



CALIFORNIA
TUMOR TISSUE REGISTRY

GASTROINTESTINAL PATHOLOGY

Minutes – Subscription A

April 2014



SUGGESTED READING (General Topics from Recent Literature):

- Bhatia A, Kumar Y. Relevance of Microscopic Indicators of Chromosomal Instability in Routine Reporting of Malignancies. *Diagn Cytopathol* 2013; (June 11): epub ahead of print.
- Gerami P, Scolyer RA, et al. Risk Assessment for Atypical Spitzoid Melanocytic Neoplasms Using FISH to Identify Chromosomal Copy Number Aberrations. *Am J Surg Pathol* 2013;37 (May):676-684.
- Mochel MC, Arakaki RY, et al. Cutaneous Calciphylaxis: A Retrospective Histopathologic Evaluation. *Am J Dermatopathol* 2013;35 (July):582-586.
- Zakharov V, Ren B, et al. Diagnostic Value of HMGAs, p53 and B-Catenin in Discriminating Adenocarcinoma From Adenoma or Reactive Atypia in Ampulla and Common Bile Duct Biopsies. *Histopathology* 2013;62 (April): 778-787.
- Tayal S, Kim FJ, et al. Histopathologic Findings of Small Renal Tumor Biopsies Performed Immediately After Cryoablation Therapy: A Retrospective Study of 50 Cases. *Am J Clin Pathol* 2014;141 (Jan): 35-42.

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 April 2014

Case 1:

Mesenteric fibromatosis, peri-colonic

Case 2:

Lymphoplasmacytic sclerosing pancreatitis (IgG4 related disease)

Case 3:

Lymphoepithelial cyst, pancreas

Case 4:

Microcystic serous cystadenoma, pancreas

Case 5:

Solid pseudopapillary neoplasm, pancreas

Case 6:

Acinar cell carcinoma, pancreas

Case 7:

Hepatoblastoma, liver

Case 8:

Hepatocellular carcinoma, clear cell variant, liver

Case 9:

Mucinous adenocarcinoma with signet ring features, colon

Case 10:

Gastrointestinal stromal tumor, GIST, spindle cell type, stomach

Alameda (Alameda County Medical Center) - Fibromatosis (5)
Bishop (Northern Inyo Hospital) - Leiomyoma
Fontana (Kaiser Permanente) - Fibromatosis
Hayward-Fremont (St. Rose Hospital) - Mesenteric fibromatosis
Long Beach (Long Beach VA) - Gastrointestinal stromal tumor (GIST)
San Diego (Naval Medical Center) - Fibromatosis
Santa Barbara (Miramonte Laboratory) - Gastrointestinal stromal tumor
Arkansas (Associated Pathologists Laboratory) - Gastrointestinal stromal tumor
Connecticut (Danbury Hospital) - Fibromatosis
Delaware (Armed Forces Medical Examiner System) - Favor fibromatosis
Florida (Florida Atlantic University) - Desmoid tumor involving the colon
Florida (GastroEnterology Associates of Ocala) - Leiomyoma vs GIST
Georgia, Atlanta - Fibromatosis
Georgia (Wellstar Kennestone Hospital) - Fibromatosis vs GIST vs leiomyoma (4)
Illinois (Heartland Regional Medical Center) - Spindle cell neoplasm, favor intra-abdominal fibromatosis
Illinois, Oak Brook - Abdominal fibromatosis
Kansas (Peterson Laboratory Services) - Fibromatosis
Maryland (Walter Reed National Military Medical Center) - Fibromatosis
Massachusetts (University of Massachusetts Residents) - Gastrointestinal stromal tumor
Michigan (University of Michigan) - Desmoid fibromatosis
Michigan (William Beaumont Hospital) - Desmoid tumor
Minnesota (Fairview Ridges Hospital) - Fibromatosis
Nebraska (Creighton University Medical Center) - Fibromatosis
New York (Mount-Sinai Roosevelt Hospital) - Leiomyoma rule out GIST
North Carolina (Eastern Carolina Pathology) - Fibromatosis
Ohio (Summa Hlth System) - Fibromatosis
Pennsylvania (Lehigh Valley Hospital) - GIST vs fibromatosis
Puerto Rico (University of Puerto Rico) - Desmoid tumor
South Carolina (MUSC Residents) - Fibromatosis (desmoid tumor)
Texas (Anderson Cancer Center) - Desmoid
Texas, Crystal Beach - Hemangioma
Texas, Lubbock - Gastrointestinal stromal tumor
Washington (Seattle VAMC) - Benign stromal cell tumor, leiomyoma
Wisconsin, Madison - Fibromatosis
Wisconsin (Medical Assessment and Consultation, S.C.) - Abdominal fibromatosis
Australia (Royal Hobart Hospital) - Abdominal fibromatosis
Canada (Pasqua Hospital) - Fibromatosis
Australia (Royal Prince Alfred Hospital) - Desmoid tumor
Ireland (Bon Secours Hospital) - Leiomyoma
Ireland (Kerry General Hospital) - Gastrointestinal stromal tumor
Ireland (Mayo General Hospital) - Sclerosing lymphocytic pancreatitis
Japan (Asahi General Hospital) - Gastrointestinal stromal tumor
Japan, Tokyo - Fibromatosis
Japan (University of Yamanashi) - Gastrointestinal stromal tumor
Japan (Wakayama Medical University) - Mesenteric fibromatosis
Oman (Khoula Hospital) - Fibromatosis
Saudi Arabia (King Khalid University Hospital) - Fibromatosis
Singapore (KTPH) - Fibromatosis
Spain (Hospital Xeral de Vigo) - Fibromatosis
United Kingdom (John Radcliffe Hospital) - Fibromatosis

Case 1 - Diagnosis:

Mesenteric fibromatosis, peri-colonic

Case 1 - References:

Mesenteric fibromatosis mimicking a gastrointestinal stromal tumor.

Conn Med 2010; Apr;74(4): p197-200.

McCormack D; Kesha K, et al.

Mesenteric desmoid tumour masquerading as a fat-containing cystic mass.

Br J Radiol 2010; Oct;83(994): pe200-3.

Tan CH; Pua U, et al.

A giant mesenteric fibromatosis case presenting with mechanical intestinal obstruction and successfully resected with partial duodeno-jejunectomy and right hemicolectomy. *Clinics* (Sao Paulo) 2010;65(1): p110-3.

Polat C; Aktepe F, et al.

Mesenteric fibromatosis in a young girl without familial adenomatous polyposis.

J Pediatr Surg 2005; May;40(5): pe33-6.

Huerta S; Heubner DR; Marcus DR.

Mesenteric fibromatosis with involvement of the gastrointestinal tract. A GIST simulator: a study of 25 cases.

Am J Clin Pathol 2004; Jan;121(1): p93-8.

Rodriguez JA; Guarda LA; Rosai J.

Aggressive fibromatosis (desmoid tumors): definition, occurrence, pathology, diagnostic problems, clinical behavior, genetic background.

Pol J Pathol 2006;;57(1): p5-15.

Ferenc T; Sygut J, et al.

Case No. 2, Accession No. 31609

April 2014

Alameda (Alameda County Medical Center) - Pancreatic endocrine neoplasm with background inflammation (chronic pancreatitis) and fibrosis (5)

Bishop (Northern Inyo Hospital) - Carcinoid and islet cell hyperplasia

Fontana (Kaiser Permanente) - Autoimmune pancreatitis (IgG4 related)

Hayward-Fremont (St. Rose Hospital) - Neuroendocrine tumor, pancreas

Long Beach (Long Beach VA) - Chronic pancreatitis with islet cell hyperplasia

San Diego (Naval Medical Center) - Autoimmune pancreatitis

Santa Barbara (Miramonte Laboratory) - Pancreatitis IgG4

Arkansas (Associated Pathologists Laboratory) - Endocrine ?adenoma

Connecticut (Danbury Hospital) - IgG4 pancreatitis

Delaware (Armed Forces Medical Examiner System) - Pancreatic endocrine neoplasm, chronic pancreatitis

Florida (Florida Atlantic University) - Well-differentiated neuroendocrine tumor

Florida (GastroEnterology Associates of Ocala) - Inflammatory pseudotumor (chronic pancreatitis)

Georgia, Atlanta - Pancreatic neuroendocrine tumor

Georgia (Wellstar Kennestone Hospital) - Pancreatic neuroendocrine tumor (4)

Illinois (Heartland Regional Medical Center) - Chronic pancreatitis and islet cell microadenoma

Illinois, Oak Brook - Lymphoplasmacytic sclerosing pancreatitis

Kansas (Peterson Laboratory Services) - Autoimmune pancreatitis

Maryland (Walter Reed National Military Medical Center) - Well-differentiated pancreatic endocrine tumor

Massachusetts (University of Massachusetts Residents) - Lymphoplasmacytic sclerosing pancreatitis (IgG4 related)

Michigan (University of Michigan) - Autoimmune pancreatitis

Michigan (William Beaumont Hospital) - Autoimmune pancreatitis/lymphoplasmacytic sclerosing pancreatitis

Minnesota (Fairview Ridges Hospital) - Pancreatic endocrine tumor

Nebraska (Creighton University Medical Center) - Well-differentiated PNET

New York (Mount-Sinai Roosevelt Hospital) - Neuroendocrine tumor in a background of chronic pancreatitis

North Carolina (Eastern Carolina Pathology) - Well-differentiated neuroendocrine neoplasm

Ohio (Summa Hlth System) - Autoimmune pancreatitis

Pennsylvania (Lehigh Valley Hospital) - Islet cell tumor

Puerto Rico (University of Puerto Rico) - Lymphoplasmacytic sclerosing pancreatitis
South Carolina (MUSC Residents) - Well-differentiated neuroendocrine tumor
Texas (Anderson Cancer Center) - Carcinoid
Texas, Crystal Beach - Extranodal lymphoma (marginal zone)
Texas, Lubbock - Well-differentiated neuroendocrine
Washington (Seattle VAMC) - Chronic pancreatitis
Wisconsin, Madison - Pancreatic neuroendocrine tumor
Wisconsin (Medical Assessment and Consultation, S.C.) - Chronic pancreatitis with fibrosis
Australia (Royal Hobart Hospital) - Chronic pancreatitis with neuroendocrine hyperplasia
Canada (Pasqua Hospital) - Autoimmune pancreatitis
Australia (Royal Prince Alfred Hospital) - Chronic inflammatory pancreatitis with atrophy (IgG4 disease)
Ireland (Bon Secours Hospital) - Well-differentiated pancreatic endocrine neoplasm
Ireland (Kerry General Hospital) - Pancreatic endocrine tumor
Ireland (Mayo General Hospital) - Intrapancreatic accessory spleen
Japan (Asahi General Hospital) - Reactive fibroinflammatory pseudotumor
Japan, Tokyo - Chronic pancreatitis with gastrinoma
Japan (University of Yamanashi) - Autoimmune pancreatitis
Japan (Wakayama Medical University) - Neuroendocrine tumor, G1 and autoimmune pancreatitis
Oman (Khoula Hospital) - Chronic pancreatitis
Saudi Arabia (King Khalid University Hospital) - Lymphoplasmacytic sclerosing chronic pancreatitis
Singapore (KTPH) - Pancreatic neuroendocrine tumor
Spain (Hospital Xeral de Vigo) - Lymphoplasmacytic sclerosing pancreatitis (IgG4 related disease)
United Kingdom (John Radcliffe Hospital) - Chronic pancreatitis IgG4 disease

Case 2 - Diagnosis:

Lymphoplasmacytic sclerosing pancreatitis (IgG4 related disease)

Consultation: Dr. Lester Thompson: “IgG4 lymphoplasmacytic sclerosing pancreatitis, autoimmune pancreatitis”

Case 2 - References:

Clinical and radiologic resolution of IgG 4 normal, nonoperatively diagnosed lymphoplasmacytic sclerosing pancreatitis (LPSP) after initiation of steroid therapy.

J Gastrointest Surg 2007; Sep;11(9): p1194-6.

Behrman SW; Moinuddin SM; Gravenor DS.

Lymphoplasmacytic sclerosing pancreatitis is a pancreatic lesion of IgG4-related systemic disease.

Am J Surg Pathol 2004; Aug;28(8): p1114.

Kamisawa T; Funata N; Hayashi Y.

Autoimmune pancreatitis: unveiling a hidden entity.

Arch Surg 2005; Nov;140(11): p1104-7.

Wayne M; Delman KA, et al.

Lymphoplasmacytic sclerosing (autoimmune) pancreatitis.

Semin Diagn Pathol 2004; Nov;21(4): p237-46.

Klimstra DS; Adsay NV.

Autoimmune pancreatitis.

Scand J Gastroenterol 2009; 44(12): p1391-407.

Detlefsen S; Drewes AM.

IgG4-related sclerosing disease: a critical appraisal of an evolving clinicopathologic entity.

Adv Anat Pathol 2010; Sep;17(5): p303-32.

Cheuk W; Chan JK.

Immunoglobulin G4-related sclerosing cholangitis: pathologic features and histologic mimics.

Semin Diagn Pathol 2012; Nov;29(4): p205-11.

Zen Y; Nakanuma Y; Portmann B.

Fine needle aspirate of autoimmune pancreatitis (lymphoplasmacytic sclerosing pancreatitis): cytomorphologic characteristics and clinical correlates.

Acta Cytol 2012; 56(3): p228-32.

Holmes BJ; Hruban RH, et al.

Case No. 3, Accession No. 31614

April 2014

Alameda (Alameda County Medical Center) - Lymphoepithelial cyst (5)
Bishop (Northern Inyo Hospital) - Dermoid cyst
Fontana (Kaiser Permanente) - Dermoid cyst
Hayward-Fremont (St. Rose Hospital) - Lymphoepithelial cyst
Long Beach (Long Beach VA) - Lymphoepithelial cyst
San Diego (Naval Medical Center) - Epidermoid cyst of accessory spleen
Santa Barbara (Miramonte Laboratory) - Epidermoid cyst
Arkansas (Associated Pathologists Laboratory) - Lymphoepithelial cyst
Connecticut (Danbury Hospital) - Lymphoepithelial cyst
Delaware (Armed Forces Medical Examiner System) - Lymphoepithelial cyst
Florida (Florida Atlantic University) - Lymphoepithelial cyst of the pancreas
Florida (GastroEnterology Associates of Ocala) - Cystic teratoma and spleen
Georgia, Atlanta - Lymphoepithelial cyst
Georgia (Wellstar Kennestone Hospital) - Lymphoepithelial cyst (3) vs. benign squamous like cyst (1)
Illinois (Heartland Regional Medical Center) - Dermoid cyst
Illinois, Oak Brook - Splenic dermoid cyst
Kansas (Peterson Laboratory Services) - Epidermoid cyst
Maryland (Walter Reed National Military Medical Center) - Dermoid cyst
Massachusetts (University of Massachusetts Residents) - Lymphoepithelial cyst
Michigan (University of Michigan) - Lymphoepithelial cyst
Michigan (William Beaumont Hospital) - Lymphoepithelial cyst
Minnesota (Fairview Ridges Hospital) - Lymphoepithelial cyst
Nebraska (Creighton University Medical Center) - Lymphoepithelial cyst
New York (Mount-Sinai Roosevelt Hospital) - Lymphoepithelial cyst, pancreas
North Carolina (Eastern Carolina Pathology) - Dermoid cyst
Ohio (Summa Hlth System) - Lymphoepithelial cyst
Pennsylvania (Lehigh Valley Hospital) - Lymphoepithelial cyst of pancreas
Puerto Rico (University of Puerto Rico) - Epidermoid cyst with ectopic spleen in pancreas
South Carolina (MUSC Residents) - Lymphoepithelial cyst
Texas (Anderson Cancer Center) - Dermoid cyst
Texas, Crystal Beach - Dermoid cyst with splenic tissue (adjacent)
Texas, Lubbock - Epidermoid cyst
Washington (Seattle VAMC) - Benign squamous lined cyst
Wisconsin, Madison - Dermoid cyst
Australia (Royal Hobart Hospital) - Probable epithelial cyst of spleen, lining of cyst deficient
Canada (Pasqua Hospital) - Dermoid cyst
Australia (Royal Prince Alfred Hospital) - Epithelial cyst
Ireland (Bon Secours Hospital) - Lymphoepithelial cyst
Ireland (Kerry General Hospital) - Lymphoepithelial cyst
Ireland (Mayo General Hospital) - Intrapancreatic accessory spleen
Japan (Asahi General Hospital) - Lymphoepithelial cyst
Japan, Tokyo - Lymphoepithelial cyst
Japan (University of Yamanashi) - Lymphoepithelial cyst
Japan (Wakayama Medical University) - Lymphoepithelial cyst
Oman (Khoula Hospital) - Dermoid cyst
Saudi Arabia (King Khalid University Hospital) - Lymphoepithelial cyst of the pancreas
Singapore (KTPH) - Lymphoepithelial cyst
Spain (Hospital Xeral de Vigo) - Lymphoepithelial cyst

United Kingdom (John Radcliffe Hospital) - Epidermoid cyst in intrapancreatic accessory spleen

Case 3 - Diagnosis:

Benign /lymphoepithelial cyst, pancreas

Case 3 - References:

Pancreatic lymphoepithelial cysts express CEA and can contain mucous cells: potential pitfalls in the preoperative diagnosis.
Mod Pathol 2010; Nov;23(11): p1467-76.
Raval JS; Zeh HJ, et al.

Lymphoepithelial cysts of the pancreas: the use of endoscopic ultrasound-guided fine-needle aspiration in diagnosis.
Can J Gastroenterol 2010; Jun;24(6): p348-50.
Karim Z; Walker B; Lam E.

Lymphoepithelial cyst of the pancreas mimicking a cystic neoplasm.
Rev Esp Enferm Dig 2010; Jan;102(1): p63-5.
Alcalde Quiros MJ; Catellote Caixal M, et al.

Dermoid cyst of the pancreas.
Int J Colorectal Dis 2010; Mar;25(3): p415-6.
Scheele J; Barth TF, et al.

Fine-needle aspiration cytology of pancreatic lymphoepithelial cysts.
Cancer 2006; Dec 25;108(6): p501-6.
Policarpio-Nicolas ML; Shami VM, et al.

Lymphoepithelial cyst of the pancreas.
Surgery 2006; Sep;140(3): p476-8.
Castaldo ET; Stumph JR; Merchant N.

Case No. 4, Accession No. 31537

April 2014

Alameda (Alameda County Medical Center) - Microcystic serous adenoma (5)
Bishop (Northern Inyo Hospital) - Pancreatic cystadenoma
Fontana (Kaiser Permanente) - Serous cystadenoma
Hayward-Fremont (St. Rose Hospital) - Microcystic serous cystadenoma
Long Beach (Long Beach VA) - Serous microcystic cystadenoma with papillary features
San Diego (Naval Medical Center) - Serous cystadenoma
Santa Barbara (Miramonte Laboratory) - Microcystic adenoma
Arkansas (Associated Pathologists Laboratory) - Microcystic serous cystadenoma
Connecticut (Danbury Hospital) - Microcystic cyst adenoma
Delaware (Armed Forces Medical Examiner System) - Pancreatic serous cystadenoma
Florida (Florida Atlantic University) - Microcystic cystadenoma of the pancreas
Florida (GastroEnterology Associates of Ocala) - Intraductal papillary cystic neoplasm serous
Georgia, Atlanta - Serous microcystic adenoma
Georgia (Wellstar Kennestone Hospital) - Serous cystadenoma/microcystic adenoma (4)
Illinois (Heartland Regional Medical Center) - Microcystic serous cystadenoma
Illinois, Oak Brook - Microcystic cystadenoma, pancreas
Kansas (Peterson Laboratory Services) - Serous cystadenoma
Maryland (Walter Reed National Military Medical Center) - Microcystic serous cystadenoma
Massachusetts (University of Massachusetts Residents) - Serous cystadenoma
Michigan (University of Michigan) - Microcystic serous cystadenoma
Michigan (William Beaumont Hospital) - Serous cystadenoma
Minnesota (Fairview Ridges Hospital) - Serous cystadenoma
Nebraska (Creighton University Medical Center) - Serous cystadenoma
New York (Mount-Sinai Roosevelt Hospital) - Serous cystadenoma, pancreas

North Carolina (Eastern Carolina Pathology) - Serous cystadenoma
Ohio (Summa Hlth System) - Microcystic serous cystadenoma
Pennsylvania (Lehigh Valley Hospital) - Serous microcystic adenoma
Puerto Rico (University of Puerto Rico) - Serous cystadenoma
South Carolina (MUSC Residents) - Serous cystadenoma
Texas (Anderson Cancer Center) - Polycystic hamartoma
Texas, Crystal Beach - Papillary cystic adenoma
Texas, Lubbock - Microcystic serous cystadenoma
Washington (Seattle VAMC) - Serous cell neoplasm, cyst adenoma
Wisconsin, Madison - Serous microcystic adenoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Serous (microcystic) adenoma
Australia (Royal Hobart Hospital) - Microcystic serous cystadenoma, pancreas
Canada (Pasqua Hospital) - Serous cystadenoma
Australia (Royal Prince Alfred Hospital) - Serous cystadenoma
Ireland (Bon Secours Hospital) - Microcystic serous cystadenoma
Ireland (Kerry General Hospital) - Microcystic cystadenoma
Ireland (Mayo General Hospital) - Microcystic cystadenoma
Japan (Asahi General Hospital) - Microcystic serous cystadenoma
Japan, Tokyo - Serous cystadenoma
Japan (University of Yamanashi) - Microcystic serous cystadenoma
Japan (Wakayama Medical University) - Serous cystadenoma
Oman (Khoula Hospital) - Dermoid cyst in intrapancreatic accessory spleen
Saudi Arabia (King Khalid University Hospital) - Serous cystadenoma of the pancreas
Singapore (KTPH) - Microcystic adenoma
Spain (Hospital Xeral de Vigo) - Serous cystadenoma
United Kingdom (John Radcliffe Hospital) - Serous cystic neoplasm

Case 4 - Diagnosis:

Microcystic serous cystadenoma, pancreas

Case 4 - References:

Serous cystic neoplasms of the pancreas: an immunohistochemical analysis revealing alpha-inhibin, neuron-specific enolase, and MUC6 as new markers.

Am J Surg Pathol 2004; Mar;28(3): p339-46.

Kosmahl M; Wagner J, et al.

Microcystic serous cystadenoma of the pancreas with subtotal cystic degeneration: another neoplastic mimic of pancreatic pseudocyst.

Am J Surg Pathol 2012; May;36(5): p726-31.

Panarelli NC; Park KJ, et al.

Carcinoma ex microcystic adenoma of the pancreas: a report of a novel form of malignancy in serous neoplasms.

Am J Surg Pathol 2012; Feb;36(2): p305-10.

Zhu H; Qin L, et al.

Serous microcystic adenoma (glycogen rich cystadenoma) of the pancreas.

Indian J Pathol Microbiol 2010; Jan-Mar;53(1): p106-8.

Jacob S; Rawat P; Mark RP.

Serous cystadenomas of the pancreas: long-term follow-up measurement of growth rate.

Can Assoc Radiol J 2011; Aug;62(3): p190-6.

Menard A; Tomlinson G, et al.

Alameda (Alameda County Medical Center) - Solid pseudopapillary neoplasm (5)
Bishop (Northern Inyo Hospital) - Partly mucinous cystadenoma
Fontana (Kaiser Permanente) - Solid pseudopapillary tumor
Hayward-Fremont (St. Rose Hospital) - Solid pseudopapillary tumor
Long Beach (Long Beach VA) - Solid and pseudopapillary tumor
San Diego (Naval Medical Center) - Serous pseudopapillary tumor
Santa Barbara (Miramonte Laboratory) - Solid pseudopapillary tumor
Arkansas (Associated Pathologists Laboratory) - Solid pseudopapillary neoplasm
Connecticut (Danbury Hospital) - Solid papillary carcinoma
Delaware (Armed Forces Medical Examiner System) - Solid pseudopapillary tumor
Florida (Florida Atlantic University) - Solid pseudopapillary tumor
Florida (GastroEnterology Associates of Ocala) - Solid serous cystadenoma
Georgia, Atlanta - Solid pseudopapillary tumor
Georgia (Wellstar Kennestone Hospital) - Solid pseudopapillary tumor (4)
Illinois (Heartland Regional Medical Center) - Solid pseudopapillary neoplasm
Illinois, Oak Brook - Solid pseudopapillary tumor
Kansas (Peterson Laboratory Services) - Solid and pseudopapillary carcinoma
Maryland (Walter Reed National Military Medical Center) - Solid pseudopapillary neoplasm
Massachusetts (University of Massachusetts Residents) - Solid pseudopapillary tumor
Michigan (University of Michigan) - Solid pseudopapillary tumor
Michigan (William Beaumont Hospital) - Solid pseudopapillary tumor of pancreas
Minnesota (Fairview Ridges Hospital) - Solid pseudopapillary tumor
Nebraska (Creighton University Medical Center) - Solid pseudopapillary tumor
New York (Mount-Sinai Roosevelt Hospital) - Solid pseudopapillary neoplasm
North Carolina (Eastern Carolina Pathology) - Solid pseudopapillary neoplasm
Ohio (Summa Hlth System) - Solid pseudopapillary neoplasm
Pennsylvania (Lehigh Valley Hospital) - Micropapillary solid and cystic neoplasm
Puerto Rico (University of Puerto Rico) - Solid pseudopapillary tumor
South Carolina (MUSC Residents) - Solid pseudopapillary tumor
Texas (Anderson Cancer Center) - Solid pseudopapillary tumor
Texas, Crystal Beach - Carcinoid
Texas, Lubbock - Well-differentiated neuroendocrine tumor
Washington (Seattle VAMC) - Solid pseudopapillary neoplasm
Wisconsin, Madison - Solid pseudopapillary tumor of pancreas
Wisconsin (Medical Assessment and Consultation, S.C.) - Islet cell neoplasm
Australia (Royal Hobart Hospital) - Solid pseudopapillary neoplasm, pancreas
Canada (Pasqua Hospital) - Solid pseudopapillary tumor
Australia (Royal Prince Alfred Hospital) - Solid pseudopapillary tumor of pancreas
Ireland (Bon Secours Hospital) - Solid pseudopapillary neoplasm
Ireland (Kerry General Hospital) - Solid pseudopapillary tumor
Ireland (Mayo General Hospital) - Solid pseudopapillary tumor
Japan (Asahi General Hospital) - Solid pseudopapillary neoplasm
Japan, Tokyo - Solid pseudopapillary neoplasm
Japan (University of Yamanashi) - Solid pseudopapillary tumor
Japan (Wakayama Medical University) - Solid pseudopapillary tumor of pancreas
Oman (Khoula Hospital) - Solid pseudopapillary neoplasm
Saudi Arabia (King Khalid University Hospital) - Solid pseudopapillary tumor of the pancreas
Singapore (KTPH) - Solid pseudopapillary tumor
Spain (Hospital Xeral de Vigo) - Solid pseudopapillary tumor
United Kingdom (John Radcliffe Hospital) - Solid pseudopapillary neoplasm

Case 5 - Diagnosis:

Solid pseudopapillary neoplasm, pancreas

Case 5 - References:

Paranuclear dot-like immunostaining for CD99: a unique staining pattern for diagnosing solid-pseudopapillary neoplasm of the pancreas.

Am J Surg Pathol 2011; Jun;35(6): p799-806.

Guo Y; Yuan F, et al.

Cercariform cells: another cytologic feature distinguishing solid pseudopapillary neoplasms from pancreatic endocrine neoplasms and acinar cell carcinomas in endoscopic ultrasound-guided fine-needle aspirates.

Cancer Cytopathol 2013; Jun;121(6): p298-310.

Samad A; Shah AA, et al.

Diagnosis and surgical treatment of solid pseudopapillary neoplasm of the pancreas: analysis of 24 cases.

Can J Surg 2011; Dec;54(6): p368-74.

Guo N; Zhou QB, et al.

Clinical features and surgical outcome of solid pseudopapillary tumor of the pancreas: 30 consecutive clinical cases.

Hepatogastroenterology 2011; May-Jun;58(107-108): p1002-8.

Kim HH; Yun SK, et al.

Solid pseudopapillary tumours of the pancreas: spectrum of imaging findings with histopathological correlation.

Br J Radiol 2012; Nov;85(1019): p1140-4.

Sunkara S; Williams TR, et al.

Case No. 6, Accession No. 31611

April 2014

Alameda (Alameda County Medical Center) - Pancreatic endocrine neoplasm (5)

Bishop (Northern Inyo Hospital) - Cystadenocarcinoma

Fontana (Kaiser Permanente) - Well-differentiated neuroendocrine tumor

Hayward-Fremont (St. Rose Hospital) - Micropapillary adenocarcinoma

Long Beach (Long Beach VA) - Neuroendocrine tumor

San Diego (Naval Medical Center) - Acinar cell carcinoma

Santa Barbara (Miramonte Laboratory) - Neuroendocrine tumor

Arkansas (Associated Pathologists Laboratory) - Hepatoid carcinoma of pancreas

Connecticut (Danbury Hospital) - Endocrine tumor

Delaware (Armed Forces Medical Examiner System) - Acinar cell carcinoma

Florida (Florida Atlantic University) - Well-differentiated carcinoma of the pancreas

Florida (GastroEnterology Associates of Ocala) - Intraductal papillary adenocarcinoma

Georgia, Atlanta - Pancreatic neuroendocrine tumor

Georgia (Wellstar Kennestone Hospital) - Acinic cell carcinoma (4)

Illinois (Heartland Regional Medical Center) - Pancreatic endocrine neoplasm

Illinois, Oak Brook - Acinar cell adenocarcinoma

Kansas (Peterson Laboratory Services) - Neuroendocrine carcinoma, grade 2/3

Maryland (Walter Reed National Military Medical Center) - Acinar cell carcinoma

Massachusetts (University of Massachusetts Residents) - Acinic cell carcinoma

Michigan (University of Michigan) - Pancreatic endocrine neoplasm

Michigan (William Beaumont Hospital) - Neuroendocrine tumor, grade 2

Minnesota (Fairview Ridges Hospital) - Adenocarcinoma

Nebraska (Creighton University Medical Center) - Acinar cell carcinoma

New York (Mount-Sinai Roosevelt Hospital) - Acinar cell carcinoma

North Carolina (Eastern Carolina Pathology) - Well-differentiated pancreatic neuroendocrine neoplasm

Ohio (Summa Hlth System) - Pancreatic endocrine neoplasm

Pennsylvania (Lehigh Valley Hospital) - Acinar cell adenocarcinoma

Puerto Rico (University of Puerto Rico) - Acinar cell carcinoma

South Carolina (MUSC Residents) - Acinar cell carcinoma

Texas (Anderson Cancer Center) - Carcinoid

Texas, Crystal Beach - Endocrine carcinoma

Texas, Lubbock - Poorly differentiated neuroendocrine tumor
Washington (Seattle VAMC) - Endocrine epithelial neoplasia
Wisconsin, Madison - Adenocarcinoma rule out endocrine tumor
Wisconsin (Medical Assessment and Consultation, S.C.) - Neuroendocrine carcinoma
Australia (Royal Hobart Hospital) - Pancreatic endocrine neoplasm
Canada (Pasqua Hospital) - Neuroendocrine tumor
Australia (Royal Prince Alfred Hospital) - Neuroendocrine tumor
Ireland (Bon Secours Hospital) - Ductal adenocarcinoma
Ireland (Kerry General Hospital) - Acinar cell carcinoma
Ireland (Mayo General Hospital) - Neuroendocrine carcinoma, nos
Japan (Asahi General Hospital) - Well-differentiated endocrine carcinoma
Japan, Tokyo - Ductal adenocarcinoma
Japan (University of Yamanashi) - Neuroendocrine tumor
Japan (Wakayama Medical University) - Acinar cell carcinoma
Oman (Khoula Hospital) - Ductal adenocarcinoma
Saudi Arabia (King Khalid University Hospital) - Neuroendocrine tumor of the pancreas
Singapore (KTPH) - Acinar cell carcinoma
Spain (Hospital Xeral de Vigo) - Well-differentiated neuroendocrine tumor
United Kingdom (John Radcliffe Hospital) - Pancreatic endocrine neoplasm

Case 6 - Diagnosis:

Acinar cell carcinoma, pancreas

Consultation: Dr. Lester Thompson: “Acinar cell carcinoma, pancreas”

Case 6 - References:

Activation of protein kinase C(acute) leads to increased pancreatic acinar cell dedifferentiation in the absence of MIST1.

J Pathol 2012; Nov;228(3): p351-65.

Johnson CL; Peat JM, et al.

Mixed acinar-endocrine carcinoma of the pancreas with intraductal growth into the main pancreatic duct: Report of a case.

Surg Today 2010; Apr;40(4): p380-4.

Kobayashi S; Asakura T, et al.

Pancreatic-type acinar cell carcinoma of the stomach beneath a focus of pancreatic metaplasia of the gastric mucosa.

Hum Pathol 2009; May;40(5): p746-9.

Ambrosini-Spaltro A; Poti O, et al.

Mixed acinar-endocrine carcinoma of the pancreas: new clinical and pathological features in a contemporary series.

Pancreas 2013; Apr;42(3): p429-35.

Yu R; Jih L, et al.

Acinar cell carcinomas with exophytic growth and intraductal pancreatic duct invasion: peculiar multislice computed tomographic picture.

J Hepatobiliary Pancreat Surg 2009; 16(2): p238-41.

Yang TM; Han SC, et al.

CT and MRI features of acinar cell carcinoma of the pancreas with pathological correlations.

Clin Radiol 2010; Mar;65(3): p223-9.

Hsu MY; Pan KT, et al.

Case No. 7, Accession No. 31671

April 2014

Alameda (Alameda County Medical Center) - Hepatoblastoma (5)

Bishop (Northern Inyo Hospital) - Hepatoblastoma

Fontana (Kaiser Permanente) - Hepatocellular carcinoma

Hayward-Fremont (St. Rose Hospital) - Hepatoblastoma

Long Beach (Long Beach VA) - Hepatoblastoma
San Diego (Naval Medical Center) - Hepatoblastoma
Santa Barbara (Miramonte Laboratory) - Hepatoblastoma
Arkansas (Associated Pathologists Laboratory) - Hepatoblastoma
Connecticut (Danbury Hospital) - Hepatoblastoma
Delaware (Armed Forces Medical Examiner System) - Hepatoblastoma
Florida (Florida Atlantic University) - Hepatocellular carcinoma
Florida (GastroEnterology Associates of Ocala) - Hepatoblastoma
Georgia, Atlanta - Hepatocellular carcinoma
Georgia (Wellstar Kennestone Hospital) - Hepatoblastoma (4)
Illinois (Heartland Regional Medical Center) - Hepatoblastoma
Illinois, Oak Brook - Hepatoblastoma
Kansas (Peterson Laboratory Services) - Hepatoblastoma
Maryland (Walter Reed National Military Medical Center) - Hepatoblastoma
Massachusetts (University of Massachusetts Residents) - Hepatoblastoma
Michigan (University of Michigan) - Hepatocellular carcinoma
Michigan (William Beaumont Hospital) - Hepatoblastoma
Minnesota (Fairview Ridges Hospital) - Hepatoblastoma
Nebraska (Creighton University Medical Center) - Hepatoblastoma
New York (Mount-Sinai Roosevelt Hospital) - Hepatoblastoma
North Carolina (Eastern Carolina Pathology) - Hepatoblastoma
Ohio (Summa Hlth System) - Hepatoblastoma
Pennsylvania (Lehigh Valley Hospital) - Epithelial hepatoblastoma
Puerto Rico (University of Puerto Rico) - Hepatoblastoma
South Carolina (MUSC Residents) - Hepatoblastoma
Texas (Anderson Cancer Center) - Hepatocellular carcinoma, oncocytic
Texas, Crystal Beach - Hepatoblastoma
Texas, Lubbock - Hepatoblastoma, fetal type
Washington (Seattle VAMC) - Epithelial neoplasm, hepatoblastoma
Wisconsin, Madison - Hepatocellular carcinoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Hepatoblastoma
Australia (Royal Hobart Hospital) - Epithelial type of hepatoblastoma
Canada (Pasqua Hospital) - Hepatocellular carcinoma
Australia (Royal Prince Alfred Hospital) - Hepatoblastoma
Ireland (Bon Secours Hospital) - Hepatoblastoma
Ireland (Kerry General Hospital) - Hepatoblastoma
Ireland (Mayo General Hospital) - Hepatoblastoma
Japan (Asahi General Hospital) - Hepatoblastoma
Japan, Tokyo - Hepatoblastoma
Japan (University of Yamanashi) - Hepatoblastoma
Japan (Wakayama Medical University) - Hepatoblastoma
Oman (Khoulia Hospital) - Hepatoblastoma
Saudi Arabia (King Khalid University Hospital) - Hepatoblastoma “predominantly fetal type”
Singapore (KTPH) - Hepatoblastoma
Spain (Hospital Xeral de Vigo) - Hepatoblastoma
United Kingdom (John Radcliffe Hospital) - Hepatoblastoma, fetal type

Case 7 - Diagnosis:

Hepatoblastoma, liver

Case 7 - References:

Hepatoblastoma--an attempt of histological subtyping on fine-needle aspiration material.

Diagn Cytopathol 2013; Feb;41(2): p95-101.

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Eur J Cancer 2012; Aug;48(12): p1853-9.

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Pediatric malignancies: neuroblastoma, Wilm's tumor, hepatoblastoma, rhabdomyosarcoma, and sacrococcygeal teratoma.
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Cancer Genet Cytogenet 2009; Oct 15;194(2): p82-7.
Stejskalova E; Malis J; Snajdauf J; Pycha K; Urbankova H; Bajciová V; Stary J; Kodet R; Jarosova M

Current issues and controversies in the classification of pediatric hepatocellular tumors.
Pediatr Blood Cancer 2012; Nov;59(5): p780-4.
Lopez-Terrada D; Zimmermann A.

Case No. 8, Accession No. 31536

April 2014

Alameda (Alameda County Medical Center) - Hepatocellular carcinoma (5)
Bishop (Northern Inyo Hospital) - Focal nodular hyperplasia
Fontana (Kaiser Permanente) - Hepatocellular carcinoma
Hayward-Fremont (St. Rose Hospital) - Focal nodular hyperplasia
Long Beach (Long Beach VA) - Hepatocellular carcinoma
San Diego (Naval Medical Center) - Hepatocellular carcinoma, clear cell type
Santa Barbara (Miramonte Laboratory) - Clear cell hepatocellular carcinoma
Arkansas (Associated Pathologists Laboratory) - Hepatocellular carcinoma, clear cell type
Connecticut (Danbury Hospital) - Clear cell hepatocellular carcinoma
Delaware (Armed Forces Medical Examiner System) - Hepatocellular carcinoma, clear cell variant
Florida (Florida Atlantic University) - Steatohepatic hepatocellular carcinoma
Florida (GastroEnterology Associates of Ocala) - Steatohepatic hepatocellular carcinoma
Georgia, Atlanta - Hepatic adenoma
Georgia (Wellstar Kennestone Hospital) - Hepatocellular adenoma vs. well-differentiated hepatocellular carcinoma (2); Hepatocellular carcinoma, clear cell variant (1); Focal nodular hyperplasia (1)
Illinois (Heartland Regional Medical Center) - Hepatocellular carcinoma, clear cell type
Illinois, Oak Brook - Hepatocellular carcinoma, grade I
Kansas (Peterson Laboratory Services) - Hepatocellular carcinoma
Maryland (Walter Reed National Military Medical Center) - Hepatocellular carcinoma
Massachusetts (University of Massachusetts Residents) - Hepatocellular carcinoma, steatohepatic variant
Michigan (University of Michigan) - Hepatocellular carcinoma, clear cell type
Michigan (William Beaumont Hospital) - Hepatocellular carcinoma, clear cell
Minnesota (Fairview Ridges Hospital) - Hepatocellular carcinoma
Nebraska (Creighton University Medical Center) - Hepatocellular carcinoma, clear cell type
New York (Mount-Sinai Roosevelt Hospital) - Hepatocellular carcinoma, clear cell variant
North Carolina (Eastern Carolina Pathology) - Hepatocellular carcinoma
Ohio (Summa Hlth System) - Well-differentiated hepatocellular carcinoma
Pennsylvania (Lehigh Valley Hospital) - Hepatocellular carcinoma
Puerto Rico (University of Puerto Rico) - Hepatocellular carcinoma
South Carolina (MUSC Residents) - Hepatocellular carcinoma with clear cell features
Texas (Anderson Cancer Center) - Hepatocellular carcinoma, clear cell
Texas, Crystal Beach - Hepatoma
Texas, Lubbock - Hepatocellular carcinoma
Washington (Seattle VAMC) - Epithelial neoplasm, low grade hepatocellular carcinoma
Wisconsin, Madison - Hepatocellular carcinoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Nodular regenerative hyperplasia
Australia (Royal Hobart Hospital) - Hepatocellular carcinoma with prominent fatty change
Canada (Pasqua Hospital) - Hepatocellular carcinoma
Australia (Royal Prince Alfred Hospital) - Hepatocellular carcinoma

Ireland (Bon Secours Hospital) - Hepatocellular carcinoma
Ireland (Kerry General Hospital) - Liver cell carcinoma
Ireland (Mayo General Hospital) - Hepatocellular carcinoma, clear cell variant
Japan (Asahi General Hospital) - Hepatocellular carcinoma
Japan, Tokyo - Hepatocellular carcinoma
Japan (University of Yamanashi) - Hepatocellular carcinoma
Japan (Wakayama Medical University) - Hepatocellular carcinoma
Oman (Khoula Hospital) - Hepatocellular carcinoma
Saudi Arabia (King Khalid University Hospital) - Well-differentiated hepatocellular carcinoma with alcoholic liver cirrhosis
Singapore (KTPH) - Hepatocellular carcinoma, alcoholic change
Spain (Hospital Xeral de Vigo) - Hepatocellular carcinoma (with clear cell features)
United Kingdom (John Radcliffe Hospital) - Hepatocellular carcinoma

Case 8 - Diagnosis:

Hepatocellular carcinoma, clear cell variant, liver

Case 8 - References:

Synchronous renal cell carcinoma and clear cell hepatocellular carcinoma mimicking metastatic disease.
Pathol Res Pract 2010; May 15;206(5): p342-5.
 Hou TC; Wu CC, et al.

Virus-induced hepatocellular carcinomas cause antigen-specific local tolerance.
J Clin Invest 2013; Mar 1;123(3): p1032-43.
 Willmsky G; Schmidt K, et al.

Hepatic angiomyolipoma mimicking hepatic clear cell carcinoma.
J Int Med Res 2009; Jan-Feb;37(1): p257-63.
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HCV-related hepatocellular carcinoma: From chronic inflammation to cancer.
Clin Immunol 2010; Mar;134(3): p237-50.
 Castello G; Scala S, et al.

[Clinicopathological and prognostic analysis of primary clear cell carcinoma of the liver].
Zhonghua Zhong Liu Za Zhi 2013; Feb;35(2): p140-3.
 Li ZY; Bi XY, et al.

[Diagnosis and treatment of primary clear cell carcinoma of the liver]
Zhonghua Zhong Liu Za Zhi 2010; Jan;32(1): p64-6.
 Ye XP; Li LQ, et al.

Primary clear cell carcinoma in the liver: CT and MRI findings.
World J Gastroenterol 2011; Feb 21;17(7): p946-52.
 Liu QY; Li HG, et al.

Case No. 9, Accession No. 31527

April 2014

Alameda (Alameda County Medical Center) - Mucinous adenocarcinoma (5)
Bishop (Northern Inyo Hospital) - Colloid carcinoma
Fontana (Kaiser Permanente) - Mucinous adenocarcinoma
Hayward-Fremont (St. Rose Hospital) - Mucinous carcinoma
Long Beach (Long Beach VA) - Mucin producing adenocarcinoma
San Diego (Naval Medical Center) - Mucinous adenocarcinoma
Santa Barbara (Miramonte Laboratory) - Mucinous carcinoma
Arkansas (Associated Pathologists Laboratory) - Mucinous colonic adenocarcinoma
Connecticut (Danbury Hospital) - Mucinous adenocarcinoma

Delaware (Armed Forces Medical Examiner System) - Invasive mucinous adenocarcinoma arising in villous adenoma
Florida (Florida Atlantic University) - Mucinous adenocarcinoma of the colon
Florida (GastroEnterology Associates of Ocala) - Mucinous adenocarcinoma
Georgia, Atlanta - Mucinous/colloid adenocarcinoma
Georgia (Wellstar Kennestone Hospital) - Mucinous adenocarcinoma (4)
Illinois (Heartland Regional Medical Center) - Mucinous adenocarcinoma
Illinois, Oak Brook - Mucinous adenocarcinoma
Kansas (Peterson Laboratory Services) - Mucinous adenocarcinoma
Maryland (Walter Reed National Military Medical Center) - Mucinous adenocarcinoma
Massachusetts (University of Massachusetts Residents) - Mucinous carcinoma
Michigan (University of Michigan) - Colorectal adenocarcinoma
Michigan (William Beaumont Hospital) - Mucinous adenocarcinoma
Minnesota (Fairview Ridges Hospital) - Mucinous adenocarcinoma
Nebraska (Creighton University Medical Center) - Moderately differentiated mucinous adenocarcinoma
New York (Mount-Sinai Roosevelt Hospital) - Mucinous adenocarcinoma colon arising from villous adenoma
North Carolina (Eastern Carolina Pathology) - Invasive mucinous carcinoma
Ohio (Summa Hlth System) - Mucinous adenocarcinoma
Pennsylvania (Lehigh Valley Hospital) - Mucinous adenocarcinoma
Puerto Rico (University of Puerto Rico) - Adenocarcinoma, mucinous
South Carolina (MUSC Residents) - Mucinous adenocarcinoma
Texas (Anderson Cancer Center) - Mucinous adenocarcinoma
Texas, Crystal Beach - Mucinous adenocarcinoma
Texas, Lubbock - Mucinous adenocarcinoma
Washington (Seattle VAMC) - Mucinous-producing adenocarcinoma
Wisconsin, Madison - Mucinous carcinoma
Wisconsin (Medical Assessment and Consultation, S.C.) - Mucin secreting signet ring cell adenocarcinoma
Australia (Royal Hobart Hospital) - Mucinous adenocarcinoma, colon
Canada (Pasqua Hospital) - Mucinous carcinoma
Australia (Royal Prince Alfred Hospital) - Adenocarcinoma with mucinous and possible neuroendocrine components
Ireland (Bon Secours Hospital) - Mucinous adenocarcinoma
Ireland (Kerry General Hospital) - Mucinous adenocarcinoma
Ireland (Mayo General Hospital) - Mucinous adenocarcinoma
Japan (Asahi General Hospital) - Mucinous adenocarcinoma
Japan, Tokyo - Mucinous adenocarcinoma
Japan (University of Yamanashi) - Mucinous adenocarcinoma
Japan (Wakayama Medical University) - Mucinous adenocarcinoma
Oman (Khoulia Hospital) - Mucinous adenocarcinoma
Saudi Arabia (King Khalid University Hospital) - Mucinous adenocarcinoma
Singapore (KTPH) - Mucinous adenocarcinoma
Spain (Hospital Xeral de Vigo) - Colorectal adenocarcinoma with areas of mucinous carcinoma
United Kingdom (John Radcliffe Hospital) - Mucinous adenocarcinoma

Case 9 - Diagnosis:

Mucinous adenocarcinoma with signet ring features, colon

Case 9 - References:

Expression of intestinal MUC17 membrane-bound mucin in inflammatory and neoplastic diseases of the colon.

J Clin Pathol 2010; Aug;63(8): p702-7.

Senapati S; Ho SB, et al.

Mucinous subtype as prognostic factor in colorectal cancer: a systematic review and meta-analysis.

J Clin Pathol 2012; May;65(5): p381-8.

Verhulst J; Ferdinande L, et al.

Tumor location is a prognostic factor in poorly differentiated adenocarcinoma, mucinous adenocarcinoma, and signet-ring cell carcinoma of the colon.

Int J Colorectal Dis 2012; Mar;27(3): p371-9.

Ishihara S; Watanabe T, et al.

Signet ring cell colorectal carcinoma: a distinct subset of mucin-poor microsatellite-stable signet ring cell carcinoma associated with dismal prognosis.

Am J Surg Pathol 2013; Jul;37(7): p969-77.

Hartman DJ; Nikiforova MN, et al.

Clinicopathology and outcomes for mucinous and signet ring colorectal adenocarcinoma: analysis from the National Cancer Data Base.

Ann Surg Oncol 2012; Sep;19(9): p2814-21.

Hynstrom JR; Hu CY, et al.

Goblet or signet ring cells: that is the question.

Adv Anat Pathol 2009; Jul;16(4): p247-54.

Wang HL; Dhall D.

Case No. 10, Accession No. 31665

April 2014

Alameda (Alameda County Medical Center) - Gastrointestinal stromal tumor (5)

Bishop (Northern Inyo Hospital) - Gastrointestinal stromal tumor

Fontana (Kaiser Permanente) - Gastrointestinal stromal tumor

Hayward-Fremont (St. Rose Hospital) - Gastrointestinal stromal tumor favored over neurilemmoma

Long Beach (Long Beach VA) - Gastrointestinal stromal tumor

San Diego (Naval Medical Center) - Spindle cell gastrointestinal stromal tumor

Santa Barbara (Miramonte Laboratory) - Gastrointestinal stromal tumor

Arkansas (Associated Pathologists Laboratory) - Gastrointestinal stromal tumor

Connecticut (Danbury Hospital) - Gastrointestinal stromal tumor (GIST)

Delaware (Armed Forces Medical Examiner System) - Favor leiomyosarcoma

Florida (Florida Atlantic University) - Gastrointestinal stromal tumor

Florida (GastroEnterology Associates of Ocala) - Gastric GIST

Georgia, Atlanta - Gastrointestinal stromal tumor

Georgia (Wellstar Kennestone Hospital) - GIST (4)

Illinois (Heartland Regional Medical Center) - GIST

Illinois, Oak Brook - GIST

Kansas (Peterson Laboratory Services) - GIST

Maryland (Walter Reed National Military Medical Center) - GIST

Massachusetts (University of Massachusetts Residents) - Leiomyosarcoma

Michigan (University of Michigan) - Gastrointestinal stromal tumor

Michigan (William Beaumont Hospital) - Gastrointestinal stromal tumor

Minnesota (Fairview Ridges Hospital) - Gastrointestinal stromal tumor

Nebraska (Creighton University Medical Center) - GIST

New York (Mount-Sinai Roosevelt Hospital) - GIST, stomach

North Carolina (Eastern Carolina Pathology) - GIST

Ohio (Summa Hlth System) - Gastrointestinal stromal tumor

Pennsylvania (Lehigh Valley Hospital) - GIST

Puerto Rico (University of Puerto Rico) - GIST (moderate risk)

South Carolina (MUSC Residents) - Gastrointestinal stromal tumor

Texas (Anderson Cancer Center) - Schwannoma

Texas, Crystal Beach - Fibrous stromal tumor

Texas, Lubbock - Leiomyosarcoma

Washington (Seattle VAMC) - Gastrointestinal stromal tumor

Wisconsin, Madison - Gastrointestinal stromal tumor

Wisconsin (Medical Assessment and Consultation, S.C.) - Spindle cell neoplasm

Australia (Royal Hobart Hospital) - Gastrointestinal stromal tumor

Canada (Pasqua Hospital) - Gastrointestinal stromal tumor

Australia (Royal Prince Alfred Hospital) - Gastrointestinal stromal tumor

Ireland (Bon Secours Hospital) - Spindle cell sarcoma (malignant GIST)
Ireland (Kerry General Hospital) - Gastrointestinal stromal tumor
Ireland (Mayo General Hospital) - Gastrointestinal stromal tumor, GIST
Japan (Asahi General Hospital) - Gastrointestinal stromal tumor
Japan, Tokyo - Gastrointestinal stromal tumor
Japan (University of Yamanashi) - Gastrointestinal stromal tumor
Japan (Wakayama Medical University) - Gastrointestinal stromal tumor
Oman (Khoula Hospital) - Gastrointestinal stromal tumor, (moderate risk of malignancy)
Saudi Arabia (King Khalid University Hospital) - Gastrointestinal stromal tumor (GIST) of borderline malignancy
Singapore (KTPH) - Gastrointestinal stromal tumor
Spain (Hospital Xeral de Vigo) - Gastrointestinal stromal tumor
United Kingdom (John Radcliffe Hospital) - Gastrointestinal stromal tumor, GIST

Case 10 - Diagnosis:

Gastrointestinal stromal tumor, GIST, spindle cell type, stomach

Case 10 - References:

Gastrointestinal stromal tumors (GISTs): an updated experience.

Dig Dis Sci 2010; Dec;55(12): p3315-27.

Machairas A; Karamitopoulou E, et al.

Small gastrointestinal stromal tumor of the stomach showing rapid growth and early metastasis to the liver.

Dig Endosc 2010; Oct;22(4): p354-6.

Tanaka J; Oshima T, et al.

Prognostic impact of blood vessel invasion in gastrointestinal stromal tumor of the stomach.

Hum Pathol 2010; Oct;41(10): p1422-30.

Yamamoto H; Kojima A, et al.

Long-term clinical outcome of patients with gastric gastrointestinal stromal tumors.

Dig Dis Sci 2010; Oct;55(10): p2893-8.

Maor Y; Avidan B, et al.

Genetic analysis of intraoral KIT-positive gastrointestinal stromal tumor (GIST).

Oral Surg Oral Med Oral Pathol Oral Radiol Endod 2010; Oct;110(4): p498-503.

Kara MI; Ay S, et al.