and Prognostic Factors of Local Recurrence After Radio Frequency Ablation of Hepatocellular Carcinoma. *J Am Coll Surg* 2008; 207(1):20-29.
- Newell P, Villanueva A and Llovet JM. Molecular Targeted Therapies in Hepatocellular Carcinoma. From Pre-Clinical Models to Clinical Trials. *Hepatol* 2008; 49(1):1-5.

Glendale - Solitary fibrous tumor
Loma Linda - Angiosarcoma of right colon
San Diego (Naval Medical Center) - Solitary fibrous tumor
Woodland Hills (Woodland Hills Medical Center) - Solitary fibrous tumor
Florida (Naples Pathology Associates) - Solitary fibrous tumor
Georgia, Decatur - Solitary fibrous tumor
Illinois (Heartland Regional Medical Center) - Solitary fibrous tumor
Kansas (Coffeyville Regional Medical Center) - GIST
Kansas (Peterson Laboratory Services) - GIST
Louisiana (LSUHSC) - GIST
Maryland (University of Maryland) - Solitary fibrous tumor
Michigan (St. Mary's Hospital) - Gastrointestinal stromal tumor
New York (Albany Medical Center) - Solitary fibrous tumor
New York (SUNY Stony Brook University) - Solitary fibrous tumor (2)
New York (Westchester Medical Center) - Solitary fibrous tumor
Ohio (St. Elizabeth Health Center) - GIST
Oregon (Oregon Health and Science University) - Solitary fibrous tumor
Pennsylvania (Conemaugh Valley Memorial Hospital) - Solitary fibrous tumor/CD117 negative GIST
Pennsylvania (Drexel University College of Medicine) - Malignant solitary fibrous tumor
Tennessee, Knoxville - Solitary fibrous tumor
Texas, Crystal Beach - Gastrointestinal stromal tumor
Texas, Lubbock - Solitary fibrous tumor
Texas (Scott & White Memorial Hospital) - Solitary fibrous tumor
Washington (Madigan Army Medical Center Residents) - Solitary fibrous tumor
Wisconsin (St. Mary's Hospital) - Solitary fibrous tumor
Brazil (Federal University of Sao Paulo) - Solitary fibrous tumor
Canada (Pasqua Hospital) - Solitary fibrous tumor
Canada (University of Sherbrooke) - Solitary fibrous tumor
Ireland (Mater Hospital) - Solitary fibrous tumor
Japan (Asahi General Hospital) - Solitary fibrous tumor
Japan (Shizuoka Tokushukei Hospital) - Gastrointestinal stromal tumor
Puerto Rico (University of Puerto Rico) - Solitary fibrous tumor/inflammatory fibroid polyp
Spain (Hospital Povisa) - Gastrointestinal stromal tumor
United Kingdom (John Radcliffe Hospital) - Solitary fibrous tumor

Case 5 - Diagnosis:

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

Director's note: Note the positive staining for CD34 and the negative staining for C-kit. (drc)

Case 5 - References:

- Yi B, Bewtra C, Yussek K, et al. Giant Pelvic Solitary Fibrous Tumor Obstructing Intestinal and Urinary Tract. A Case Report and Literature Review. *Am Surg* 2007; 73(5):478-480.
- Awasthi R, O'Neill JK, et al. Biphasic Solitary Fibrous Tumor. A Report of Two Cases with Epithelioid Features. *Virchows Arch* 2006; 448(3):306-310.
- Gengler C and Guillou L. Solitary Fibrous Tumor and Haemangiopericytoma. Evolution of a Concept. *Histopathol* 2006; 48(1):63-74.
- Greenson JK. Gastrointestinal Stromal Tumors and Other Mesenchymal Lesions of the Gut. *Mod Pathol* 2003; 16(4):366-375.
- Nakatani T, Tamada S, Iwai T, et al. Solitary Fibrous Tumor in the Retroperitoneum. A Case with Infiltrative Growth. *Hinyokika Kyo* 2002; 48(10):637-641.

Glendale - Infiltrating ductal carcinoma
Loma Linda - Adenocarcinoma of head of pancreas
San Diego (Naval Medical Center) - Ductal adenocarcinoma
Woodland Hills (Woodland Hills Medical Center) - Adenocarcinoma
Florida (Naples Pathology Associates) - Pancreatic ductal adenocarcinoma
Georgia, Decatur - Ductal adenocarcinoma of the pancreas
Illinois (Heartland Regional Medical Center) - Invasive ductal adenocarcinoma
Kansas (Coffeyville Regional Medical Center) - Intraductal papillary muinous tumor, borderline
Kansas (Peterson Laboratory Services) - Ductal adenocarcinoma, well-differentiated
Louisiana (LSUHSC) - Pancreatic adenocarcinoma
Maryland (University of Maryland) - Pancreatic ductal adenocarcinoma, well-differentiated
Michigan (St. Mary's Hospital) - Adenocarcinoma, ductal type
New York (Albany Medical Center) - Pancreatic adenocarcinoma
New York (SUNY Stony Brook University) - Well-differentiated duct adenocarcinoma
New York (Westchester Medical Center) - Intraductal and infiltrating pancreatic adenocarcinoma with chronic pancreatitis
Ohio (St. Elizabeth Health Center) - Pancreatic adenocarcinoma, invasive
Oregon (Oregon Health and Science University) - Ductal adenocarcinoma of the pancreas
Pennsylvania (Conemaugh Valley Memorial Hospital) - Ductal adenocarcinoma
Pennsylvania (Drexel University College of Medicine) - Invasive ductal adenocarcinoma of pancreas
Tennessee, Knoxville - Pancreatic ductal carcinoma
Texas, Crystal Beach - Adenocarcinoma pancreatic ductal
Texas, Lubbock - Pleomorphic neurofibroma
Texas (Scott & White Memorial Hospital) - Pancreatic ductal adenocarcinoma
Washington (Madigan Army Medical Center Residents) - Pancreatic adenocarcinoma
Wisconsin (St. Mary's Hospital) - Ductal adenocarcinoma, pancreas
Brazil (Federal University of Sao Paulo) - Ductal adenocarcinoma
Canada (Pasqua Hospital) - Invasive well-differentiated adenocarcinoma
Canada (University of Sherbrooke) - Ductal adenocarcinoma
Ireland (Mater Hospital) - Pancreatic ductal carcinoma
Japan (Asahi General Hospital) - Ductal adenocarcinoma of pancreas
Japan (Shizuoka Tokushukei Hospital) - Ductal adenocarcinoma
Puerto Rico (University of Puerto Rico) - Invasive ductal adenocarcinoma
Spain (Hospital Povisa) - Ductal adenocarcinoma
United Kingdom (John Radcliffe Hospital) - Adenocarcinoma

Case 6 - Diagnosis:

Ductal adenocarcinoma, pancreas
 T-59000, M-81403

Case 6 - References:

- Baierlein SA, Wistop A, Looser C, et al. Primary Pancreatic Neoplasia or Metastasis from Colon Carcinoma? *Acta Gastroenterol Belg* 2008; 71(4):401-408.
 Sanada Y, Yoshida K, Itoh M, et al. Invasive Ductal Carcinoma of the Pancreas Showing Exophytic Growth. *Hepatobiliary Pancreat Dis Int* 2009; 8(1):97-102.
 Pine JK, Fusai KG, Young R, et al. Serum C-Reactive Protein Concentration and the Prognosis of Ductal Adenocarcinoma of the Head of Pancreas. *Eur J Surg Oncol* 2009; 35(6):605-610.
 Adsay NV, Basturk O, Altinel D, et al. The Number of Lymph Nodes Identified in a Simple Pancreatoduodenectomy Specimen. Comparison of Conventional vs. Orange-Peeling Approach in Pathologic Assessment. *Mod Pathol* 2009; 22(1):107-112.
 Westgaard A, Tafjord S, Farstad IN, et al. Pancreatobiliary Versus Intestinal Histologic Type of Differentiation is an Independent Prognostic Factor in Resected Periapillary Adenocarcinoma. *BMC Cancer* 2008; 8:170.

Glendale - Pancreatic endocrine tumor
Loma Linda - Carcinoid tumor, head of pancreas
San Diego (Naval Medical Center) - Pancreatic endocrine neoplasm
Woodland Hills (Woodland Hills Medical Center) - Endocrine neoplasm
Florida (Naples Pathology Associates) - Pancreatic neuroendocrine tumor
Georgia, Decatur - Pancreatic endocrine tumor
Illinois (Heartland Regional Medical Center) - Islet cell tumor (pancreatic endocrine tumor)
Kansas (Coffeyville Regional Medical Center) - Islet cell tumor
Kansas (Peterson Laboratory Services) - Well-differentiated pancreatic endocrine carcinoma
Louisiana (LSUHSC) - Islet cell carcinoma/neuroendocrine tumor
Maryland (University of Maryland) - Pancreatic endocrine carcinoma
Michigan (St. Mary's Hospital) - Pancreatic endocrine neoplasm
New York (Albany Medical Center) - Pancreatic endocrine neoplasm
New York (SUNY Stony Brook University) - Endocrine neoplasm (1); Pancreatic endocrine neoplasm (1)
New York (Westchester Medical Center) - Well-differentiated neuroendocrine carcinoma
Ohio (St. Elizabeth Health Center) - Islet cell tumor/pancreatic endocrine tumor
Oregon (Oregon Health and Science University) - Endocrine tumor
Pennsylvania (Conemaugh Valley Memorial Hospital) - Malignant neuroendocrine tumor
Pennsylvania (Drexel University College of Medicine) - Pancreatic endocrine tumor
Tennessee, Knoxville - Carcinoid tumor
Texas, Crystal Beach - Carcinoid tumor
Texas, Lubbock - Islet cell tumor
Texas (Scott & White Memorial Hospital) - Pancreatic neuroendocrine tumor
Washington (Madigan Army Medical Center Residents) - Pancreatic endocrine neoplasm
Wisconsin (St. Mary's Hospital) - Pancreatic endocrine tumor
Brazil (Federal University of Sao Paulo) - Pancreatic endocrine neoplasia
Canada (Pasqua Hospital) - Pancreatic endocrine neoplasm
Canada (University of Sherbrooke) - Neuroendocrine carcinoma, well-differentiated
Ireland (Mater Hospital) - Pancreatic carcinoid tumor
Japan (Asahi General Hospital) - Well-differentiated endocrine tumor
Japan (Shizuoka Tokushukei Hospital) - Neuroendocrine carcinoma
Puerto Rico (University of Puerto Rico) - Well-differentiated pancreatic endocrine carcinoma
Spain (Hospital Povisa) - Well-differentiated pancreatic endocrine neoplasm
United Kingdom (John Radcliffe Hospital) - Pancreas, well-differentiated neuroendocrine carcinoma

Case 7 - Diagnosis:

Pancreatic endocrine carcinoma/well-differentiated neuroendocrine carcinoma
T-59000, M-80103

Case 7 - References:

Gu M, Ghafari S, Lin F, et al. Cytological Diagnosis of Endocrine Tumors of the Pancreas By Endoscopic Ultrasound-Guided Fine-Needle Aspiration Biopsy. *Diagn Cytopathol* 2005; 32(4):204-210.
Frankel WL. Update On Pancreatic Endocrine Tumors. *Lab Med* 2006; 130 (7):963-966.
La Rosa S, Rigoli E, et al. Prognostic and Biological Significance of Cytokeratin 19 in Pancreatic Endocrine Tumors. *Histopathol* 2007; 50(5):597-606.
Dim DC, Nugent SL, Darwin P, et al. Metastatic Merkel Cell Carcinoma of the Pancreas Mimicking Primary Pancreatic Endocrine Tumor Diagnosed By Endoscopic Ultrasound-Guided Fine Needle Aspiration Cytology. A Case Report. *Acta Cytol* 2009; 53(2):223-228.

Glendale - Carcinoid
Loma Linda - Ileum, infiltrating adenocarcinoma (carcinoid type)
San Diego (Naval Medical Center) - Carcinoid

Woodland Hills (Woodland Hills Medical Center) - Carcinoid (well-differentiated neuroendocrine neoplasm)
Florida (Naples Pathology Associates) - Malignant carcinoid tumor
Georgia, Decatur - Well-differentiated neuroendocrine carcinoma (carcinoid tumor)
Illinois (Heartland Regional Medical Center) - Carcinoid
Kansas (Coffeyville Regional Medical Center) - Carcinoid tumor
Kansas (Peterson Laboratory Services) - Well-differentiated neuroendocrine carcinoma
Louisiana (LSUHSC) - Carcinoid
Maryland (University of Maryland) - Well-differentiated neuroendocrine carcinoma
Michigan (St. Mary's Hospital) - Carcinoid
New York (Albany Medical Center) - Low grade malignant potential (grade III) neuroendocrine tumor
New York (SUNY Stony Brook University) - Carcinoid (2)
New York (Westchester Medical Center) - Carcinoid tumor
Ohio (St. Elizabeth Health Center) - Carcinoid tumor, small intestine
Oregon (Oregon Health and Science University) - Carcinoid/low grade neuroendocrine tumor
Pennsylvania (Conemaugh Valley Memorial Hospital) - Carcinoid tumor
Pennsylvania (Drexel University College of Medicine) - Neuroendocrine neoplasm
Tennessee, Knoxville - Carcinoid tumor
Texas, Crystal Beach - Adenocarcinoma neuroendocrine
Texas, Lubbock - Carcinoid tumor
Texas (Scott & White Memorial Hospital) - Carcinoid
Washington (Madigan Army Medical Center Residents) - Carcinoid
Wisconsin (St. Mary's Hospital) - Carcinoid tumor, small bowel
Brazil (Federal University of Sao Paulo) - Neuroendocrine carcinoma
Canada (Pasqua Hospital) - Carcinoid
Canada (University of Sherbrooke) - Neuroendocrine carcinoma, well-differentiated
Ireland (Mater Hospital) - Intestinal carcinoid tumor
Japan (Asahi General Hospital) - Well-differentiated endocrine tumor
Japan (Shizuoka Tokushukei Hospital) - Carcinoid tumor
Puerto Rico (University of Puerto Rico) - Well-differentiated neuroendocrine carcinoma
Spain (Hospital Povisa) - Carcinoid tumor (insular-classic pattern)
United Kingdom (John Radcliffe Hospital) - Small bowel, well-differentiated neuroendocrine tumor

Case 8 - Diagnosis:

Carcinoid tumor, ileum, metastatic to lymph nodes
 T-64000, M-82403

Case 8 - References:

Marzocca G, Caputo E, Varrone F, et al. Intestinal Occlusion By Ileal Carcinoid. *Ann Ital Chir* 2008; 79(6):457-461.
 Bellutti M, Fry LC, Schmitt J, et al. Detection of Neuroendocrine Tumors of the Small Bowel By Double Balloon Enteroscopy. *Dig Dis Sci* 2009; 54(5):1050-1058.
 Cunningham, JL, Grimelius L, Sundin A, et al. Malignant Ileocecal Serotonin-Producing Carcinoid Tumors. The Presence of a Solid Growth Pattern and/or Ki67 Index Above 1% Identifies Patients with a Poorer Prognosis. *Acta Oncol* 2007; 46(6):747-756.
 Levy AD and Sobin LH. From the Archives of the AFIP. Gastrointestinal Carcinoids. Imaging Features with Clinicopathologic Comparison. *Radiographics* 2007; 27(1):237-257.
 Yantiss RK, Odze RD, Farraye FA, et al. Solitary Versus Multiple Carcinoid Tumors of the Ileum. A Clinical and Pathologic Review of 68 Cases. *Am J Surg Pathol* 2003; 27(6):811-817.

Case No. 9, Accession No. 30911

April 2009

Glendale - Poorly differentiated carcinoma
Loma Linda - Infiltrating scirrhous carcinoma of parotid
San Diego (Naval Medical Center) - Carcinoma ex-pleomorphic adenoma
Woodland Hills (Woodland Hills Medical Center) - Salivary duct carcinoma (maybe carcinoma ex-pleomorphic adenoma in background)
Florida (Naples Pathology Associates) - Carcinoma ex-pleomorphic adenoma
Georgia, Decatur - Salivary duct carcinoma

Illinois (Heartland Regional Medical Center) - Carcinoma (adenocarcinoma) ex-pleomorphic adenoma
Kansas (Coffeyville Regional Medical Center) - Carcinoma ex-mixed tumor
Kansas (Peterson Laboratory Services) - Poorly differentiated salivary duct carcinoma
Louisiana (LSUHSC) - Pleomorphic adenoma
Maryland (University of Maryland) - Carcinoma ex-pleomorphic adenoma
Michigan (St. Mary's Hospital) - Pleomorphic adenoma
New York (Albany Medical Center) - Carcinoma ex-pleomorphic adenoma
New York (SUNY Stony Brook University) - Carcinoma ex-pleomorphic adenoma (1) Mucoepidermoid carcinoma in-situ ex-pleomorphic adenoma (1)
New York (Westchester Medical Center) - Carcinoma arising in associated with sclerosing polycystic adenosis
Ohio (St. Elizabeth Health Center) - Mucoepidermoid carcinoma, carcinoma, ex-pleomorphic adenoma
Oregon (Oregon Health and Science University) - Mucoepidermoid carcinoma
Pennsylvania (Conemaugh Valley Memorial Hospital) - Carcinoma ex-pleomorphic adenoma
Pennsylvania (Drexel University College of Medicine) - Mucoepidermoid carcinoma
Tennessee, Knoxville - Carcinoma ex-pleomorphic adenoma
Texas, Crystal Beach - Adenocarcinoma oncocytic ex-pleomorphic adenoma
Texas, Lubbock - Mucoepidermoid carcinoma
Texas (Scott & White Memorial Hospital) - Carcinoma ex-pleomorphic adenoma
Washington (Madigan Army Medical Center Residents) - Carcinoma ex-pleomorphic adenoma
Wisconsin (St. Mary's Hospital) - Carcinoma ex-pleomorphic adenoma
Brazil (Federal University of Sao Paulo) - Salivary duct carcinoma ex-pleomorphic adenoma
Canada (Pasqua Hospital) - Pleomorphic adenoma with infarction
Canada (University of Sherbrooke) - Pleomorphic adenoma
Ireland (Mater Hospital) - Carcinoma ex-pleomorphic adenoma
Japan (Asahi General Hospital) - Carcinoma ex-pleomorphic adenoma
Japan (Shizuoka Tokushukei Hospital) - Sclerosing mucoepidermoid carcinoma
Puerto Rico (University of Puerto Rico) - Hyalinized mucoepidermoid carcinoma/mixed malignant tumor ex-pleomorphic adenoma
Spain (Hospital Povisa) - Carcinoma ex-pleomorphic adenoma
United Kingdom (John Radcliffe Hospital) - Carcinoma ex-pleomorphic adenoma

Case 9 - Diagnosis:

Carcinoma ex-pleomorphic adenoma, parotid
 T-10180, M-81403

Case 9 - References:

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 Roier E, Nordkvist A, Strom AK, et al. Translocation, Deletion/Amplification, and Expression of HMGIC and MDM2 in a Carcinoma Ex-Pleomorphic Adenoma. *Am J Pathol* 2002; 160(2):433-440.
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Glendale - Squamous cell carcinoma
Loma Linda - Lobular carcinoma of parotid
San Diego (Naval Medical Center) - Carcinosarcoma
Woodland Hills (Woodland Hills Medical Center) - Carcinosarcoma (sarcomatoid carcinoma)
Florida (Naples Pathology Associates) - Spindle cell squamous cell carcinoma
Georgia, Decatur - Mucoepidermoid carcinoma
Illinois (Heartland Regional Medical Center) - Invasive squamous cell carcinoma

Kansas (Coffeyville Regional Medical Center) - Mucoepidermoid carcinoma
Kansas (Peterson Laboratory Services) - Squamous cell carcinoma, metastatic
Louisiana (LSUHSC) - Parotid squamous cell carcinoma
Maryland (University of Maryland) - Myoepithelial carcinoma
Michigan (St. Mary's Hospital) - Mucoepidermoid carcinoma, high grade
New York (Albany Medical Center) - Primary squamous cell carcinoma
New York (SUNY Stony Brook University) - Sarcomatoid carcinoma (1); Spindle cell squamous carcinoma with fasciitis (1)
New York (Westchester Medical Center) - Sarcomatoid carcinoma ex-pleomorphic adenoma
Ohio (St. Elizabeth Health Center) - Squamous cell carcinoma
Oregon (Oregon Health and Science University) - Spindle squamous cell carcinoma
Pennsylvania (Conemaugh Valley Memorial Hospital) - Mucoepidermoid carcinoma, high grade
Pennsylvania (Drexel University College of Medicine) - Mucoepithelial carcinoma
Tennessee, Knoxville - Mucoepidermoid carcinoma
Texas, Crystal Beach - Carcinoma squamous spindly (sarcomatoid)
Texas, Lubbock - Carcinoma ex-pleomorphic adenoma
Texas (Scott & White Memorial Hospital) - Sarcomatoid carcinoma
Washington (Madigan Army Medical Center Residents) - Squamous cell carcinoma
Wisconsin (St. Mary's Hospital) - Squamous cell carcinoma
Brazil (Federal University of Sao Paulo) - Squamous cell carcinoma
Canada (Pasqua Hospital) - Mucoepidermoid carcinoma
Canada (University of Sherbrooke) - Squamous cell carcinoma
Ireland (Mater Hospital) - Sarcomatoid squamous cell carcinoma
Japan (Asahi General Hospital) - Myoepithelial carcinoma
Japan (Shizuoka Tokushukei Hospital) - Myoepithelial carcinoma
Puerto Rico (University of Puerto Rico) - Lymphoepithelioma-like carcinoma
Spain (Hospital Povisa) - Squamous cell carcinoma (sarcomatoid)
United Kingdom (John Radcliffe Hospital) - Parotid, poorly differentiated carcinoma

Case 10 - Diagnosis:

Spindle squamous (sarcomatoid) carcinoma, parotid
 T-55100, M-80703

Case 10 - References:

Huang SF, Chen IH, et al. Sarcomatoid Carcinoma of the Parotid Gland with Apparent Metastasis of Epidermoid Elements to Cervical Lymph Nodes. *Acta Otolaryngol* 2006; 126(6):667-671.
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