



CALIFORNIA
TUMOR TISSUE REGISTRY

“Pathology of the Digestive System”

Minutes – Subscription A

November 2010



SUGGESTED READING (General Topics from Recent Literature):

Clonal Origin of Multifocal Hepatocellular Carcinoma. Hodges KB, Cummings OW, et al. *Cancer* 2010; 28.

Low-Grade Dysplasia in Barrett’s Esophagus. Overdiagnosed and Underestimated. Curvers WL, ten Kate FJ, et al. *Am J Gastroenterol* 2010; 105:1523-1530.

Significance of “Signet-Ring Cells” Seen in Exfoliative and Aspiration Cytopathology. Wu JM and Ali SZ. *Diagn Cytopathol* 2010; 38:413-418.

Clinicopathological Features of Pancreatic Endocrine Tumors. A Prospective Multicenter Study in Italy in 297 Sporadic Cases. Zerbi A, Falconi M, et al. *Am J Gastroenterol* 2010; 105:1421-1429.

The Frequency, Clinical Significance, and Pathological Features of Chronic Chorioamnionitis. A Lesion Associated with Spontaneous Preterm Birth. Kim CJ, Romero R, et al. *Mod Pathol* 2010; 23:1000-1011.

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FILE DIAGNOSES

CTTR Subscription A

November 2010

Case 1:

Warthin tumor, parotid
T-55110, M-85610

Case 2:

Serous microcystic cystadenoma, pancreas
T-59000, M-81400

Case 3:

Adenosquamous carcinoma, pancreas
T-59000, M-85603

Case 4:

Liver cell adenoma/hepatic adenoma, likely steroid-use related
T-56000, D-6357

Case 5:

Hepatocellular carcinoma, liver
T-56000, M-81703

Case 6:

Poorly differentiated adenocarcinoma (signet-ring type), stomach
T-08450, M-84903

Case 7:

Lymphoepithelial carcinoma, duodenum and pancreas
T-59000/64300, M-80823

Case 8:

Superficial mucinous adenocarcinoma, colon
T-67000, M-81403

Case 9:

Metastatic colon adenocarcinoma to liver
T-56000, M-81403

Case 10:

Burkitt lymphoma, colon/ileum
T-67000, M-97503

Fontana (Kaiser Foundation Hospital) - Warthin tumor
Glendale - Warthin tumor
Hayward (St. Rose Hospital) - Warthin tumor
Long Beach (Long Beach Veterans Hospital) - Warthin tumor
Oxnard (St. John's Regional Medical Center) - Warthin tumor (3)
San Diego (Naval Medical Center) - Warthin tumor
Santa Barbara (Miramonte Laboratories) - Warthin tumor
Woodland Hills (Kaiser Permanente) - Warthin tumor
Arkansas (Associated Pathologist's Laboratory) - Warthin tumor
Colorado (McKee Medical Center) - Warthin tumor
Florida (Gastro Enterology Association of Ocala) - Warthin tumor
Florida, Tallahassee - Warthin tumor
Florida (Naples Pathology Associates) - Warthin tumor
Georgia, Atlanta - Warthin tumor
Illinois, Chicago - Warthin tumor (2)
Illinois (Heartland Regional Medical Center) - Warthin tumor
Indiana (Ball Memorial Hospital Residents) - Warthin tumor
Maryland (University of Maryland) - Warthin tumor
Massachusetts (BWH Pathology) - Warthin tumor
Massachusetts, Peabody - Warthin tumor
Massachusetts (UMass Memorial Residents) - Warthin tumor
Michigan, Caledonia - Warthin tumor, parotid gland
Michigan (Pathology Consultants of Port Huron) - Warthin tumor
Minnesota (Fairview Ridges Hospital) - Warthin tumor
Missouri (Missouri Delta Medical Center) - Warthin tumor (2)
Nebraska (Creighton University Medical Center) - Warthin tumor
New York (Albany Medical Center) - Warthin tumor (2)
New York (Buffalo General Hospital) - Warthin tumor
New York (Staten Island University Hospital) - Warthin tumor
New York (SUNY Stony Brook University Hospital) - Warthin tumor
New York (Westchester Medical Center) - Warthin tumor (2)
North Carolina (North Carolina Baptist Hospital) - Warthin tumor
North Carolina (Wake Forest University School of Medicine) - Warthin tumor
Ohio (Cleveland Clinic Residents) - Warthin tumor
Ohio, Union Town - Warthin tumor
Ohio (University of Toledo Medical Center) - Warthin tumor
Pennsylvania (Conemaugh Memorial Hospital) - Warthin tumor
Pennsylvania (Drexel University College of Medicine) - Warthin tumor
Pennsylvania (Pennsylvania Hospital) - Warthin tumor
Pittsburgh (Magee Women's Hospital) - Warthin tumor
Puerto Rico (University of Puerto Rico) - Warthin tumor
Texas, Crystal Beach - Warthin tumor, salivary gland
Texas, Houston - Warthin tumor
Texas, Lubbock - Warthin tumor
Washington (Seattle VAMC) - Warthin tumor
West Virginia (Greenbrier Valley Medical Center) - Warthin tumor
Australia (Royal Hobart Hospital) - Warthin tumor, parotid
Australia (St. Vincent's Hospital) - Warthin tumor, parotid
Australia (Sullivan Nicolaides Pathology) - Warthin tumor, parotid
Canada (Pasqua Hospital) - Warthin tumor
Canada (Saint-Antoine/Richeueu) - Warthin tumor
Canada (University of Sherbrooke) - Warthin tumor
Ireland (Kerry General Hospital) - Warthin tumor
Ireland (University Hospital Galway) - Warthin tumor
Japan (Aichi Medical University) - Warthin tumor

Japan (Asahi General Hospital) - Warthin tumor
Japan, Setagaya-ku - Warthin tumor
Japan (Shizuoka Tokushukai Hospital) - Warthin tumor
Japan (University of Yamanashi) - Warthin tumor
Oman (Khoula Hospital) - Warthin tumor
Saudi Arabia (King Khalid University Hospital) - Warthin tumor
Singapore (Freelance/Locum Practice) - Warthin tumor
Singapore (Singapore General Hospital) - Warthin tumor

Case 1 - Diagnosis:

Warthin tumor, parotid
 T-55110, M-85610

Case 1 - References:

Warthin's tumor at the Brazilian National Cancer Institute: additional evidence of homogeneous sex prevalence and association with other neoplasms. *ORL J Otorhinolaryngol Relat Spec* 2008;70(6): p339-43 Cardoso SV; do Nascimento Souza KC; et al.

Parotid glands tumours: overview of a 10-year experience with 282 patients, focusing on 231 benign epithelial neoplasms. *Eur Rev Med Pharmacol Sci* 2008; Sep-Oct;12(5): p321-5. Ungari C; Paparo F; et al.

Smoking and risk of parotid gland tumors: a nationwide case-control study. *Cancer* 2008; May 1;112(9): p1974-82. Sadetzki S; Oberman B; et al.

Induction of parotitis by fine-needle aspiration in parotid Warthin's tumor. *Otolaryngol Head Neck Surg* 2009; Aug;141(2): p282-4. Suzuki K; Iwai H; et al.

Warthin's tumor with multiple granulomas: a clinicopathologic study of six cases. *Diagn Cytopathol* 2006; Aug;34(8): p564-7. Jung SM; Hao SP.

Warthin tumors do not have microsatellite instability and express normal DNA mismatch repair proteins. *Arch Pathol Lab Med* 2006; Jan;130(1): p52-6. Hunt JL.

Case No. 2, Accession No. 30637

November 2010

Fontana (Kaiser Foundation Hospital) - Serous cystadenoma
Glendale - Serous cystadenoma
Hayward (St. Rose Hospital) - Microcystic serous cystadenoma
Long Beach (Long Beach Veterans Hospital) - Serous cystadenoma
Oxnard (St. John's Regional Medical Center) - Cystic adenoma (1); Microcystic serous cystadenoma (2)
San Diego (Naval Medical Center) - Serous cystadenoma
Santa Barbara (Miramonte Laboratories) - Serous cystadenoma
Woodland Hills (Kaiser Permanente) - Microcystic serous cystadenoma
Arkansas (Associated Pathologist's Laboratory) - Microcystic serous cystadenoma
Colorado (McKee Medical Center) - Microcystic cystadenoma
Florida (Gastro Enterology Association of Ocala) - Serous cystadenoma
Florida, Tallahassee - Microcystic cystadenoma
Florida (Naples Pathology Associates) - Serous microcystic adenoma
Georgia, Atlanta - Serious microcystic adenoma
Illinois, Chicago - Serous cystadenoma (2)
Illinois (Heartland Regional Medical Center) - Microcystic serous cystadenoma
Indiana (Ball Memorial Hospital Residents) - Serous cystadenoma
Maryland (University of Maryland) - Serous cystadenoma
Massachusetts (BWH Pathology) - Serous cystadenoma
Massachusetts, Peabody - Serous cystadenoma, pancreas

Massachusetts (UMass Memorial Residents) - Serous cystadenoma
Michigan, Caledonia - Serous cystadenoma of pancreas
Michigan (Pathology Consultants of Port Huron) - Microcystic serous cystadenoma
Minnesota (Fairview Ridges Hospital) - Serous cystadenoma
Missouri (Missouri Delta Medical Center) - Microcystic serous cystadenoma (1); Microcystic adenoma (1)
Nebraska (Creighton University Medical Center) - Microcystic serous cystadenoma
New York (Albany Medical Center) - Serous cystadenoma (2)
New York (Buffalo General Hospital) - Serous cystadenoma
New York (Staten Island University Hospital) - Serous microcystic cystadenoma of pancreas
New York (SUNY Stony Brook University Hospital) - Serous cystadenoma
New York (Westchester Medical Center) - Serous microcystic adenoma (2)
North Carolina (North Carolina Baptist Hospital) - Serous cystadenoma
North Carolina (Wake Forest University School of Medicine) - Serous cystadenoma
Ohio (Cleveland Clinic Residents) - Microcystic serous cystadenoma
Ohio, Union Town - Serous cystadenoma
Ohio (University of Toledo Medical Center) - Microcystic cystadenoma
Pennsylvania (Conemaugh Memorial Hospital) - Serous microcystic adenoma
Pennsylvania (Drexel University College of Medicine) - Serous cystadenoma
Pennsylvania (Pennsylvania Hospital) - Microcystic serous cystadenoma
Pittsburgh (Magee Women's Hospital) - Serous cystadenoma
Puerto Rico (University of Puerto Rico) - Serous microcystic adenoma
Texas, Crystal Beach - Serous cystadenoma
Texas, Houston - Microcystic serous cystadenoma
Texas, Lubbock - Microcystic serous cystadenoma
Washington (Seattle VAMC) - Benign cystic neoplasm, serous cystadenoma
West Virginia (Greenbrier Valley Medical Center) - Microcystic serous cystadenoma
Australia (Royal Hobart Hospital) - Adenosquamous carcinoma, pancreas
Australia (St. Vincent's Hospital) - Microcystic serous cystadenoma, pancreas
Australia (Sullivan Nicolaides Pathology) - Microcystic serous adenoma, pancreas
Canada (Pasqua Hospital) - Microcystic adenoma
Canada (Saint-Antoine/Richeueu) - Microcystic serous cystadenoma
Canada (University of Sherbrooke) - Serous cystadenoma
Ireland (Kerry General Hospital) - Serous cystadenoma of pancreas
Ireland (University Hospital Galway) - Serous microcystic cystadenoma
Japan (Aichi Medical University) - Serous adenoma
Japan (Asahi General Hospital) - Serous cystic adenoma of the pancreas (1); Microcystic serous cystadenoma (1)
Japan, Setagaya-ku - Serous cystadenoma
Japan (Shizuoka Tokushukai Hospital) - Microcystic serous cystadenoma
Japan (University of Yamanashi) - Serous cystadenoma
Oman (Khoulia Hospital) - Microcystic adenoma (serous cystadenoma)
Saudi Arabia (King Khalid University Hospital) - Microcystic serous neoplasm of pancreas
Singapore (Freelance/Locum Practice) - Serous microcystic adenoma
Singapore (Singapore General Hospital) - Microcystic serous cystadenoma

Case 2 - Diagnosis:

Serous microcystic cystadenoma, pancreas
 T-59000, M-81400

Case 2 - References:

An immunohistochemical and ultrastructural study of pancreatic microcystic serous cyst adenoma with special reference to tumor-associated microvasculature and vascular endothelial growth factor in tumor cells. *Ultrastruct Pathol* 2006; Jan-Feb;30(1): p119-28. Yamazaki K; Eyden B.

Three cases of pancreatic serous cystadenoma and endocrine tumour. *J Clin Pathol* 2007; Mar;60(3): p278-82. Blandamura S; Parenti A; et al.

Serous microcystic adenoma (glycogen-rich cystadenoma) of the pancreas: study of 11 cases showing clinicopathological and immunohistochemical correlations. *Pathol Int* 2002; Apr;52(4): p307-12. Yasuhara Y; Sakaida N; et al.

Cystic neoplasms of the pancreas. *Am J Clin Pathol* 2003; Jun;119 Suppl:S3-16. Goldsmith JD.

Serous cystadenoma of the pancreas with papillary features: a diagnostic pitfall on fine-needle aspiration biopsy. *Arch Pathol Lab Med* 2001; Dec;125(12): p1591-4. Rampy BA; Waxman I; Xiao SY; Logrono R.

Serous cystic tumors of the pancreas. *Semin Diagn Pathol* 2000; Feb;17(1): p43-55. Compton CC.

Case No. 3, Accession No. 30544

November 2010

Fontana (Kaiser Foundation Hospital) - Adenosquamous carcinoma
Glendale - Adenosquamous carcinoma
Hayward (St. Rose Hospital) - Adenosquamous carcinoma
Long Beach (Long Beach Veterans Hospital) - Adenosquamous carcinoma
Oxnard (St. John's Regional Medical Center) - Adenosquamous carcinoma (3)
San Diego (Naval Medical Center) - Adenosquamous carcinoma
Santa Barbara (Miramonte Laboratories) - Poorly differentiated carcinoma
Woodland Hills (Kaiser Permanente) - Adenosquamous carcinoma
Arkansas (Associated Pathologist's Laboratory) - Ductal adenocarcinoma of pancreas
Colorado (McKee Medical Center) - Endocrine neoplasm
Florida (Gastro Enterology Association of Ocala) - Adenosquamous carcinoma
Florida, Tallahassee - Adenosquamous carcinoma
Florida (Naples Pathology Associates) - Adenosquamous carcinoma
Georgia, Atlanta - Adenosquamous carcinoma
Illinois, Chicago - Infiltrating ductal adenocarcinoma (2)
Illinois (Heartland Regional Medical Center) - Adenosquamous carcinoma
Indiana (Ball Memorial Hospital Residents) - Adenosquamous carcinoma
Maryland (University of Maryland) - Adenosquamous carcinoma
Massachusetts (BWH Pathology) - Adenosquamous carcinoma
Massachusetts, Peabody - Intraductal mucinous papillary carcinoma, pancreas
Massachusetts (UMass Memorial Residents) - Adenosquamous carcinoma of pancreas
Michigan, Caledonia - Pancreatic ductal adenocarcinoma
Michigan (Pathology Consultants of Port Huron) - Ductal adenocarcinoma
Minnesota (Fairview Ridges Hospital) - Adenosquamous carcinoma
Missouri (Missouri Delta Medical Center) - Poorly differentiated adenocarcinoma (1); Invasive adenocarcinoma of pancreas (1)
Nebraska (Creighton University Medical Center) - Adenosquamous carcinoma
New York (Albany Medical Center) - Mucoepidermoid carcinoma (2)
New York (Buffalo General Hospital) - Invasive adenocarcinoma arising in a mucinous cystic neoplasm
New York (Staten Island University Hospital) - Squamous cell carcinoma of pancreas
New York (SUNY Stony Brook University Hospital) - Adenosquamous carcinoma
New York (Westchester Medical Center) - Adenosquamous carcinoma (2)
North Carolina (North Carolina Baptist Hospital) - Adenosquamous carcinoma
North Carolina (Wake Forest University School of Medicine) - Adenosquamous carcinoma
Ohio (Cleveland Clinic Residents) - Adenosquamous carcinoma
Ohio, Union Town - Adenocarcinoma
Ohio (University of Toledo Medical Center) - Adenosquamous carcinoma
Pennsylvania (Conemaugh Memorial Hospital) - Adenosquamous carcinoma
Pennsylvania (Drexel University College of Medicine) - Ductal adenocarcinoma
Pennsylvania (Pennsylvania Hospital) - Adenosquamous carcinoma
Pittsburgh (Magee Women's Hospital) - Adenosquamous carcinoma
Puerto Rico (University of Puerto Rico) - Adenosquamous carcinoma

Texas, Crystal Beach - Ductal carcinoma consistent with comedo features
Texas, Houston - Adenosquamous carcinoma
Texas, Lubbock - Ductal adenocarcinoma
Washington (Seattle VAMC) - Carcinoma consistent with mucoepidermoid growth pattern
West Virginia (Greenbrier Valley Medical Center) - Ductal adenocarcinoma
Australia (Royal Hobart Hospital) - Adenosquamous carcinoma, pancreas
Australia (St. Vincent's Hospital) - Adenosquamous carcinoma, pancreas
Australia (Sullivan Nicolaides Pathology) - Poorly differentiated ductal adenocarcinoma, pancreas
Canada (Pasqua Hospital) - Adenosquamous carcinoma
Canada (Saint-Antoine/Richeueu) - Adenosquamous carcinoma
Canada (University of Sherbrooke) - Adenosquamous carcinoma
Ireland (Kerry General Hospital) - Ductal adenocarcinoma of pancreas
Ireland (University Hospital Galway) - Pancreatic ductal carcinoma, adenosquamous variant
Japan (Aichi Medical University) - Adenosquamous carcinoma
Japan (Asahi General Hospital) - Adenosquamous carcinoma of the pancreas (2)
Japan, Setagaya-ku - Mucoepidermoid carcinoma
Japan (Shizuoka Tokushukei Hospital) - Adenosquamous carcinoma
Japan (University of Yamanashi) - Adenosquamous carcinoma
Oman (Khoula Hospital) - Ductal adenocarcinoma
Saudi Arabia (King Khalid University Hospital) - Adenosquamous carcinoma
Singapore (Freelance/Locum Practice) - Adenosquamous carcinoma
Singapore (Singapore General Hospital) - Ductal adenocarcinoma

Case 3 - Diagnosis:

Adenosquamous carcinoma, pancreas
 T-59000, M-85603

Case 3 - References:

Adenosquamous carcinoma of the pancreas: a clinicopathologic series of 25 cases. *Mod Pathol* 2001; May;14(5): p443-51. Kardon DE; Thompson LD; Przygodzki RM; Heffess CS.

 Adenosquamous carcinoma of the pancreas: cytologic features in 14 cases. *Cancer* 2003; Dec 25;99(6): p372-8. Rahemtullah A; Misdraji J; Pitman MB.

 Pancreatobiliary adenosquamous carcinoma (report of two cases). *Pathologica* 2000; Oct;92(5): p323-6. Yavuz E; Kapran Y; Ozden I; Bulut T; Dizdaroglu F.

 Clinicopathologic features and outcomes following surgery for pancreatic adenosquamous carcinoma. *World J Surg Oncol* 2008;6:95. Hsu JT; Chen HM; Wu RC; Yeh CN; Yeh TS; Hwang TL; Jan YY; Chen MF.

 Adenosquamous carcinoma of the pancreas with an acantholytic pattern together with osteoclast-like and pleomorphic giant cells. *J Clin Pathol* 2005; Sep;58(9): p987-90. Alwaheeb S; Chetty R.

Case No. 4, Accession No. 31181

November 2010

Fontana (Kaiser Foundation Hospital) - Adenoma
Glendale - Hepatic adenoma
Hayward (St. Rose Hospital) - Hepatic adenoma with anabolic steroid use
Long Beach (Long Beach Veterans Hospital) - Hepatic adenoma
Oxnard (St. John's Regional Medical Center) - Adenoma (1); Hepatocellular adenoma (2)
San Diego (Naval Medical Center) - Hepatic adenoma
Santa Barbara (Miramonte Laboratories) - Focal nodular hyperplasia
Woodland Hills (Kaiser Permanente) - Hepatic adenoma
Arkansas (Associated Pathologist's Laboratory) - Hepatocellular adenoma (liver cell adenoma)
Colorado (McKee Medical Center) - Hepatocellular carcinoma

Florida (Gastro Enterology Association of Ocala) - Hepatic adenoma
Florida, Tallahassee - Hepatocellular carcinoma
Florida (Naples Pathology Associates) - Hepatocellular adenoma
Georgia, Atlanta - Hepatic adenoma
Illinois, Chicago - Hepatic adenoma (2)
Illinois (Heartland Regional Medical Center) - Hepatocellular adenoma
Indiana (Ball Memorial Hospital Residents) - Hepatic adenoma
Maryland (University of Maryland) - Hepatic adenoma
Massachusetts (BWH Pathology) - Hepatocellular adenoma
Massachusetts, Peabody - Focal nodular hyperplasia, liver
Massachusetts (UMass Memorial Residents) - Hepatocellular adenoma
Michigan, Caledonia - Liver adenoma
Michigan (Pathology Consultants of Port Huron) - Hepatocellular adenoma
Minnesota (Fairview Ridges Hospital) - Hepatocellular adenoma, elangiectatic
Missouri (Missouri Delta Medical Center) - Hepatocellular adenoma (2)
Nebraska (Creighton University Medical Center) - Hepatic adenoma
New York (Albany Medical Center) - Hepatic adenoma (2)
New York (Buffalo General Hospital) - Hepatocellular adenoma
New York (Staten Island University Hospital) - Focal nodular hyperplasia
New York (SUNY Stony Brook University Hospital) - Hepatocellular adenoma
New York (Westchester Medical Center) - Focal nodular hyperplasia (2)
North Carolina (North Carolina Baptist Hospital) - Hepatic adenoma
North Carolina (Wake Forest University School of Medicine) - Hepatic adenoma
Ohio (Cleveland Clinic Residents) - Hepatic adenoma
Ohio, Union Town - Hepatic adenoma
Ohio (University of Toledo Medical Center) - Hepatocellular adenoma
Pennsylvania (Conemaugh Memorial Hospital) - Hepatocellular adenoma
Pennsylvania (Drexel University College of Medicine) - Well-differentiated hepatocellular carcinoma
Pennsylvania (Pennsylvania Hospital) - Hepatic adenoma
Pittsburgh (Magee Women's Hospital) - Hepatic adenoma
Puerto Rico (University of Puerto Rico) - Hepatic adenoma
Texas, Crystal Beach - Hepatocellular adenoma
Texas, Houston - Hepatocellular adenoma
Texas, Lubbock - Adenoma
Washington (Seattle VAMC) - Adenoma, liver
West Virginia (Greenbrier Valley Medical Center) - Hepatocellular adenoma
Australia (Royal Hobart Hospital) - Hepatic adenoma
Australia (St. Vincent's Hospital) - Hepatocellular carcinoma
Australia (Sullivan Nicolaides Pathology) - Hepatocellular adenoma
Canada (Pasqua Hospital) - Hepatocellular adenoma
Canada (Saint-Antoine/Richeueu) - Hepatic adenoma
Canada (University of Sherbrooke) - Hepatocellular adenoma
Ireland (Kerry General Hospital) - Liver cell adenoma
Ireland (University Hospital Galway) - Hepatocellular carcinoma
Japan (Aichi Medical University) - Liver cell adenoma
Japan (Asahi General Hospital) - Focal nodal hyperplasia of the liver (1); Hepatocellular adenoma (1)
Japan, Setagaya-ku - Nodular regenerative hyperplasia
Japan (Shizuoka Tokushukei Hospital) - Hepatocellular adenoma
Japan (University of Yamanashi) - Hepatic adenoma
Oman (Khoula Hospital) - Hepatocellular adenoma
Saudi Arabia (King Khalid University Hospital) - Hepatocellular adenoma
Singapore (Freelance/Locum Practice) - Well-differentiated hepatocellular lesion, favor liver cell adenoma
Singapore (Singapore General Hospital) - Hepatocellular adenoma

Case 4 - Diagnosis:

Liver cell adenoma/hepatic adenoma, likely steroid-use related
 T-56000, D-6357

Case 4 - References:

Focal nodular hyperplasia and hepatic adenoma: a review. *Ann Hepatol* 2006; Jul-Sep;5(3): p206-11. Lizardi-Cervera J; Cuellar-Gamboa L; Motola-Kuba D.

Hepatic adenomatosis. *Arch Pathol Lab Med* 2008; Dec;132(12): p1951-5 Greaves WO; Bhattacharya B.

Histological patterns in drug-induced liver disease. *J Clin Pathol* 2009; Jun;62(6): p481-92 Ramachandran R; Kakar S.

Hepatocellular adenomas: magnetic resonance imaging features as a function of molecular pathological classification. *Hepatology* 2008; Sep;48(3): p808-18. Laumonier H; Bioulac-Sage P; et al.

Hepatocellular adenomatosis is a rare entity that may mimic other hepatocellular lesions. *Ann Diagn Pathol* 2004; Feb;8(1): p43-9. Skarupa DJ; Ellison EC; et al.

Case No. 5, Accession No. 30969

November 2010

Fontana (Kaiser Foundation Hospital) - Hepatocellular carcinoma

Glendale - Hepatocellular carcinoma

Hayward (St. Rose Hospital) - Hepatocellular carcinoma

Long Beach (Long Beach Veterans Hospital) - Hepatocellular carcinoma

Oxnard (St. John's Regional Medical Center) - Hepatocellular carcinoma (3)

San Diego (Naval Medical Center) - Hepatocellular carcinoma

Santa Barbara (Miramonte Laboratories) - Well-differentiated hepatocellular carcinoma

Woodland Hills (Kaiser Permanente) - Hepatocellular carcinoma

Arkansas (Associated Pathologist's Laboratory) - Hepatocellular carcinoma

Colorado (McKee Medical Center) - Hepatocellular carcinoma

Florida (Gastro Enterology Association of Ocala) - Hepatocellular carcinoma, well-differentiated, clear cell variant

Florida, Tallahassee - Hepatocellular carcinoma

Florida (Naples Pathology Associates) - Hepatocellular carcinoma

Georgia, Atlanta - Hepatocellular carcinoma

Illinois, Chicago - Hepatocellular carcinoma

Illinois (Heartland Regional Medical Center) - Hepatocellular carcinoma

Indiana (Ball Memorial Hospital Residents) - Hepatocellular carcinoma

Maryland (University of Maryland) - Hepatocellular carcinoma with clear cell features

Massachusetts (BWH Pathology) - Hepatocellular carcinoma

Massachusetts, Peabody - Hepatocellular carcinoma, liver

Massachusetts (UMass Memorial Residents) - Hepatocellular carcinoma with clear cells

Michigan, Caledonia - Hepatocellular carcinoma, well-differentiated

Michigan (Pathology Consultants of Port Huron) - Hepatocellular carcinoma

Minnesota (Fairview Ridges Hospital) - Hepatocellular carcinoma

Missouri (Missouri Delta Medical Center) - Cirrhosis (2)

Nebraska (Creighton University Medical Center) - Hepatocellular carcinoma

New York (Albany Medical Center) - Hepatocellular carcinoma, poorly differentiated (2)

New York (Buffalo General Hospital) - Hepatocellular carcinoma, clear cell type

New York (Staten Island University Hospital) - Hepatocellular carcinoma

New York (SUNY Stony Brook University Hospital) - Hepatocellular carcinoma

New York (Westchester Medical Center) - Hepatocellular carcinoma (2)

North Carolina (North Carolina Baptist Hospital) - Cirrhosis with at least high-grade dysplasia nodule

North Carolina (Wake Forest University School of Medicine) - Hepatocellular carcinoma

Ohio (Cleveland Clinic Residents) - Hepatocellular carcinoma, clear cell variant

Ohio, Union Town - Hepatocellular carcinoma, grade 1

Ohio (University of Toledo Medical Center) - Hepatocellular carcinoma

Pennsylvania (Conemaugh Memorial Hospital) - Hepatocellular carcinoma

Pennsylvania (Drexel University College of Medicine) - Hepatocellular carcinoma

Pennsylvania (Pennsylvania Hospital) - Hepatocellular carcinoma
Pittsburgh (Magee Women's Hospital) - Hepatocellular carcinoma
Puerto Rico (University of Puerto Rico) - Hepatocellular carcinoma
Texas, Crystal Beach - High grade dysplastic nodule
Texas, Houston - Well-differentiated hepatocellular carcinoma
Texas, Lubbock - Hepatocellular carcinoma
Washington (Seattle VAMC) - Liver cell carcinoma
West Virginia (Greenbrier Valley Medical Center) - Hepatocellular dysplastic nodule
Australia (Royal Hobart Hospital) - Hepatocellular carcinoma
Australia (St. Vincent's Hospital) - Hepatocellular carcinoma
Australia (Sullivan Nicolaides Pathology) - Gastric hepatocellular carcinoma
Canada (Pasqua Hospital) - Hepatocellular carcinoma
Canada (Saint-Antoine/Richeueu) - Hepatocellular carcinoma
Canada (University of Sherbrooke) - Hepatocellular carcinoma
Ireland (Kerry General Hospital) - Hepatocellular carcinoma
Ireland (University Hospital Galway) - Hepatocellular carcinoma
Japan (Aichi Medical University) - Hepatocellular carcinoma
Japan (Asahi General Hospital) - Metastatic yolk-sac tumor originating in the testis (1); Hepatocellular carcinoma (1)
Japan, Setagaya-ku - Hepatocellular carcinoma
Japan (Shizuoka Tokushukei Hospital) - Hepatocellular carcinoma
Japan (University of Yamanashi) - Hepatocellular carcinoma
Oman (Khoula Hospital) - Hepatocellular carcinoma
Saudi Arabia (King Khalid University Hospital) - Hepatocellular carcinoma
Singapore (Freelance/Locum Practice) - Hepatocellular carcinoma, moderately differentiated
Singapore (Singapore General Hospital) - Hepatocellular carcinoma

Case 5 - Diagnosis:

Hepatocellular carcinoma, liver
 T-56000, M-81703

Case 5 - References:

Cancer stem cells in hepatocellular carcinoma: Recent progress and perspective. *Cancer Lett* 2009; Dec 28;286(2): p145-53. Chiba T; Kamiya A; et al.

 Proton beam therapy for hepatocellular carcinoma: the University of Tsukuba experience. *Cancer* 2009; Dec 1;115(23): p5499-506. Nakayama H; Sugahara S; et al.

 Outcome after curative resection for a huge (> or=10 cm) hepatocellular carcinoma and prognostic significance of gross tumor classification. *Am J Surg* 2009; Nov;198(5): p693-701. Choi GH; Han DH; et al.

 Current management of hepatocellular carcinoma. *Med Clin North Am* 2009; Jul;93(4): p885-900, viii. Mendizabal M; Reddy KR.

 Survival differences by race/ethnicity and treatment for localized hepatocellular carcinoma within the United States. *Dig Dis Sci* 2009; Sep;54(9): p2031-9. Wong RJ; Corley DA.

Case No. 6, Accession No. 31258

November 2010

Fontana (Kaiser Foundation Hospital) - Adenocarcinoma
Glendale - Signet ring cell carcinoma
Hayward (St. Rose Hospital) - Carcinoma, diffuse type
Long Beach (Long Beach Veterans Hospital) - Poorly differentiated adenocarcinoma
Oxnard (St. John's Regional Medical Center) - Adenocarcinoma (3)
San Diego (Naval Medical Center) - Gastric adenocarcinoma
Santa Barbara (Miramonte Laboratories) - Linitis plastica

Woodland Hills (Kaiser Permanente) - Poorly differentiated adenocarcinoma
Arkansas (Associated Pathologist's Laboratory) - Gastrointestinal stromal tumor
Colorado (McKee Medical Center) - Signet ring (poorly differentiated) carcinoma
Florida (Gastro Enterology Association of Ocala) - Adenocarcinoma, cirrhou, linitis plastica type
Florida, Tallahassee - Adenocarcinoma
Florida (Naples Pathology Associates) - Gastric adenocarcinoma, intestinal type
Georgia, Atlanta - Gastric adenocarcinoma
Illinois, Chicago - Diffuse type gastric adenocarcinoma (2)
Illinois (Heartland Regional Medical Center) - Adenocarcinoma
Indiana (Ball Memorial Hospital Residents) - Invasive adenocarcinoma
Maryland (University of Maryland) - Adenocarcinoma, diffuse type
Massachusetts (BWH Pathology) - Poorly differentiated adenocarcinoma (signet ring cell type)
Massachusetts, Peabody - Gastric carcinoma
Massachusetts (UMass Memorial Residents) - Poorly differentiated adenocarcinoma
Michigan, Caledonia - Gastric adenocarcinoma, diffuse type, with signet ring cells
Michigan (Pathology Consultants of Port Huron) - Malignant epithelioid gastric stromal tumor
Minnesota (Fairview Ridges Hospital) - Adenocarcinoma, tubular type, invasive
Missouri (Missouri Delta Medical Center) - Signet ring carcinoma (2)
Nebraska (Creighton University Medical Center) - Poorly differentiated adenocarcinoma with ring cells diffuse type
New York (Albany Medical Center) - Poorly differentiated adenocarcinoma with signet ring cell features (2)
New York (Buffalo General Hospital) - Gastric sarcoma
New York (Staten Island University Hospital) - Poorly differentiated gastric adenocarcinoma
New York (SUNY Stony Brook University Hospital) - Diffuse type of gastric carcinoma, mucin poor, eosinophilic variant
New York (Westchester Medical Center) - Poorly differentiated adenocarcinoma (2)
North Carolina (North Carolina Baptist Hospital) - Poorly differentiated adenocarcinoma with signet ring features
North Carolina (Wake Forest University School of Medicine) - Gastric adenocarcinoma, diffuse type
Ohio (Cleveland Clinic Residents) - Poorly differentiated gastric adenocarcinoma with signet ring differentiation
Ohio, Union Town - Adenocarcinoma, grade 3
Ohio (University of Toledo Medical Center) - Poorly differentiated carcinoma
Pennsylvania (Conemaugh Memorial Hospital) - Undifferentiated carcinoma of stomach (linitis plastica)
Pennsylvania (Drexel University College of Medicine) - Poorly differentiated adenocarcinoma
Pennsylvania (Pennsylvania Hospital) - Signet ring adenocarcinoma
Pittsburgh (Magee Women's Hospital) - Adenocarcinoma, diffuse type
Puerto Rico (University of Puerto Rico) - Gastric adenocarcinoma
Texas, Crystal Beach - Gastric carcinoma consistent with trabecular spindle cell features, rule out carcinoid tumor
Texas, Houston - Poorly differentiated adenocarcinoma (diffuse type)
Texas, Lubbock - Linitis plastica
Washington (Seattle VAMC) - Adenocarcinoma, diffuse gastric type
West Virginia (Greenbrier Valley Medical Center) - Adenocarcinoma
Australia (Royal Hobart Hospital) - Poorly differentiated adenocarcinoma, stomach
Australia (St. Vincent's Hospital) - Diffuse adenocarcinoma, stomach
Australia (Sullivan Nicolaides Pathology) - Gastric adenocarcinoma, diffuse type
Canada (Pasqua Hospital) - Adenocarcinoma
Canada (Saint-Antoine/Richeueu) - Signet ring cell adenocarcinoma
Canada (University of Sherbrooke) - Adenocarcinoma, poor differentiated
Ireland (Kerry General Hospital) - Signet ring carcinoma of stomach
Ireland (University Hospital Galway) - Diffuse type gastric adenocarcinoma with signet cells
Japan (Aichi Medical University) - Poorly differentiated adenocarcinoma
Japan (Asahi General Hospital) - Poorly differentiated adenocarcinoma with extensive fibrosis (1); Cirrhosis carcinoma (1)
Japan, Setagaya-ku - Poorly differentiated tubular adenocarcinoma
Japan (Shizuoka Tokushukei Hospital) - Hepatic adenocarcinoma
Japan (University of Yamanashi) - Poorly differentiated adenocarcinoma
Oman (Khoula Hospital) - Adenocarcinoma (diffuse type)
Saudi Arabia (King Khalid University Hospital) - Poorly differentiated gastric adenocarcinoma
Singapore (Freelance/Locum Practice) - Adenocarcinoma

Singapore (Singapore General Hospital) - Poorly differentiated adenocarcinoma (Lauren diffuse type)

Case 6- Diagnosis:

Poorly differentiated adenocarcinoma (signet-ring type), stomach
T-08450, M-84903

Case 6 - References:

Deeply eosinophilic cell variant of signet-ring type of gastric carcinoma: A diagnostic dilemma. *Int J Clin Oncol* 2008; Apr;13(2): p181-4. Gupta R; Arora R; et al.

Mucin-producing gastric cancer: clinicopathological difference between signet ring cell carcinoma and mucinous carcinoma. *Hepatogastroenterology* 2009; Jul-Aug;56(93): p1227-31. Fang WL; Wu CW; et al.

Signet ring cell carcinoma of the stomach: correlation between endocytoscopy and histology. *Endoscopy* 2009;41 Suppl 2:E65-6. Fasoli A; Pugliese V; et al.

Signet ring cells in gastric carcinomas are derived from neuroendocrine cells. *J Histochem Cytochem* 2006; Jun;54(6): p615-21. Bakkelund K; Fossmark R; et al.

Mucin profiles in signet-ring cell carcinoma. *Arch Pathol Lab Med* 2006; Jun;130(6): p799-804. Nguyen MD; Plasil B; et al.

Gastric cancer histology: clinicopathologic characteristics and prognostic value. *J Surg Oncol* 2008; Dec 1;98(7): p520-5. Park JM; Jang YJ; et al.

Case No. 7, Accession No. 31200

November 2010

Fontana (Kaiser Foundation Hospital) - Lymphoepithelioma

Glendale - Lymphoepithelioma carcinoma

Hayward (St. Rose Hospital) - Poorly differentiated carcinoma consistent with hepatic carcinoma

Long Beach (Long Beach Veterans Hospital) - Poorly differentiated carcinoma, lymphoepithelioid

Oxnard (St. John's Regional Medical Center) - Poorly differentiated carcinoma (1); Lymphoepithelioma-like carcinoma (1); Undifferentiated carcinoma (lymphoepithelioma-like tumor (1)

San Diego (Naval Medical Center) - Lymphoepithelioma-like carcinoma

Santa Barbara (Miramonte Laboratories) - Medullary carcinoma

Woodland Hills (Kaiser Permanente) - Lymphoepithelioma-like carcinoma

Arkansas (Associated Pathologist's Laboratory) - Metastatic nasopharyngeal carcinoma

Colorado (McKee Medical Center) - Lymphoepithelioma-like carcinoma

Florida (Gastro Enterology Association of Ocala) - Acinar cell carcinoma

Florida, Tallahassee - Lymphoepithelioma

Florida (Naples Pathology Associates) - Lymphoepithelioma-like carcinoma

Georgia, Atlanta - Lymphoepithelial carcinoma

Illinois, Chicago - Malignant melanoma (2)

Illinois (Heartland Regional Medical Center) - Lymphoepithelial carcinoma

Indiana (Ball Memorial Hospital Residents) - Lymphoepithelial carcinoma

Maryland (University of Maryland) - Lymphoepithelial-like carcinoma

Massachusetts (BWH Pathology) - EBV associated undifferentiated carcinoma

Massachusetts, Peabody - Malignant lymphoma, duodenum

Massachusetts (UMass Memorial Residents) - Lymphoepithelioma-like carcinoma

Michigan, Caledonia - Lymphoepithelioma-like carcinoma of duodenum

Michigan (Pathology Consultants of Port Huron) - Lymphoepithelioma-like carcinoma

Minnesota (Fairview Ridges Hospital) - Lymphoepithelioma-like carcinoma

Missouri (Missouri Delta Medical Center) - Malignant lymphoma, large cell type (2)

Nebraska (Creighton University Medical Center) - Lymphoepithelial carcinoma

New York (Albany Medical Center) - Lymphoepithelioma-like carcinoma (2)

New York (Buffalo General Hospital) - EBV positive lymphoepithelioma-like carcinoma
New York (Staten Island University Hospital) - Metastatic pancreatic and biliary adenocarcinoma
New York (SUNY Stony Brook University Hospital) - Lymphoepithelial carcinoma
New York (Westchester Medical Center) - Lymphoepithelial carcinoma (2)
North Carolina (North Carolina Baptist Hospital) - Lymphoepithelial carcinoma
North Carolina (Wake Forest University School of Medicine) - Lymphoepithelial-like carcinoma
Ohio (Cleveland Clinic Residents) - Lymphoepithelioma-like carcinoma
Ohio, Union Town - Medullary carcinoma
Ohio (University of Toledo Medical Center) - Lymphoepithelioma-like carcinoma
Pennsylvania (Conemaugh Memorial Hospital) - Lymphoepithelioma-like carcinoma
Pennsylvania (Drexel University College of Medicine) - Lymphoepithelial carcinoma
Pennsylvania (Pennsylvania Hospital) - Lymphoepithelial carcinoma
Pittsburgh (Magee Women's Hospital) - Lymphoepithelial carcinoma
Puerto Rico (University of Puerto Rico) - Lymphoepithelioma-like carcinoma/metastatic acinar carcinoma
Texas, Crystal Beach - Acinar cell carcinoma, pancreas
Texas, Houston - Adenocarcinoma
Texas, Lubbock - Lymphoepithelial carcinoma
Washington (Seattle VAMC) - Lymphoepithelioma-like growth
West Virginia (Greenbrier Valley Medical Center) - Carcinoid tumor (neuroendocrine carcinoma)
Australia (Royal Hobart Hospital) - Poorly differentiated carcinoma, pancreas (lymphoepithelial-like)
Australia (St. Vincent's Hospital) - Lymphoepithelial carcinoma
Australia (Sullivan Nicolaides Pathology) - Lymphoepithelioma-like carcinoma
Canada (Pasqua Hospital) - Lymphoepithelioma-like carcinoma
Canada (Saint-Antoine/Richeueu) - Medullary carcinoma
Canada (University of Sherbrooke) - Lymphoepithelial carcinoma EBV +
Ireland (Kerry General Hospital) - Lymphoepithelial carcinoma
Ireland (University Hospital Galway) - Lymphoepithelioma-like carcinoma
Japan (Aichi Medical University) - Lymphoepithelioma-like carcinoma
Japan (Asahi General Hospital) - Adenocarcinoma with lymphoid stroma (EBV-associated) (1); Reactive
 fibroinflammatory pseudotumor (1)
Japan, Setagaya-ku - Poorly differentiated adenocarcinoma (lymphoepithelioma-like)
Japan (Shizuoka Tokushukei Hospital) - Medullary carcinoma
Japan (University of Yamanashi) - EBV-associated duodenal carcinoma
Oman (Khoula Hospital) - Undifferentiated carcinoma
Saudi Arabia (King Khalid University Hospital) - Lymphoepithelioma-like carcinoma
Singapore (Freelance/Locum Practice) - Lymphoepithelioma-like carcinoma
Singapore (Singapore General Hospital) - Lymphoepithelioma-like carcinoma

Case 7 - Diagnosis:

Lymphoepithelial carcinoma, duodenum and pancreas
 T-59000/64300, M-80823

Director's Note: Lymphoepithelial carcinoma of the G.I. tract is extremely rare, and has virtually no references in the literature over the past 10 years. (drc)

Outside Consultation: Stanford University Consultation; "Lymphoepithelial carcinoma".

Case 7 - References:

Epstein-Barr virus-associated lymphoepithelial carcinoma in the pancreas. *Pancreas* 2004; Jan;28(1): p98-102. Kekis PB; Murtin C; et al.

Pathology quiz case 2. Lymphoepithelial carcinoma (LEC) with a focal conventional squamous cell carcinoma (SCC) component. *Arch Otolaryngol Head Neck Surg* 2003; Mar;129(3): p370, 372. Milne H; Ionescu D; et al.

Fontana (Kaiser Foundation Hospital) - Adenocarcinoma
Glendale - Solitary rectal ulcer syndrome
Hayward (St. Rose Hospital) - Mucinous adenoma
Long Beach (Long Beach Veterans Hospital) - Adenocarcinoma with mucinous component
Oxnard (St. John's Regional Medical Center) - Inflammatory myoglandular polyp (3)
San Diego (Naval Medical Center) - Colonic adenoma with pseudoinvasion (colitis cystica profusa)
Santa Barbara (Miramonte Laboratories) - Mucinous carcinoma
Woodland Hills (Kaiser Permanente) - Well-differentiated adenocarcinoma with mucinous features
Arkansas (Associated Pathologist's Laboratory) - Peutz-Jeghers polyp
Colorado (McKee Medical Center) - Hamartomatous polyp
Florida (Gastro Enterology Association of Ocala) - Adenocarcinoma, focally invasive, in tubular adenoma
Florida, Tallahassee - Mucinous adenocarcinoma
Florida (Naples Pathology Associates) - Colonic adenocarcinoma
Georgia, Atlanta - Hamartomatous polyp
Illinois, Chicago - Tubulovillous adenoma (2)
Illinois (Heartland Regional Medical Center) - Adenocarcinoma, well-differentiated
Indiana (Ball Memorial Hospital Residents) - Adenocarcinoma arising in a Peutz-Jeghers polyp
Maryland (University of Maryland) - Invasive mucinous adenocarcinoma arising in a polyp
Massachusetts (BWH Pathology) - Colonic adenocarcinoma
Massachusetts, Peabody - Villous carcinoma, colon
Massachusetts (UMass Memorial Residents) - Peutz-Jeghers polyp with pseudoinvasion
Michigan, Caledonia - (Traditional) serrated adenoma with mucosal prolapse
Michigan (Pathology Consultants of Port Huron) - Juvenile polyp
Minnesota (Fairview Ridges Hospital) - Hamartomatous polyp
Missouri (Missouri Delta Medical Center) - Mucinous carcinoma (1); Villous adenoma (1)
Nebraska (Creighton University Medical Center) - Colonal carcinoma
New York (Albany Medical Center) - Tubulovillous adenoma with microinvasion (2)
New York (Buffalo General Hospital) - Secretory villous adenoma
New York (Staten Island University Hospital) - Mucinous adenocarcinoma
New York (SUNY Stony Brook University Hospital) - Adenocarcinoma arising in a Peutz Jegher polyp
New York (Westchester Medical Center) - Adenocarcinoma (2)
North Carolina (North Carolina Baptist Hospital) - Mucinous adenocarcinoma
North Carolina (Wake Forest University School of Medicine) - Mucinous adenocarcinoma
Ohio (Cleveland Clinic Residents) - Adenoma with misplaced epithelium
Ohio, Union Town - Hamartomatous polyp
Ohio (University of Toledo Medical Center) - Adenocarcinoma with mucinous differentiation
Pennsylvania (Conemaugh Memorial Hospital) - Intramucosa adenocarcinoma, muco colloid type
Pennsylvania (Drexel University College of Medicine) - Adenocarcinoma
Pennsylvania (Pennsylvania Hospital) - Colonic adenocarcinoma arising in a sessile serrated adenoma
Pittsburgh (Magee Women's Hospital) - Invasive mucinous adenocarcinoma
Puerto Rico (University of Puerto Rico) - Mucinous adenocarcinoma
Texas, Crystal Beach - Early adenocarcinoma in tubular adenomatous polyp
Texas, Houston - Serrated adenoma
Texas, Lubbock - Mucinous carcinoma arising from a villous polyp
Washington (Seattle VAMC) - Adenocarcinoma
West Virginia (Greenbrier Valley Medical Center) - Mucinous producing adenocarcinoma
Australia (Royal Hobart Hospital) - Well-differentiated adenocarcinoma, colon
Australia (St. Vincent's Hospital) - Colon-mucinous adenocarcinoma arising in tubulovillous adenoma
Australia (Sullivan Nicolaides Pathology) - Mucinous adenocarcinoma, colon
Canada (Pasqua Hospital) - Adenocarcinoma
Canada (Saint-Antoine/Richeueu) - Hamartomatous polyp with epithelial misplacement
Canada (University of Sherbrooke) - Mucinous adenocarcinoma
Ireland (Kerry General Hospital) - Villous adenoma
Ireland (University Hospital Galway) - Invasive mucinous carcinoma
Japan (Aichi Medical University) - Mucinous adenocarcinoma

Japan (Asahi General Hospital) - Serrated adenoma with mild dysplasia (1); Colitis cystica profunda (1)
Japan, Setagaya-ku - Tubular adenoma
Japan (Shizuoka Tokushukai Hospital) - Mucinous carcinoma
Japan (University of Yamanashi) - Adenocarcinoma
Oman (Khoulia Hospital) - Well-differentiated adenocarcinoma (mucinous carcinoma)
Saudi Arabia (King Khalid University Hospital) - Mucinous adenocarcinoma
Singapore (Freelance/Locum Practice) - Sessile serrated adenoma
Singapore (Singapore General Hospital) - Well-differentiated adenocarcinoma arising in a villous adenoma

Case 8 - Diagnosis:

Superficial mucinous adenocarcinoma, colon
 T-67000, M-81403

Case 8 - References:

Clinicopathological characteristics of mucinous carcinoma of the colon and rectum. *J Surg Oncol* 2000; Oct;75(2): p103-7. Nozoe T; Anai H; et al.
 [Is mucinous colorectal adenocarcinoma a distinct entity? *Gastroenterol Hepatol* 2002; Nov;25(9): p534-40. Adell R; Marcote E; et al.
 Mucinous colorectal carcinoma. *J Surg Oncol* 2001; Aug;77(4): p282-3. Sugarbaker PH.
 Mucinous colon cancer. *Gastrointest Endosc* 2001; Mar;53(3): p339. Chang HS; Myung SJ; Yang SK.
 Prognostic significance of mucinous component in colorectal carcinoma. *Tech Coloproctol* 2004; Nov;8 Suppl 1:s123-5. Papadopoulos VN; Michalopoulos A; Netta S; Basdanis G; Paramythiotis D; Zatagias A; Berovalis P; Harlaftis N.
 Mucin-secreting neoplastic polyp: a unique endoscopic presentation of early colon cancer. *Endoscopy* 2007; Feb;39 Suppl 1:E201 Fu K; Ishikawa T; et al.
 Distinguishing benign dissecting mucin (stromal mucin pools) from invasive mucinous carcinoma. *Adv Anat Pathol* 2008; Jan;15(1): p1-17. Molavi D; Argani P.

Case No. 9, Accession No. 31244

November 2010

Fontana (Kaiser Foundation Hospital) - Metastatic colon carcinoma
Glendale - Metastatic colorectal adenocarcinoma
Hayward (St. Rose Hospital) - Adenocarcinoma, colonic type
Long Beach (Long Beach Veterans Hospital) - Metastatic adenocarcinoma
Oxnard (St. John's Regional Medical Center) - Metastatic adenocarcinoma (3)
San Diego (Naval Medical Center) - Metastatic colon adenocarcinoma
Santa Barbara (Miramonte Laboratories) - Metastatic colon carcinoma
Woodland Hills (Kaiser Permanente) - Metastatic colon adenocarcinoma
Arkansas (Associated Pathologist's Laboratory) - Metastatic adenocarcinoma of colon
Colorado (McKee Medical Center) - Metastatic carcinoma, possible colonic origin
Florida (Gastro Enterology Association of Ocala) - Adenocarcinoma, well-differentiated
Florida, Tallahassee - Metastatic adenocarcinoma
Florida (Naples Pathology Associates) - Metastatic colonic adenocarcinoma
Georgia, Atlanta - Metastatic colorectal carcinoma
Illinois, Chicago - Metastatic colon carcinoma (2)
Illinois (Heartland Regional Medical Center) - Adenocarcinoma, consistent with metastatic carcinoma of colon origin
Indiana (Ball Memorial Hospital Residents) - Metastatic colonic adenocarcinoma
Maryland (University of Maryland) - Metastatic colon adenocarcinoma
Massachusetts (BWH Pathology) - Metastatic colonic adenocarcinoma
Massachusetts, Peabody - Metastatic carcinoma, liver

Massachusetts (UMass Memorial Residents) - Metastatic adenocarcinoma
Michigan, Caledonia - (Primary) cholangiocarcinoma, liver
Michigan (Pathology Consultants of Port Huron) - Metastatic colon cancer
Minnesota (Fairview Ridges Hospital) - Metastatic adenocarcinoma, colon origin
Missouri (Missouri Delta Medical Center) - Metastatic carcinoma (1); Invasive moderately differentiated adenocarcinoma (1)
Nebraska (Creighton University Medical Center) - Metastatic adenocarcinoma of the liver
New York (Albany Medical Center) - Metastatic colon cancer (2)
New York (Buffalo General Hospital) - Metastatic adenocarcinoma, favor colonic origin
New York (Staten Island University Hospital) - Metastatic adenocarcinoma, colorectal primary
New York (SUNY Stony Brook University Hospital) - Metastatic carcinoma, consistent with a colonic primary
New York (Westchester Medical Center) - Metastatic colonic carcinoma (2)
North Carolina (North Carolina Baptist Hospital) - Metastatic colonic adenocarcinoma
North Carolina (Wake Forest University School of Medicine) - Metastatic adenocarcinoma
Ohio (Cleveland Clinic Residents) - Metastatic adenocarcinoma
Ohio, Union Town - Metastatic colon carcinoma
Ohio (University of Toledo Medical Center) - Metastatic adenocarcinoma
Pennsylvania (Conemaugh Memorial Hospital) - Metastatic colonic carcinoma
Pennsylvania (Drexel University College of Medicine) - Metastatic adenocarcinoma
Pennsylvania (Pennsylvania Hospital) - Metastatic colonic adenocarcinoma
Pittsburgh (Magee Women's Hospital) - Metastatic colon adenocarcinoma
Puerto Rico (University of Puerto Rico) - Metastatic adenocarcinoma
Texas, Crystal Beach - Adenocarcinoma colonic type, metastatic
Texas, Houston - Adenocarcinoma
Texas, Lubbock - Metastatic colon adenocarcinoma
Washington (Seattle VAMC) - Metastatic colonic adenocarcinoma
West Virginia (Greenbrier Valley Medical Center) - Metastatic carcinoma, colonic origin
Australia (Royal Hobart Hospital) - Metastatic adenocarcinoma of colon
Australia (St. Vincent's Hospital) - Metastatic colonic adenocarcinoma, liver
Australia (Sullivan Nicolaides Pathology) - Metastatic colonic adenocarcinoma
Canada (Pasqua Hospital) - Metastatic adenocarcinoma
Canada (Saint-Antoine/Richeueu) - Metastatic colonic adenocarcinoma/liver amyloidosis
Canada (University of Sherbrooke) - Adenocarcinoma (metastasis)
Ireland (Kerry General Hospital) - Metastatic adenocarcinoma
Ireland (University Hospital Galway) - Metastatic colorectal adenocarcinoma
Japan (Aichi Medical University) - Metastatic colonic adenocarcinoma
Japan (Asahi General Hospital) - Metastatic adenocarcinoma (2)
Japan, Setagaya-ku - Adenocarcinoma, tubular, metastatic, colonic origin
Japan (Shizuoka Tokushukai Hospital) - Metastatic adenocarcinoma
Japan (University of Yamanashi) - Metastatic adenocarcinoma
Oman (Khoulia Hospital) - Metastatic adenocarcinoma, intrahepatic cholangiocarcinoma
Saudi Arabia (King Khalid University Hospital) - Metastatic colonic adenocarcinoma
Singapore (Freelance/Locum Practice) - Metastatic adenocarcinoma
Singapore (Singapore General Hospital) - Metastatic adenocarcinoma consistent with colonic origin

Case 9 - Diagnosis:

Metastatic colon adenocarcinoma to liver
 T-56000, M-81403

Case 9 - References:

[A case of metastatic colon cancer to paraaortic lymph nodes and liver treated successfully with oxaliplatin combination chemotherapy. *Gan To Kagaku Ryoho* 2007; Jul;34(7): p1135-7 Hoshina K; Kobayashi I; et al.]

Genomic profile of colon cancer metastases. *Anticancer Res* 2008; Nov-Dec;28(6A): p3609-1. Zeitoun G; Mourra N; et al.

Identification of sentinel nodes in patients with colon cancer. *Eur J Surg Oncol* 2005; May;31(4): p381-5 Dahl K; Westlin J; et al.

Intrahepatic extramedullary hematopoietic tumor mimicking metastatic carcinoma from a colonic primary. *Onkologie* 2004; Feb;27(1): p65-7 Tamiolakis D; Venizelos J; et al.

[A case of hepatic metastasis from colon cancer successfully treated with 5-FU, levofolinate (l-LV) and low-dose CPT-11]. *Gan To Kagaku Ryoho* 2004; Aug;31(8): p1245-7. Harada O; Kobayashi M; et al.

Case No. 10, Accession No. 31285

November 2010

Fontana (Kaiser Foundation Hospital) - Burkitt lymphoma
Glendale - Burkitt lymphoma
Hayward (St. Rose Hospital) - Malignant lymphoma, probably enteropathy type T-cell
Long Beach (Long Beach Veterans Hospital) - Burkitt lymphoma
Oxnard (St. John's Regional Medical Center) - Lymphoma (3)
San Diego (Naval Medical Center) - Burkitt lymphoma
Santa Barbara (Miramonte Laboratories) - Burkitt lymphoma
Woodland Hills (Kaiser Permanente) - Burkitt lymphoma
Arkansas (Associated Pathologist's Laboratory) - Burkitt lymphoma
Colorado (McKee Medical Center) - Non-Hodgkin lymphoma
Florida (Gastro Enterology Association of Ocala) - Enteropathy-type interstitial T-cell lymphoma
Florida, Tallahassee - Lymphoma, get c-myc
Florida (Naples Pathology Associates) - Lymphoma
Georgia, Atlanta - High grade lymphoma, rule out Burkitt lymphoma
Illinois, Chicago - Burkitt lymphoma (2)
Illinois (Heartland Regional Medical Center) - Lymphoma, favor Burkitt lymphoma
Indiana (Ball Memorial Hospital Residents) - Non-Hodgkin lymphoma suggestive of Burkitt lymphoma
Maryland (University of Maryland) - Favor lymphoma, further workup
Massachusetts (BWH Pathology) - MALT lymphoma
Massachusetts, Peabody - Malignant lymphoma terminal ileum
Massachusetts (UMass Memorial Residents) - Burkitt lymphoma of colon
Michigan, Caledonia - Lymphoma, Burkitt-like
Michigan (Pathology Consultants of Port Huron) - Malignant lymphoma (probable marginal zone)
Minnesota (Fairview Ridges Hospital) - Burkitt lymphoma
Missouri (Missouri Delta Medical Center) - Burkitt lymphoma (2)
Nebraska (Creighton University Medical Center) - Burkitt lymphoma
New York (Albany Medical Center) - Burkitt lymphoma (2)
New York (Buffalo General Hospital) - Immunoproliferative small intestinal disease
New York (Staten Island University Hospital) - MALT lymphoma
New York (SUNY Stony Brook University Hospital) - Burkitt lymphoma
New York (Westchester Medical Center) - Lymphoma (2)
North Carolina (North Carolina Baptist Hospital) - Enteropathy associated T-cell lymphoma
North Carolina (Wake Forest University School of Medicine) - High grade lymphoma, favor Burkitt lymphoma
Ohio (Cleveland Clinic Residents) - Burkitt lymphoma
Ohio, Union Town - Burkitt-type high grade lymphoma
Ohio (University of Toledo Medical Center) - Burkitt lymphoma
Pennsylvania (Conemaugh Memorial Hospital) - Malignant lymphoma, Burkitt lymphoma
Pennsylvania (Drexel University College of Medicine) - Burkitt lymphoma
Pennsylvania (Pennsylvania Hospital) - Burkitt lymphoma
Pittsburgh (Magee Women's Hospital) - Malignant lymphoma, Burkitt-type
Puerto Rico (University of Puerto Rico) - Lymphoma probably Burkitt/B-cell lymphoma, unclassifiable with features intermediate between diffuse large B-cell lymphoma and Burkitt lymphoma
Texas, Crystal Beach - Lymphoma

Texas, Houston - Lymphoproliferative disorder, rule out plasmacytoma
Texas, Lubbock - Burkitt lymphoma
Washington (Seattle VAMC) - Malignant lymphoma
West Virginia (Greenbrier Valley Medical Center) - Malignant lymphoma, NOS
Australia (Royal Hobart Hospital) - High grade non-Hodgkin lymphoma (probable Burkitt lymphoma)
Australia (St. Vincent's Hospital) - High grade lymphoma favor Burkitt
Australia (Sullivan Nicolaides Pathology) - Burkitt lymphoma
Canada (Pasqua Hospital) - Burkitt lymphoma
Canada (Saint-Antoine/Richeueu) - Lymphoma/Burkitt with plasmacytoid differentiation
Canada (University of Sherbrooke) - Non-Hodgkin lymphoma, MALT type
Ireland (Kerry General Hospital) - B-cell lymphoma, Burkitt
Ireland (University Hospital Galway) - Burkitt lymphoma
Japan (Aichi Medical University) - Burkitt lymphoma
Japan (Asahi General Hospital) - Burkitt lymphoma (1); Enteropathy-associated T-cell lymphoma (1)
Japan, Setagaya-ku - Malignant lymphoma
Japan (Shizuoka Tokushukei Hospital) - Burkitt lymphoma
Japan (University of Yamanashi) - Malignant lymphoma
Oman (Khoulia Hospital) - Burkitt lymphoma
Saudi Arabia (King Khalid University Hospital) - High grade non-Hodgkin's lymphoma
Singapore (Freelance/Locum Practice) - Non-Hodgkin lymphoma
Singapore (Singapore General Hospital) - Burkitt lymphoma

Case 10 - Diagnosis:

Burkitt lymphoma, colon/ileum
 T-67000, M-97503

Case 10 - References:

Epstein-Barr virus sustains Burkitt's lymphomas and Hodgkin's disease. *Trends Mol Med* 2004; Jul;10(7): p331-6.
 Hammerschmidt W; Sugden B.

Epstein-Barr virus provides a survival factor to Burkitt's lymphomas. *Proc Natl Acad Sci U S A* 2003; Nov 25;100(24):
 p14269-74. Kennedy G; Komano J; Sugden B.

From Burkitt's lymphoma to chronic active Epstein-Barr virus (EBV) infection: an expanding spectrum of EBV-
 associated diseases. *Pediatr Hematol Oncol* 2001; Oct-Nov;18(7): p427-4. Okano M; Gross TG.

Burkitt lymphoma versus diffuse large B-cell lymphoma: a practical approach. *Hematol Oncol* 2009; Dec;27(4): p182-
 5. Bellan C; Stefano L; Giulia de F; Rogena EA; Lorenzo L.

Burkitt lymphoma. *Diagn Cytopathol* 2008; Mar;36(3): p172-3. Stelow EB; Policarpio-Nicolas ML; Sudduth KW; Le
 Gallo RD.