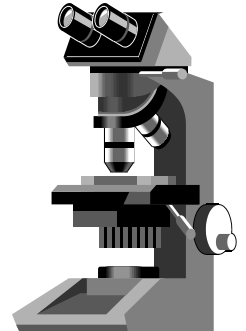


CALIFORNIA
TUMOR TISSUE REGISTRY

“TUMORS OF THE GI & HEPATOBILIARY TRACTS”

Minutes – Subscription B

March 2002



SUGGESTED READING (General Topics from Recent Literature):

- Proliferating Cell Nuclear Antigen as a Marker of Cell Kinetics in Aberrant Crypt Foci, Hyperplastic Polyps, Adenomas, and Adenocarcinomas of the Human Colon. Shpitz B, Bomstein Y, Mekori Y, et al. *Am J Surg*. 1997 Oct; 174(4):425-30.
- Primary CD56 Positive Lymphomas of the Gastrointestinal Tract. Chim CS, Au WY, Shek TW, et al. *Cancer*. 2001 Feb 1; 91(3):525-33.
- Percent Prostate Needle Biopsy Tissue With Cancer Is More Predictive of Biochemical Failure or Adverse Pathology After Radical Prostatectomy Than Prostate Specific Antigen or Gleason Score. Freedland SJ, Csathy GS, et al. *J Urol* 2002; 167 (February):516-520.
- Intraductal Papillary-Mucinous Neoplasms of the Pancreas: An Analysis of In Situ and Invasive Carcinomas in 28 Patients. Adsay NV, Conlon KC, et al. *Cancer* 2002; 94 (January):62-77.
- Expression of Cytokeratin 5/6 in Epithelial Neoplasms: An Immunohistochemical Study of 509 Cases. Chu PG, Weiss LM. *Mod Pathol* 2002; 15(1):6-10.

California Tumor Tissue Registry
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Web site, Case of the Month & Monthly Case Diagnoses: www.cttr.org

FILE DIAGNOSES

CTTR Subscription B

March 2002

Case 1:

Hepatobiliary cystadenoma, liver

T-5600, M-84403

Case 2:

Lymphoepithelial Cyst (“Dermoid Cyst”), Pancreas

T-5900, M-90840

Case 3:

Serous cystadenoma (“Microcystic adenoma”), pancreas

T-59000, M-84400

Case 4:

Malignant epithelioid gastrointestinal stromal tumor (GIST), stomach

T-6300, M-8000/1

Case 5:

Myxoid smooth muscle tumor, likely leiomyosarcoma, jejunum

T-65100, M-8000/1

Case 6:

Hepatocellular carcinoma, liver

T-56000, M-81703/3

Case 7:

Embryonal sarcoma, liver

T-56000, M-8991/3

Case 8:

Burkitt’s lymphoma, mesentery of small bowel

T-64210, M-9750/3

Case 9:

Metastatic colonic, adenocarcinoma, spleen

T-67000, M-81403

Case 10:

Metastatic colonic, adenocarcinoma, spleen

T-67000, M-81403

Escondido - Mucinous cystadenoma with mesenchymal stroma
Glendale (Glendale Pathology Associates) - Biliary cystadenoma with ovarian-like stroma
Loma Linda - Bile duct cyst - liver
Los Angeles (USC Residents) - Biliary cystadenoma
Modesto (Yosemite Pathology Medical Group) - Hepatobiliary cystadenoma
Orange (UCI Medical Center Residents) - Mucinous cystadenoma
Sacramento (UC Davis Medical Center) - Biliary cystadenoma
Tustin - Biliary cystadenoma, mucinous type
Arkansas (UAMS) - Biliary cystadenofibroma
Colorado (Unipath) - Benign bile duct cyst
Florida (Monroe Regional Medical Center) - Choledochal cyst
Florida (Winter Haven Hospital) - Cyst, liver (1); Mucinous cystadenoma (1)
Georgia, Decatur - Biliary cystadenoma
Indiana, Fort Wayne - Hepatobiliary cystadenoma, liver
Illinois (Marion Memorial Hospital) - Biliary, cystadenoma, with focal atypia
Illinois (Sarah Bush Lincoln Health Center) - Benign cystadenoma
Illinois, Skokie - Biliary cystadenoma
Kansas (Coffeyville Regional Medical Center) - Biliary mucinous cystadenoma, liver
Maryland (University of Maryland Medical System) - Bile duct cystadenoma
Maryland (National Naval Medical Center) - Biliary cystadenoma (12)
Massachusetts (Berkshire Medical Center) - Cystadenoma
Massachusetts (Brigham and Women's Hospital Residents/Fellow) - Hepatobiliary mucinous cystadenoma
Michigan (Spectrum Health) - Cystadenoma
Michigan (St. Mary's Mercy Hospital) - Biliary cystadenoma (2)
Nebraska (Good Samaritan Hospital) - Mucinous cystadenoma
New York (Nassau University Medical Center Resident Study Group) - Cystadenoma, mucinous, liver
Ohio (MCO Pathology) - Endometriosis
Pennsylvania (Allegheny General Hospital) - Mucinous cystadenoma
Pennsylvania (Memorial Medical Center) - Biliary cystadenoma
Pennsylvania, Sewickley - Biliary cystadenoma
Texas, Lubbock - Hepatobiliary mucinous cystadenoma
Texas (Scott & White Memorial Hospital) - Mucinous (biliary) cystadenoma
Utah (St. Mark's Hospital) - Biliary mucinous cystadenoma
Washington DC - Bile duct cystadenoma
Washington, Vancouver - Benign cyst – possible choledochal
Canada (CUSE, Site Fleurimont) - Solitary cyst, liver
Canada (University of Calgary, Foothills Hospital) - Biliary cystadenoma
China (Sir Run Run Shaw Hospital) - Biliary cystadenoma
Japan (Hamamatsu University School of Medicine) - Biliary cystadenoma
Japan (Saitama Medical School) - Hepatobiliary cystadenoma with mesenchymal stroma
Japan (Self Defense Hospital) - Hepatobiliary cystadenoma
Japan (Shimada City Hospital) - Biliary cystadenoma
Puerto Rico (University of Puerto Rico) - Biliary cystadenoma
Saudi Arabia (King Khalid University Hospital) - Traumatized unilocular simple cyst of the liver
Spain (Policlinico Vigosa) - Mucinous cystadenoma

Case 1 - Diagnosis:**Hepatobiliary cystadenoma, liver**

T-5600, M-84403

Case 1 - References:

- Owono P, Scoazec JY, Valette PJ, et al. Hepatobiliary Cystic Tumors. Clinical, Radiological and Histopathological Study of 7 Cases. *Gastroenterol Clin Biol*. 2001 Apr; 25(4):414-421.
- Catto JW, Madan M, Alexander DJ. Hepatobiliary Cystadenoma Presenting with Intermittent Inferior Vena Caval Obstruction. *J Hepatobiliary Pancreat Surg*. 1999; 6(3):324-326.
- Kim K, Choi J, Park Y, et al. Biliary Cystadenoma of The Liver. *J Hepatobiliary Pancreat Surg*. 1998; 5(3):348-352.
- Regev A, Reddy KR, Berho M, et al. Large Cystic Lesions of The Liver in Adults: A 15-year Experience in a Tertiary Center. *J Am Coll Surg*. 2001 Jul; 193(1):36-45.
- Beasley SW. Hepatobiliary Cystadenoma with Hyaline Stroma. *Pediatr Surg Int*. 1998 Jul; 13(5-6):462.

Escondido - Lymphoepithelial cyst
Glendale (Glendale Pathology Associates) - Lymphoepithelial cyst
Loma Linda - Lymphoepithelial cyst - pancreas
Los Angeles (USC Residents) - Lymphoepithelial cyst
Modesto (Yosemite Pathology Medical Group) - Epidermoid cyst of spleen
Orange (UCI Medical Center Residents) - Lymphoepithelial cyst
Sacramento (UC Davis Medical Center) - Lymphoepithelial cyst
Tustin - Lymphoepithelial cyst
Arkansas (UAMS) - Lymphoepithelial cyst, pancreas
Colorado (Unipath) - Benign squamous inclusion cyst
Florida (Monroe Regional Medical Center) - Lymphoepithelial cyst
Florida (Winter Haven Hospital) - Cyst, pancreas (1); Epithelial inclusion cyst (1)
Georgia, Decatur - Lymphoepithelial cyst
Indiana, Fort Wayne - Epidermal cyst, pancreas
Illinois (Marion Memorial Hospital) - Lymphoepithelial cyst
Illinois (Sarah Bush Lincoln Health Center) - Benign squamous lined cyst
Illinois, Skokie - Lymphoepithelial cyst
Kansas (Coffeyville Regional Medical Center) - Lymphoepithelial cyst, parapancreas
Maryland (University of Maryland Medical System) - Benign lymphoepithelial cyst of the pancreas
Maryland (National Naval Medical Center) - Benign lymphoepithelial cyst (13)
Massachusetts (Berkshire Medical Center) - Lymphoepithelial cyst
Massachusetts (Brigham and Women's Hospital Residents/Fellow) - Lymphoepithelial cyst
Michigan (Spectrum Health) - Lymphoepithelial cyst
Michigan (St. Mary's Mercy Hospital) - Lymphoepithelial cyst (2)
Nebraska (Good Samaritan Hospital) - Lymphoepithelial cyst
New York (Nassau University Medical Center Resident Study Group) - Lymphoepithelial cyst, pancreas
Ohio (MCO Pathology) - Lympho-epithelial cyst
Pennsylvania (Allegheny General Hospital) - Lymphoepithelial cyst
Pennsylvania (Memorial Medical Center) - Lymphoepithelial cyst
Pennsylvania, Sewickley - Epidermoid cyst
Texas, Lubbock - Lymphoepithelial cyst, benign
Texas (Scott & White Memorial Hospital) - Lymphoepithelial cyst
Utah (St. Mark's Hospital) - Pancreatic lymphoepithelial cyst
Washington DC - Lymphoepithelial cyst
Washington, Vancouver - Lymphoepithelial cyst
Canada (CUSE, Site Fleurimont) - Dermoid cyst, pancreas
Canada (University of Calgary, Foothills Hospital) - Lymphoepithelial cyst
China (Sir Run Run Shaw Hospital) - Lymphoepithelial cyst
Japan (Hamamatsu University School of Medicine) - Lymphoepithelial cyst
Japan (Saitama Medical School) - Lymphoepithelial cyst
Japan (Self Defense Hospital) - Lymphoepithelial cyst
Japan (Shimada City Hospital) - Lymphoepithelial cyst
Puerto Rico (University of Puerto Rico) - Lymphoepithelial cyst
Saudi Arabia (King Khalid University Hospital) - Benign lymphoepithelial cyst
Spain (Policlinico Vigosa) - Lymphoepithelial cyst vs. dermoid cyst

Case 2 - Diagnosis:**Lymphoepithelial Cyst ("Dermoid Cyst"), Pancreas**

T-5900, M-90840

CASE 2 - References:

- Iacono C, Cracco N, Zamboni G, et al. Lymphoepithelial Cyst of The Pancreas. Report of Two Cases and Review of The Literature. *Int J Pancreatol*. 1996 Feb;19(1):71-76.
- Warshaw AL, Compton CC, Lewandrowski K, et al. Cystic Tumors of The Pancreas. New Clinical, Radiologic, and Pathologic Observations in 67 Patients. *Ann Surg*. 1990 Oct; 212(4):432-443.
- Adsya NV, Hasteh F, Cheng JD, et al. Squamous-lined Cysts of the Pancreas: Lymphoepithelial Cysts, Dermoid Cysts (Teratomas), and Accessory-Splenic Epidermoid Cyst. *Semin Diagn, Pathol* (United States). 2000 February; 17(1):56-65.
- Tateyama H, Tada T, Murase T, et al. Lymphoepithelial Cyst and Epidermoid Cyst of The Accessory Spleen in The Pancreas. *Mod Pathol*. 1998 Dec; 11(12):1171-1177.
- Liu J, Shin HJ, Rubenchik I, et al. Cytologic Features of Lymphoepithelial Cyst of The Pancreas: Two Preoperatively Diagnosed Cases Based on Fine-needle Aspiration. *Diagn Cytopathol*. 1999 Nov; 21(5):346-350.

Escondido - Serous microcystic adenoma
Glendale (Glendale Pathology Associates) - Serous cystadenoma
Loma Linda - Microcystadenoma, pancreas
Los Angeles (USC Residents) - Microcystic cystadenoma
Modesto (Yosemite Pathology Medical Group) - Serous microcystic adenoma
Orange (UCI Medical Center Residents) - Microcystic adenoma
Sacramento (UC Davis Medical Center) - Microcystic cystadenoma
Tustin - Serous cystadenoma
Arkansas (UAMS) - Microcystic adenoma, pancreas
Colorado (Unipath) - Benign multiloculated cyst
Florida (Monroe Regional Medical Center) - Congenital cyst
Florida (Winter Haven Hospital) - Cystadenoma, pancreas (1); Microcystic adenoma (1)
Georgia, Decatur - Serous cystadenoma
Indiana, Fort Wayne - Benign serous microcystic adenoma (serous cystadenoma), pancreas
Illinois (Marion Memorial Hospital) - Serous microcystic adenoma
Illinois (Sarah Bush Lincoln Health Center) - Serous microcystic adenoma of pancreas
Illinois, Skokie - Serous microcystic adenoma
Kansas (Coffeyville Regional Medical Center) - Serous microcystic adenoma, pancreas
Maryland (University of Maryland Medical System) - Microcystic adenoma
Maryland (National Naval Medical Center) - Microcystic adenoma (13)
Massachusetts (Berkshire Medical Center) - Serous cystadenoma
Massachusetts (Brigham and Women's Hospital Residents/Fellow) - Serous microcystic adenoma
Michigan (Spectrum Health) - Serous microcystic adenoma
Michigan (St. Mary's Mercy Hospital) - Serous microcystic adenoma (1); Microcystic adenoma (1)
Nebraska (Good Samaritan Hospital) - Serous microcystic adenoma
New York (Nassau University Medical Center Resident Study Group) - Serous microcystic adenoma, pancreas
Ohio (MCO Pathology) - 1.) Microcystic cystadenoma, 2.) Type II diabetes mellitus? (hyalin islets)
Pennsylvania (Allegheny General Hospital) - Microcystic adenoma
Pennsylvania (Memorial Medical Center) - Serous cystadenoma
Pennsylvania, Sewickley - Serous microcystic adenoma
Texas, Lubbock - Serous microcystic adenoma
Texas (Scott & White Memorial Hospital) - Serous microcystic adenoma
Utah (St. Mark's Hospital) - Serous microcystic adenoma
Washington DC - Serous cystadenoma, microcystic
Washington, Vancouver - Serous microcystic adenoma
Canada (CUSE, Site Fleurimont) - Mucinous cystadenocarcinoma
Canada (University of Calgary, Foothills Hospital) - Serous cystadenoma of pancreas
China (Sir Run Run Shaw Hospital) - Serous microcystic adenoma
Japan (Hamamatsu University School of Medicine) - Serous microcystic adenoma
Japan (Saitama Medical School) - Serous microcystic adenoma
Japan (Self Defense Hospital) - Serous microcystic adenoma
Japan (Shimada City Hospital) - Serous microcystic adenoma
Puerto Rico (University of Puerto Rico) - Serous cystadenoma (microcystic)
Saudi Arabia (King Khalid University Hospital) - Microcystic serous cystadenoma of the pancreas
Spain (Policlinico Vigosa) - Microcystic cystadenoma

CASE 3 - Diagnosis:

Serous cystadenoma ("Microcystic adenoma"), pancreas

T-59000, M-84400

Case 3 - References:

- Omeroglu A, Paner GP, Ciesla MC, et al. Serous Microcystic Adenoma of the Pancreas. *Arch Pathol Lab Med.* 2001 Dec; 125(12):1613-1614.
 Abe H, Kubota K, Mori M, et al. Serous Cystadenoma of the Pancreas With Invasive Growth: Benign or Malignant? *Am J Gastroenterol.* 1998 Oct; 93(10):1963-1966.
 Taniuchi K, Nishimori I, Kohsaki T, et al. A Discrepant Finding between Magnetic Resonance Imaging and Other Imaging Modalities Suggests a Microcystic Serous Cystadenoma of the Pancreas. *Int J Pancreatol.* 2000 Dec; 28(3):239-242.
 Jung HK, Son HY, Lee HC, et al. Microcytic Adenoma Coexistent with Low-grade Malignant Islet Cell Tumor of The Pancreas. *J Clin Gastroenterol.* 2001 May-Jun; 32(5):441-443.
 Bagdasarian RW, Fuhrman GM. Cystic Tumors of The Pancreas: An Update. *Curr Surg.* 2000 Nov; 57(6):522-528.

Escondido - GIST (gastrointestinal stromal tumor) of uncertain malignant potential
Glendale (Glendale Pathology Associates) - Epithelioid GIST (gastrointestinal stromal tumor)
Loma Linda - Epithelioid gastrointestinal stromal tumor
Los Angeles (USC Residents) - Epithelioid gastrointestinal stromal tumor
Modesto (Yosemite Pathology Medical Group) - GIST (gastrointestinal stromal tumor)
Orange (UCI Medical Center Residents) - Gastrointestinal stromal tumor
Sacramento (UC Davis Medical Center) - GI (gastrointestinal) stromal tumor
Tustin - Gastrointestinal stromal tumor
Arkansas (UAMS) - Gastrointestinal stromal tumor
Colorado (Unipath) - GIST (gastrointestinal stromal tumor)
Florida (Monroe Regional Medical Center) - Gastrointestinal stromal tumor
Florida (Winter Haven Hospital) - Epithelioid GIST (gastrointestinal stromal tumor) (1); Gastric stromal neoplasm (1)
Georgia, Decatur - Gastrointestinal stromal tumor
Indiana, Fort Wayne - Epithelioid GIST (gastrointestinal stromal tumor), stomach
Illinois (Marion Memorial Hospital) - Epithelioid gastrointestinal stromal tumor of uncertain malignant potential
Illinois (Sarah Bush Lincoln Health Center) - Gastrointestinal stromal tumor - benign
Illinois, Skokie - Gastrointestinal stromal tumor
Kansas (Coffeyville Regional Medical Center) - Gastrointestinal stromal tumor, stomach
Maryland (University of Maryland Medical System) - GIST (gastrointestinal stromal tumor) potentially malignant
Maryland (National Naval Medical Center) - Epithelioid GI (gastrointestinal) stromal tumor – malignant (5); Epithelioid GI (gastrointestinal) stromal tumor – uncertain malignant potential (8)
Massachusetts (Berkshire Medical Center) - GIST (gastrointestinal stromal tumor) with epithelioid features
Massachusetts (Brigham and Women's Hospital Residents/Fellow) - Gastrointestinal stromal sarcoma, epithelioid type
Michigan (Spectrum Health) - GIST (gastrointestinal stromal tumor), epithelioid
Michigan (St. Mary's Mercy Hospital) - GIST (gastrointestinal stromal tumor) (2)
Nebraska (Good Samaritan Hospital) - GIST (gastrointestinal stromal tumor), uncertain malignant potential
New York (Nassau University Medical Center Resident Study Group) - GIST (gastrointestinal stromal tumor), borderline epithelioid type, stomach
Ohio (MCO Pathology) - GIST (gastrointestinal stromal tumor) – leiomyoblastoma differentiation
Pennsylvania (Allegheny General Hospital) - Epithelioid cyst
Pennsylvania (Memorial Medical Center) - GIST – gastrointestinal stromal tumor
Pennsylvania, Sewickley - Epithelioid leiomyoma
Texas, Lubbock - Epithelioid leiomyoma
Texas (Scott & White Memorial Hospital) - GIST (gastrointestinal stromal tumor)
Utah (St. Mark's Hospital) - GI (gastrointestinal) stromal tumor
Washington DC - Gastrointestinal stromal tumor
Washington, Vancouver - Gastrointestinal stromal tumor – epithelioid type
Canada (CUSE, Site Fleurimont) - GIST (gastrointestinal stromal tumor)
Canada (University of Calgary, Foothills Hospital) - Epithelioid GI (gastrointestinal) stromal tumor
China (Sir Run Run Shaw Hospital) - Malignant gastrointestinal stromal tumor (epithelioid type) showing differentiation towards smooth muscle
Japan (Hamamatsu University School of Medicine) - GIST (gastrointestinal stromal tumor), smooth muscle type
Japan (Saitama Medical School) - Gastrointestinal stromal tumor (malignant)
Japan (Self Defense Hospital) - Gastrointestinal stromal tumor
Japan (Shimada City Hospital) - Gastric stromal tumor
Puerto Rico (University of Puerto Rico) - Gastrointestinal stromal tumor
Saudi Arabia (King Khalid University Hospital) - Gastrointestinal autonomic neural tumor of stomach
Spain (Policlinico Vigosa) - GIST (gastrointestinal stromal tumor)

CASE 4 - Diagnosis:

Malignant epithelioid gastrointestinal stromal tumor (GIST), stomach

T-6300, M-8000/1

Case 4 - References:

- Gu M, Ghafari S, Nguyen PT, et al. Cytologic Diagnosis of Gastrointestinal Stromal Tumors of the Stomach by Endoscopic Ultrasound-guided Fine-needle Aspiration Biopsy: Cytomorphologic and Immunohistochemical Study of 12 Cases. *Diagn Cytopathol*. 2001 Dec; 25(6):343-350.
- Rader AE, Avery A, Wait CL, et al. Fine-needle Aspiration Biopsy Diagnosis of Gastrointestinal Stromal Tumors Using Morphology, Immunocytochemistry, and Mutational Analysis of C-KIT. *Cancer*. 2001 August; 93(4):269-275.
- Pidhorecky I, Cheney RT, Kraybill WG, et al. Gastrointestinal Stromal Tumors: Current Diagnosis, Biological Behavior, and Management. *Ann Surg Oncol*. 2000 Oct; 7(9):705-712.

Muro-Cacho CA, Cantor AB, Morgan M. Prognostic Factors in Malignant Gastrointestinal Stromal Tumors. *Ann Clin Lab Sci.* 2000 July; 30(3):239-247.

Miettinen M, Sarlomo-Rikala M, Lasota J. Gastrointestinal Stromal Tumors: Recent Advances in Understanding of Their Biology. *Hum Pathol.* 1999 Oct; 30(10):1213-1220.

Gibson PC, Cooper K. CD117 (KIT): A Diverse Protein with Selective Applications in Surgical Pathology. *Adv Anat Pathol.* 2002 January; 9(1):65-69.

Case No. 5, Accession No. 29176

March 2002

Escondido - Myxoid leiomyosarcoma
Glendale (Glendale Pathology Associates) - Myxoid leiomyosarcoma
Loma Linda - Myxomatous leiomyoma, jejunum
Los Angeles (USC Residents) - Myxoid leiomyosarcoma
Modesto (Yosemite Pathology Medical Group) - Myxoid leiomyosarcoma
Orange (UCI Medical Center Residents) - Myxoid leiomyoma
Sacramento (UC Davis Medical Center) - GI (gastrointestinal) stromal tumor
Tustin - Leiomyoma
Arkansas (UAMS) - Myxoid leiomyoma, jejunum
Colorado (Unipath) - Leiomyoma
Florida (Monroe Regional Medical Center) - Leiomyoma
Florida (Winter Haven Hospital) - Benign GIST (gastrointestinal stromal tumor), leiomyoma (1); Cellular leiomyoma (1)
Georgia, Decatur - Myxoid leiomyosarcoma
Indiana, Fort Wayne - Myxoid leiomyoma, jejunum
Illinois (Marion Memorial Hospital) - Gastrointestinal stromal tumor, low grade (leiomyosarcoma, low grade)
Illinois (Sarah Bush Lincoln Health Center) - Gastrointestinal stromal tumor (myxoid leiomyoma)
Illinois, Skokie - Myxoid leiomyoma
Kansas (Coffeyville Regional Medical Center) - Myxoid leiomyoma consistent with low grade malignant potential, jejunum
Maryland (University of Maryland Medical System) - Myxoid leiomyoma
Maryland (National Naval Medical Center) - Low grade myxoid neoplasm, NOS (13)
Massachusetts (Berkshire Medical Center) - Leiomyosarcoma
Massachusetts (Brigham and Women's Hospital Residents/Fellow) - Myxoid smooth muscle tumor, likely leiomyosarcoma
Michigan (Spectrum Health) - GIST (gastrointestinal stromal tumor), myxoid
Michigan (St. Mary's Mercy Hospital) - Myxoid leiomyoma (2)
Nebraska (Good Samaritan Hospital) - Myxoid smooth muscle neoplasm
New York (Nassau University Medical Center Resident Study Group) - Leiomyoma with myxoid changes, jejunum
Ohio (MCO Pathology) - Myxoid leiomyoma
Pennsylvania (Allegheny General Hospital) - Myxoid leiomyosarcoma
Pennsylvania (Memorial Medical Center) - Leiomyoma
Pennsylvania, Sewickley - Myxoid leiomyosarcoma
Texas, Lubbock - Leiomyoma
Texas (Scott & White Memorial Hospital) - GIST (gastrointestinal stromal tumor)
Utah (St. Mark's Hospital) - Leiomyoma - myxoid
Washington DC - Leiomyoma, myxoid
Washington, Vancouver - Mesenteric fibromatosis
Canada (CUSE, Site Fleurimont) - Inflammatory myofibroblastic tumor
Canada (University of Calgary, Foothills Hospital) - GIST (gastrointestinal stromal tumor)
China (Sir Run Run Shaw Hospital) - Leiomyoma with mucoid degeneration
Japan (Hamamatsu University School of Medicine) - Myxoid leiomyoma
Japan (Saitama Medical School) - Leiomyoma
Japan (Self Defense Hospital) - Myxoid leiomyoma
Japan (Shimada City Hospital) - Myxoid leiomyoma
Puerto Rico (University of Puerto Rico) - Degenerated leiomyoma with myxoid changes
Saudi Arabia (King Khalid University Hospital) - Small intestinal stromal tumor with myogenic differentiation (probably benign)
Spain (Policlinico Vigosa) - Leiomyoma

Case 5 - Diagnosis:

Myxoid smooth muscle tumor, likely leiomyosarcoma, jejunum
T-65100, M-8000/1

Case 5 - References:

Hara T, Wada I, Kajihara S, et al. Case Report: A Long-term Survivor of Jejunal Leiomyosarcoma with Liver Metastasis: Effective Transcatheter Arterial Embolization For Hepatic Metastatic Foci. *J Gastroenterol Hepatol.* 1998 Jun; 13(6):620-623.
Gill SS, Heuman DM, Mihas AA. Small Intestinal Neoplasms. *J Clin Gastroenterol.* 2001 Oct; 33(4):267-282.
Rubin BP, Fletcher CD. Myxoid Leiomyosarcoma of Soft Tissue, An Underrecognized Variant. *Am J Surg Pathol.* 2000 July; 24(7):927-936.

Case No. 6, Accession No. 29277

March 2002

Escondido - Hepatocellular carcinoma
Glendale (Glendale Pathology Associates) - Hepatocellular carcinoma
Loma Linda - Hepatocellular carcinoma
Los Angeles (USC Residents) - Hepatocellular carcinoma
Modesto (Yosemite Pathology Medical Group) - Well-differentiated hepatocellular carcinoma
Orange (UCI Medical Center Residents) - Hepatocellular carcinoma
Sacramento (UC Davis Medical Center) - Trabecular hepatocellular carcinoma
Tustin - Hepatocellular carcinoma, trabecular type
Arkansas (UAMS) - Hepatocellular carcinoma
Colorado (Unipath) - Hepatocellular carcinoma
Florida (Monroe Regional Medical Center) - Hepatocellular carcinoma
Florida (Winter Haven Hospital) - Well-differentiated hepatoma (1); Hepatocellular carcinoma (1)
Georgia, Decatur - Hepatocellular carcinoma, trabecular pattern and ? a component of cholangiocarcinoma
Indiana, Fort Wayne - Hepatoma, liver (well-differentiated) arising in high grade dysplastic macro regenerative nodule
Illinois (Marion Memorial Hospital) - Hepatocellular carcinoma arising in micronodular cirrhosis
Illinois (Sarah Bush Lincoln Health Center) - Hepatocellular carcinoma arising within hepatic cirrhosis ? Hep. B/C infection
Illinois, Skokie - Hepatocellular carcinoma
Kansas (Coffeyville Regional Medical Center) - Hepatocellular carcinoma, trabecular type, liver
Maryland (University of Maryland Medical System) - Hepatocellular carcinoma
Maryland (National Naval Medical Center) - Hepatocellular carcinoma (13)
Massachusetts (Berkshire Medical Center) - Hepatocellular carcinoma
Massachusetts (Bringham and Women's Hospital Residents/Fellow) - Hepatocellular carcinoma, moderately differentiated, arising in a background of cirrhosis
Michigan (Spectrum Health) - Hepatocellular carcinoma, well differentiated
Michigan (St. Mary's Mercy Hospital) - Trabecular hepatoma (1); Hepatocellular carcinoma (1)
Nebraska (Good Samaritan Hospital) - Hepatocellular carcinoma, trabecular type
New York (Nassau University Medical Center Resident Study Group) - Hepatocytic carcinoma, liver
Ohio (MCO Pathology) - 1.) Well-differentiated hepatocellular carcinoma, 2.) Cirrhosis
Pennsylvania (Allegheny General Hospital) - Hepatocellular carcinoma
Pennsylvania (Memorial Medical Center) - Hepatocellular carcinoma
Pennsylvania, Sewickley - Hepatoma
Texas, Lubbock - Hepatocellular carcinoma
Texas (Scott & White Memorial Hospital) - Hepatocellular carcinoma
Utah (St. Mark's Hospital) - Hepatocellular carcinoma
Washington DC - Hepatocellular carcinoma
Washington, Vancouver - Hepatocellular carcinoma – trabecular and acinar patterns
Canada (CUSE, Site Fleurimont) - Hepatocellular carcinoma
Canada (University of Calgary, Foothills Hospital) - Hepatocellular carcinoma
China (Sir Run Run Shaw Hospital) - Hepatocellular carcinoma
Japan (Hamamatsu University School of Medicine) - Moderately differentiated hepatocellular carcinoma with LC (liver cirrhosis)
Japan (Saitama Medical School) - Hepatocellular carcinoma
Japan (Self Defense Hospital) - Hepatocellular carcinoma
Japan (Shimada City Hospital) - Combined hepatocellular cholangiosarcoma
Puerto Rico (University of Puerto Rico) - Hepatocellular carcinoma
Saudi Arabia (King Khalid University Hospital) - Hepatocellular carcinoma
Spain (Policlinico Vigosa) - Carcinoid tumor vs. neuroendocrine liver cell carcinoma

Case 6 - Diagnosis:

Hepatocellular carcinoma, liver

T-56000, M-81703/3

Case 6 - References:

- Lauwers GY, Terris B, Balis UJ, et al. Prognostic Histologic Indicators of Curatively Resected Hepatocellular Carcinomas: A Multi-Institutional Analysis of 425 Patients with Definition of a Histologic Prognostic Index. *Am J Surg Pathol*. 2002 Jan; 26(1):25-34.
- Szekely E. Hepatocellular Carcinoma with Lymphoid Stroma: 'Lymphoepithelioma-like Carcinoma'? *Histopathology*. 2001 Nov; 39(5):540.
- Koo SH, Ihm CH, Kwon KC, et al. Genetic Alterations in Hepatocellular Carcinoma and Intrahepatic Cholangiocarcinoma. *Cancer Genet Cytogenet*. 2001 Oct 1; 130(1):22-28.
- Monto A, Wright TL. The Epidemiology and Prevention of Hepatocellular Carcinoma. *Semin Oncol*. 2001 Oct; 28(5):441-449.

Case No. 7, Accession No. 29439

March 2002

Escondido - Embryonal rhabdomyosarcoma
Glendale (Glendale Pathology Associates) - Embryonal sarcoma
Loma Linda - Rhabdomyosarcoma
Los Angeles (USC Residents) - Malignant mesenchymoma
Modesto (Yosemite Pathology Medical Group) - Embryonal sarcoma
Orange (UCI Medical Center Residents) - Rhabdomyosarcoma
Sacramento (UC Davis Medical Center) - Hepatoblastoma, mixed epithelial and mesenchymal type
Tustin - Rhabdomyosarcoma
Arkansas (UAMS) - Hepatoblastoma
Colorado (Unipath) - Hepatoblastoma
Florida (Monroe Regional Medical Center) - Rhabdomyosarcoma
Florida (Winter Haven Hospital) - Leiomyosarcoma, liver (1); Undifferentiated embryonal sarcoma (1)
Georgia, Decatur - Embryonal sarcoma, with rhabdomyoblastic differentiation
Indiana, Fort Wayne - Mixed epithelial/mesenchymal hepatoblastoma, liver
Illinois (Marion Memorial Hospital) - Embryonal sarcoma (undifferentiated sarcoma)
Illinois (Sarah Bush Lincoln Health Center) - Embryonal sarcoma
Illinois, Skokie - Embryonal sarcoma (malignant mesenchymoma)
Kansas (Coffeyville Regional Medical Center) - Embryonal sarcoma, liver
Maryland (University of Maryland Medical System) - Hepatoblastoma, mixed
Maryland (National Naval Medical Center) - Embryonal sarcoma (6); Embryonal rhabdomyosarcoma (7)
Massachusetts (Berkshire Medical Center) - Malignant mesenchymoma
Massachusetts (Brigham and Women's Hospital Residents/Fellow) - Embryonal sarcoma
Michigan (Spectrum Health) - Embryonal rhabdomyosarcoma
Michigan (St. Mary's Mercy Hospital) - Embryonal sarcoma (1); Undifferentiated (embryonal) sarcoma (1)
Nebraska (Good Samaritan Hospital) - Embryonal sarcoma
New York (Nassau University Medical Center Resident Study Group) - Hepatoblastoma, mixed epithelial and mesenchymal
Ohio (MCO Pathology) - Embryonal rhabdomyosarcoma, pleomorphic subtype
Pennsylvania (Allegheny General Hospital) - Embryonal sarcoma
Pennsylvania (Memorial Medical Center) - Sarcomatoid (spindle cell sarcoma)/hepatoblastoma
Pennsylvania, Sewickley - Embryonal rhabdomyosarcoma
Texas, Lubbock - Hepatoblastoma
Texas (Scott & White Memorial Hospital) - Embryonal sarcoma
Utah (St. Mark's Hospital) - Embryonal sarcoma
Washington DC - Sarcoma, undifferentiated
Washington, Vancouver - Undifferentiated (embryonal) sarcoma
Canada (CUSE, Site Fleurimont) - Hepatocarcinoma, sarcomatoid type
Canada (University of Calgary, Foothills Hospital) - Undifferentiated (embryonal) sarcoma
China (Sir Run Run Shaw Hospital) - Undifferentiated sarcoma /embryonal sarcoma
Japan (Hamamatsu University School of Medicine) - Embryonal sarcoma
Japan (Saitama Medical School) - Embryonal rhabdomyosarcoma
Japan (Self Defense Hospital) - Embryonal sarcoma
Japan (Shimada City Hospital) - Embryonal sarcoma
Puerto Rico (University of Puerto Rico) - Embryonal sarcoma
Saudi Arabia (King Khalid University Hospital) - Undifferentiated embryonal sarcoma
Spain (Policlinico Vigosa) - Undifferentiated sarcoma

CASE 7 - Diagnosis:

Embryonal sarcoma, liver
T-56000, M-8991/3

Case 7 - References:

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- Cho HS, Park YN, Lyu CJ, et al. Embryonal Sarcoma of the Liver: Multiple Recurrences and Histologic Dedifferentiation. *Med Pediatr Oncol*. 1999 May; 32(5):386-388.
- Bisogno G, Pilz T, Perilongo G, et al. Undifferentiated Sarcoma of the Liver in Childhood: A Curable Disease. *Cancer*. 2002 Jan 1; 94(1):252-7.
- Bove KE, Blough RI, Soukup S. Third Report of T(19q)(13.4) in Mesenchymal Hamartoma of Liver with Comments on Link to Embryonal Sarcoma. *Pediatr Dev Pathol*. 1998 Sep-Oct; 1(5):438-442.
- Sola-Perez J, Perez-Guillermo M, Gimenez-Bascunana A, et al. Cytopathology of Undifferentiated (Embryonal) Sarcoma of The Liver. *Diagn Cytopathol*. 1995 Jul; 13(1):44-51.
- Johnson JA, White JG, Thompson AR. Undifferentiated (Embryonal) Sarcoma of the Liver in Adults. *Am Surg*. 1995 Apr; 61(4):285-287.

Case No. 8, Accession No. 29433

March 2002

Escondido - Lymphoma

Glendale (Glendale Pathology Associates) - High-grade lymphoma, Burkitt's-like

Loma Linda - Malignant lymphoma (Burkitt's)

Los Angeles (USC Residents) - Burkitt's lymphoma

Modesto (Yosemite Pathology Medical Group) - Burkitt's lymphoma

Orange (UCI Medical Center Residents) - Burkitt's lymphoma

Sacramento (UC Davis Medical Center) - Lymphoma

Tustin - Burkitt's lymphoma

Arkansas (UAMS) - Diffuse large cell lymphoma

Colorado (Unipath) - Ewing's sarcoma

Florida (Monroe Regional Medical Center) - Burkitt's lymphoma

Florida (Winter Haven Hospital) - Burkitt's lymphoma (1); Rhabdomyosarcoma (1)

Georgia, Decatur - Hematopoietic neoplasm, Burkitt's lymphoma vs. granulocytic sarcoma

Indiana, Fort Wayne - Malignant lymphoma, B-cell Burkitt's-like

Illinois (Marion Memorial Hospital) - Malignant lymphoma, diffuse, large cell type

Illinois (Sarah Bush Lincoln Health Center) - Burkitt's lymphoma vs. lymphoblastic lymphoma

Illinois, Skokie - Diffuse large B-cell lymphoma

Kansas (Coffeyville Regional Medical Center) - Malignant lymphoma, small bowel mesentery

Maryland (University of Maryland Medical System) - Burkitt's lymphoma

Maryland (National Naval Medical Center) - Malignant lymphoma, high grade – diffuse large cell B-cell vs. Burkitt's/Burkitt's-like (13)

Massachusetts (Berkshire Medical Center) - ALL (acute lymphocytic leukemia)/large cell lymphoma

Massachusetts (Brigham and Women's Hospital Residents/Fellow) - High grade lymphoma/leukemia, favor lymphoblastic

Michigan (Spectrum Health) - Malignant lymphoma, Burkitt's

Michigan (St. Mary's Mercy Hospital) - Lymphoma (1); Lymphoblastic lymphoma (1)

Nebraska (Good Samaritan Hospital) - Extraskelatal Ewing's sarcoma

New York (Nassau University Medical Center Resident Study Group) - Non-Hodgkin's malignant lymphoma, GI (gastrointestinal)

Ohio (MCO Pathology) - Small non-cleaved cell, lymphoma, non-Burkitt's, (high-grade)

Pennsylvania (Allegheny General Hospital) - Lymphoma, Burkitt's

Pennsylvania (Memorial Medical Center) - Burkitt's lymphoma

Pennsylvania, Sewickley - Large cell lymphoid neoplasm

Texas, Lubbock - Burkitt's lymphoma

Texas (Scott & White Memorial Hospital) - Burkitt's lymphoma

Utah (St. Mark's Hospital) - Lymphoma – Burkitt's-like small non-cleaved

Washington DC - Burkitt's lymphoma

Washington, Vancouver - Intra-abdominal desmoplastic round cell tumor

Canada (CUSE, Site Fleurimont) - Diffuse large cell lymphoma

Canada (University of Calgary, Foothills Hospital) - Malignant lymphoma, Burkitt's type

China (Sir Run Run Shaw Hospital) - Non-Hodgkin's malignant lymphoma/Burkitt's-like lymphoma

Japan (Hamamatsu University School of Medicine) - Malignant lymphoma, lymphoblastic

Japan (Saitama Medical School) - Burkitt's lymphoma

Japan (Self Defense Hospital) - Granulocytic sarcoma

Japan (Shimada City Hospital) - PPNET

Puerto Rico (University of Puerto Rico) - Burkitt's lymphoma

Saudi Arabia (King Khalid University Hospital) - Burkitt's lymphoma
Spain (Policlinico Vigosa) - Burkitt's lymphoma vs. lymphoblastic lymphoma

Case 8 - Diagnosis:

Burkitt's lymphoma, mesentery of small bowel

T-64210, M-9750/3

Case 8 - References:

Shiramizu B, Barriga F, Neequaye J, et al. Patterns of Chromosomal Breakpoint Locations in Burkitt's Lymphoma: Relevance to Geography and Epstein-Barr Virus Association. *Blood*. 1991 Apr 1; 77(7):1516-1526.
Horvath K, Gimesi A, Hill ID, et al. Burkitt-type Intestinal Lymphoma in a Child with Celiac Disease. *J Pediatr Gastroenterol Nutr*. 1995 Oct; 21(3):308-312.
van Hasselt EJ, Broadhead R. Burkitt's Lymphoma: A Case File Study of 160 Patients Treated in Queen Elizabeth Central Hospital from 1988 to 1992. *Pediatr Hematol Oncol*. 1995 May-Jun; 12(3):277-281.
Brazier RM, Arber DA, Slovak ML, et al. The Burkitt-like Lymphomas: A Southwest Oncology Group Study Delineating Phenotypic, Genotypic, and Clinical Features. *Blood*. 2001 Jun 15; 97(12):3713-3720.

Case No. 9, Accession No. 28718

March 2002

Escondido - Metastatic colorectal adenocarcinoma
Glendale (Glendale Pathology Associates) - Metastatic adenocarcinoma
Loma Linda - Spleen, metastatic adenocarcinoma
Los Angeles (USC Residents) - Adenocarcinoma
Modesto (Yosemite Pathology Medical Group) - Colonic adenocarcinoma
Orange (UCI Medical Center Residents) - Metastatic adenocarcinoma
Sacramento (UC Davis Medical Center) - Adenocarcinoma, splenic implants
Tustin - Metastatic moderately differentiated adenocarcinoma
Arkansas (UAMS) - Metastatic colonic adenocarcinoma, spleen
Colorado (Unipath) - Adenocarcinoma
Florida (Monroe Regional Medical Center) - Metastatic adenocarcinoma
Florida (Winter Haven Hospital) - Metastatic adenocarcinoma (2)
Georgia, Decatur - Metastatic rectal adenocarcinoma
Indiana, Fort Wayne - Colon adenocarcinoma consistent with IBD (infectious bowel disease) with metastasis to spleen
Illinois (Marion Memorial Hospital) - Metastatic adenocarcinoma of colon origin
Illinois (Sarah Bush Lincoln Health Center) - Metastatic adenocarcinoma – colon primary
Illinois, Skokie - T-cell lymphoma
Kansas (Coffeyville Regional Medical Center) - Metastatic adenocarcinoma, spleen
Maryland (University of Maryland Medical System) - Metastatic adenocarcinoma favor colonic primary
Maryland (National Naval Medical Center) - Metastatic adenocarcinoma (7); Metastatic adenocarcinoma and amyloidosis (6)
Massachusetts (Berkshire Medical Center) - Metastatic adenocarcinoma, favor colon
Massachusetts (Brigham and Women's Hospital Residents/Fellow) - Metastatic colonic adenocarcinoma, spleen
Michigan (Spectrum Health) - Adenocarcinoma
Michigan (St. Mary's Mercy Hospital) - Metastatic adenocarcinoma (1); Adenocarcinoma metastatic from colon (1)
Nebraska (Good Samaritan Hospital) - Metastatic adenocarcinoma
New York (Nassau University Medical Center Resident Study Group) - Adenocarcinoma, metastatic, spleen
Ohio (MCO Pathology) - Metastatic adenocarcinoma
Pennsylvania (Allegheny General Hospital) - Metastatic carcinoma
Pennsylvania (Memorial Medical Center) - Metastatic colonic adenocarcinoma
Pennsylvania, Sewickley - Metastatic colon carcinoma in spleen
Texas, Lubbock - Metastatic adenocarcinoma
Texas (Scott & White Memorial Hospital) - Metastatic poorly differentiated adenocarcinoma
Utah (St. Mark's Hospital) - Metastatic adenocarcinoma
Washington DC - Metastatic adenocarcinoma (consistent with colorectal)
Washington, Vancouver - Metastatic adenocarcinoma, consistent with colon primary
Canada (CUSE, Site Fleurimont) - Adenocarcinoma, metastatic
Canada (University of Calgary, Foothills Hospital) - Metastatic colonic adenocarcinoma
China (Sir Run Run Shaw Hospital) - Metastatic adenocarcinoma
Japan (Hamamatsu University School of Medicine) - Adenocarcinoma, moderately differentiated
Japan (Saitama Medical School) - Metastatic adenocarcinoma of the colon
Japan (Self Defense Hospital) - Moderately differentiated adenocarcinoma

Japan (Shimada City Hospital) - Metastatic adenocarcinoma
Puerto Rico (University of Puerto Rico) - Metastatic adenocarcinoma
Saudi Arabia (King Khalid University Hospital) - Metastatic adenocarcinoma in the spleen
Spain (Policlinico Vigosa) - Metastatic adenocarcinoma

Case 9 - Diagnosis:

Metastatic colonic, adenocarcinoma, spleen
T-67000, M-81403

Case 9 - References:

Lee SS, Morgenstern L, Phillips EH, et al. Splenectomy for Splenic Metastases: A Changing Clinical Spectrum. *Am Surg*. 2000 Sep; 66(9):837-840.
Okuyama T, Oya M, Ishikawa H. Isolated Splenic Metastasis of Sigmoid Colon Cancer: A Case Report. *Jpn J Clin Oncol*. 2001 Jul; 31(7):341-345.
Agha-Mohammadi S, Calne RY. Solitary Splenic Metastasis: Case Report and Review of the Literature. *Am J Clin Oncol*. 2001 Jun; 24(3):306-310.
Opocher E, Santambrogio R, Bianchi P, et al. Isolated Splenic Metastasis from Gastric Carcinoma: Value of CEA and CA 19-9 in Early Diagnosis: Report of Two Cases. *Am J Clin Oncol*. 2000 Dec; 23(6):579-580.
Weathers BK, Modesto VL, Gordon D. Isolated Splenic Metastasis from Colorectal Carcinoma: Report of a Case and Review of the Literature. *Dis Colon Rectum*. 1999 Oct; 42(10):1345-1348.
Mainprize KS, Berry AR. Solitary Splenic Metastasis from Colorectal Carcinoma. *Br J Surg*. 1997 Jan; 84(1):70.

Case No. 10, Accession No. 29256

March 2002

Escondido - Malignant fibrous histiocytoma
Glendale (Glendale Pathology Associates) - High grade, pleomorphic sarcoma
Loma Linda - Fully malignant tumor – possibly melanoma
Los Angeles (USC Residents) - Pleomorphic sarcoma, MFH (malignant fibrous histiocytoma) phenotype
Modesto (Yosemite Pathology Medical Group) - MFH (malignant fibrous histiocytoma)
Orange (UCI Medical Center Residents) - Malignant fibrous histiocytoma
Sacramento (UC Davis Medical Center) - Poorly differentiated malignancy
Tustin - Pleomorphic liposarcoma
Arkansas (UAMS) - Giant cell carcinoma, colon
Colorado (Unipath) - High grade sarcoma
Florida (Monroe Regional Medical Center) - Sarcoma, high grade probable MFH (malignant fibrous histiocytoma)
Florida (Winter Haven Hospital) - Poorly differentiated GIST (gastrointestinal stromal tumor), rule out melanoma (1); Undifferentiated carcinoma (1)
Georgia, Decatur - Malignant gastrointestinal stromal tumor
Indiana, Fort Wayne - Malignant lymphoma with ALCL (anaplastic large cell lymphoma) features primary colon (? follicular dendritic cell sarcoma)
Illinois (Marion Memorial Hospital) - Gastrointestinal stromal sarcoma, high grade
Illinois (Sarah Bush Lincoln Health Center) - High grade sarcoma
Illinois, Skokie - Anaplastic large cell lymphoma
Kansas (Coffeyville Regional Medical Center) - Malignant poorly differentiated tumor – MFH (malignant fibrous histiocytoma) vs. melanoma
Maryland (University of Maryland Medical System) - Favor metastatic melanoma
Maryland (National Naval Medical Center) - Poorly differentiated neoplasm, favor metastatic melanoma (13)
Massachusetts (Berkshire Medical Center) - Melanoma
Massachusetts (Brigham and Women's Hospital Residents/Fellow) - Pleomorphic epithelioid malignant neoplasm, differential includes metastatic melanoma and unclassified high grade pleomorphic sarcoma
Michigan (Spectrum Health) - Malignant melanoma
Michigan (St. Mary's Mercy Hospital) - GIST (gastrointestinal stromal tumor), high grade (1); MFH (malignant fibrous histiocytoma) (1)
Nebraska (Good Samaritan Hospital) - GIST (gastrointestinal stromal tumor), malignant
New York (Nassau University Medical Center Resident Study Group) - Melanoma, colon
Ohio (MCO Pathology) - High grade sarcoma, NOS
Pennsylvania (Allegheny General Hospital) - Melanoma vs. high grade carcinoma
Pennsylvania (Memorial Medical Center) - Poorly differentiated carcinoma
Pennsylvania, Sewickley - Malignant melanoma
Texas, Lubbock - Malignant neoplasm, probable melanoma
Texas (Scott & White Memorial Hospital) - High grade sarcoma

Utah (St. Mark's Hospital) - High grade sarcoma, NOS
Washington DC - Pleomorphic giant cell tumor
Washington, Vancouver - Malignant fibrous histiocytoma
Canada (CUSE, Site Fleurimont) - Anaplastic sarcomatoid carcinoma
Canada (University of Calgary, Foothills Hospital) - GIST (gastrointestinal stromal tumor)
China (Sir Run Run Shaw Hospital) - Malignant fibrous histiocytoma/fibrous sarcoma
Japan (Hamamatsu University School of Medicine) - Malignant melanoma
Japan (Saitama Medical School) - Undifferentiated carcinoma
Japan (Self Defense Hospital) - Malignant melanoma
Japan (Shimada City Hospital) - Pleomorphic liposarcoma
Puerto Rico (University of Puerto Rico) - Pleomorphic malignant tumor/MFH (malignant fibrous histiocytoma)
Saudi Arabia (King Khalid University Hospital) - Epithelioid malignant melanoma
Spain (Policlinico Vigosa) - Melanoma

Case 10 - Diagnosis:

Pleomorphic sarcoma NOS, colon

T-67000, M-88023

Case 10 - References:

Hollowood K, Fletcher CD. Malignant Fibrous Histiocytoma: Morphologic Pattern or Pathologic Entity? *Semin Diagn Pathol.* 1995 Aug; 12(3):210-220.
 Mertens F, Fletcher CD, Dal Cin P, et al. Cytogenetic Analysis of 46 Pleomorphic Soft Tissue Sarcomas and Correlation with Morphologic and Clinical Features: A Report of the CHAMP Study Group. *Chromosomes and Morphology. Genes Chromosomes Cancer.* 1998 May; 22(1):16-25.