



CALIFORNIA
TUMOR TISSUE REGISTRY

GASTROINTESTINAL TRACT PATHOLOGY

Minutes – Subscription A

November 2003



SUGGESTED READING (General Topics from Recent Literature):

Pathologic Review of Negative Sentinel Lymph Nodes in Melanoma Patients with Regional Recurrence. Li L-XL, Scolyer RA, et al. *Am J Surg Pathol* 2003; 27(9):1197-1202.

Pitfalls in the Diagnosis of Malignant Melanoma: Findings of a Risk Management Panel Study. Troxel DB. *Am J Surg Pathol* 2003; 27(9):1278-1283.

Pap Test Discrepancies and Follow-Up Histology: Who's Right and Does It Help to Know? Stelow EB, Skeate, R, et al. *Diagn Cytopathol* 2003; 29(2):111-115.

CD10 is Helpful in Detecting Occult or Inconspicuous Endometrial Stromal Cells in Cases of Presumptive Endometriosis. Groisman GM, Meir A. *Arch Pathol Lab Med* 2003; 127(August):1003-1006.

Errors Today and Errors Tomorrow. Berwick DM. *N Engl J Med* 2003, 348(June 19):2570-2572.

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FILE DIAGNOSES

(Diagnoses may also be sent through our website at [www.cttr](http://www.cttr.org). . . “subscriptions” . . . “submit answers”)

CTTR Subscription A

November 2003

Case 1:

**Brunner’s gland hamartoma/adenoma
T-64300, M-75500**

Case 2:

**Inflammatory fibroid polyp, stomach
T-63000, M-76830**

Case 3:

**Intra-abdominal (mesenteric) fibromatosis
T-50500, M-76100**

Case 4:

**Leiomyosarcoma, colon
T-67000, M-88903**

Case 5:

**Gastrointestinal stromal tumor, small bowel
T-64000, M-88903**

Case 6:

**Solid pseudopapillary tumor, pancreas
T-59000, M-80001**

Case 7:

**Ganglioneuroma, colon
T-67000, M-94900**

Case 8:

**Neuroendocrine carcinoma, stomach
T-63000, M-82401**

Case 9:

**Hepatocellular carcinoma, liver
T-56000, M-81703**

Case 10:

**Mucinous adenocarcinoma, stomach
T-63000, M-84803**

Alameda (Alameda County Medical Center) - Brunner's gland hamartoma
Bakersfield - Brunner's gland hamartoma
Baldwin Park (Kaiser Permanente) - Brunner's gland hyperplasia (3)
Hayward/Fremont - Brunner's gland hamartoma
Laguna Beach (South Coast Medical Center) - Brunner's gland hamartoma
Irvine (UC Davis Medical Center Residents) - Brunner's gland adenoma
Long Beach (Lakewood Regional Medical Center) - Brunner's gland adenoma (8)
Loma Linda (Loma Linda University Residents) - Brunner's gland hamartoma
Mountain View (El Camino Pathology Group) - Brunner's gland adenoma
Oakland (Kaiser Permanente) - Brunner's gland hyperplasia (4)
Orange (Orange County Pathology Medical Group) - Brunner's gland hamartoma
Santa Rosa (Santa Rosa Memorial Hospital) - Brunner's gland adenoma/Brunner gland hyperplasia (1); Brunner's gland adenoma (1); Brunner's gland hyperplasia/hamartoma (1)
Santa Barbara (Santa Barbara Cottage Hospital) - Brunner's gland adenoma
San Diego (Naval Medical Center) - Brunner's gland hyperplasia
Ventura - Brunner's gland adenoma
Alaska (Alaska Native Medical Center) - Brunner's gland hamartoma (hyperplasia/adenoma)
Arizona (Maryvale Medical Center) - Brunner's gland adenoma/hamartoma
Florida (Baptist Hospital) - Brunner's gland adenoma
Florida (Munroe Regional Medical Center) - Brunner's gland hyperplasia
Florida (Tallahassee) - Brunner's gland adenoma
Florida (Winter Haven Hospital) - Brunner's gland adenoma
Illinois (Heartland Regional Medical) - Brunner's gland nodule (nodular hyperplasia of Brunner's glands)
Illinois (Northwestern Memorial Hospital) - Brunner's gland hamartoma
Indiana (Howard Community Hospital) - Brunner's gland adenoma
Louisiana (Louisiana State University Medical Center) - Brunner's gland adenoma
Maryland (National Naval Medical Center) - Brunner's gland hyperplasia/hamartoma
Massachusetts (Berkshire Medical Center) - Brunner's gland adenoma
Massachusetts (New England Medical Center Residents) - Duodenal adenoma/hamartoma
Michigan (Oakwood Hospital) - Brunner gland hamartoma
Michigan (St. Joseph Mercy Hospital) - Brunner's gland hamartoma
Minnesota (Fairview Southdale Hospital) - Brunner's gland adenoma
Nebraska (Creighton University School of Medicine Residents) - Brunneroma
New Jersey (Long Island Jewish Medical Center) - Brunner's gland adenoma, focally inflamed
New Mexico (University of New Mexico) - Brunner's gland hamartoma
New York (Long Island Jewish Medical Center) - Brunner's gland adenoma
New York (New York Presbyterian Hospital Residents) - Brunner's gland hamartoma
New York (Stony Brook University Hospital Residents) - Brunner's gland adenoma
Ohio (Medical College of Ohio Residents) - Hamartomatous polyp of the Peutz-Jeghers type
Pennsylvania (Allegheny General Hospital) - Brunner's gland adenoma
Pennsylvania (Centre Community Hospital) - Brunner's gland hamartoma, duodenum
Pennsylvania (Drexel University School of Medicine) - Brunner's gland hyperplasia
Pennsylvania (Lehigh Valley Hospital) - Brunner's gland adenoma (1); Brunner's gland hyperplasia (1); Brunner's gland polyp (1)
Pennsylvania (UPMC Health System) - Adenoma of Brunner's gland
Pennsylvania (York Laboratory Associates) - Brunner's gland hamartoma, inflammation (3); Brunner's gland hamartoma (5)
Puerto Rico (University of Puerto Rico) - Brunneroma
Rhode Island (RI Hospital Residents) - Brunner's gland hamartoma
Texas (Propath Associates) - Brunner's gland hyperplasia (2)
Texas (Scott & White Memorial Hospital) - Brunner's gland adenoma
Texas (Universal City) - Brunner's gland nodule
West Virginia (Greenbrier Valley Medical Center) - Brunner's gland hyperplasia

Wisconsin (Meriter Hospital) - Brunner gland nodule
Australia (North Queensland Pathology) - Brunner's gland hamartoma
Australia (Royal Prince Alfred Hospital) - Brunner's gland nodule
Canada (Foothills Medical Center) - Brunner's gland hyperplasia
Hong Kong (Hong Kong Baptist Hospital) - Brunner's gland adenoma/hyperplasia
Italy (Naples) - Brunner's gland hyperplasia
Jamaica (University Hospital of the West Indies) - Brunner's gland adenoma
Qatar (Hamad Medical Corporation) - Brunner's gland adenoma

Case 1 - Diagnosis:

Brunner's gland hamartoma/adenoma, duodenum
T-64300, M-75500

Case 1 – References:

Pricolo VE, Lee KC, Van Zuiden PEA, Vezedis MP, et al. Brunner's Gland Adenoma. *South Med J* 1987; 80(12):1572-1574.
 Walk L. Nodular Hyperplasia of Duodenal Brunner's Glands—Does It Exist? *Endoscopy* 1982; 14(5):162-165.
 Strutynsky N, Posniak R, Mori K. Obstructing Hamartoma of Brunner's Glands of Duodenum. *Diag Dis Sci* 1982; 27(3):279-282.

Case No. 2, Accession No. 29763

November 2003

Alameda (Alameda County Medical Center) - Inflammatory fibroid polyp
Bakersfield - Inflammatory fibroid polyp
Baldwin Park (Kaiser Permanente) - Inflammatory fibroid polyp (3)
Hayward/Fremont - Inflammatory fibroid polyp
Laguna Beach (South Coast Medical Center) - Inflammatory fibroid polyp
Irvine (UC Davis Medical Center Residents) - Inflammatory fibroid polyp
Long Beach (Lakewood Regional Medical Center) - Inflammatory fibroid polyp (8)
Loma Linda (Loma Linda University Residents) - Inflammatory fibroid polyp (eosinophilic granulomas)
Mountain View (El Camino Pathology Group) - Inflammatory fibroid polyp
Oakland (Kaiser Permanente) - Inflammatory fibroid polyp (4)
Orange (Orange County Pathology Medical Group) - Inflammatory fibrous polyp
Santa Rosa (Santa Rosa Memorial Hospital) - Inflammatory fibroid polyp (3)
Santa Barbara (Santa Barbara Cottage Hospital) - GIST
San Diego (Naval Medical Center) - Inflammatory fibroid polyp
Ventura - Inflammatory fibroid polyp
Alaska (Alaska Native Medical Center) - Inflammatory fibroid polyp
Arizona (Maryvale Medical Center) - Inflammatory fibroid polyp
Florida (Baptist Hospital) - Inflammatory fibroid polyp (Vanek's tumor)
Florida (Munroe Regional Medical Center) - Inflammatory fibroid polyp
Florida (Tallahassee) - Inflammatory fibroid polyp
Florida (Winter Haven Hospital) - Benign GIST
Illinois (Heartland Regional Medical) - Inflammatory fibroid polyp
Illinois (Northwestern Memorial Hospital) - Inflammatory fibroid polyp
Indiana (Howard Community Hospital) - Inflammatory fibroid polyp
Louisiana (Louisiana State University Medical Center) - Inflammatory fibroid polyp
Maryland (National Naval Medical Center) - Inflammatory myofibroblastic tumor
Massachusetts (Berkshire Medical Center) - Inflammatory pseudotumor
Massachusetts (New England Medical Center Residents) - Inflammatory fibroid polyp
Michigan (Oakwood Hospital) - Inflammatory fibroid polyp
Michigan (St. Joseph Mercy Hospital) - Inflammatory fibroid polyp
Minnesota (Fairview Southdale Hospital) - Inflammatory fibroid polyp
Nebraska (Creighton University School of Medicine Residents) - Inflammatory fibroid polyp

[New Jersey \(Long Island Jewish Medical Center\)](#) - Inflammatory fibroid tumor
[New Mexico \(University of New Mexico\)](#) - Inflammatory fibroid polyp
[New York \(Long Island Jewish Medical Center\)](#) - Inflammatory fibroid polyp
[New York \(New York Presbyterian Hospital Residents\)](#) - Inflammatory fibroid polyp
[New York \(Stony Brook University Hospital Residents\)](#) - Inflammatory fibroid polyp
[Ohio \(Medical College of Ohio Residents\)](#) - Inflammatory fibroid polyp
[Pennsylvania \(Allegheny General Hospital\)](#) - Inflammatory pseudotumor (inflammatory myofibroblastic tumor)
[Pennsylvania \(Centre Community Hospital\)](#) - Malakoplakia, stomach
[Pennsylvania \(Drexel University School of Medicine\)](#) - Inflammatory fibroid polyp
[Pennsylvania \(Lehigh Valley Hospital\)](#) - Inflammatory fibroid polyp (3)
[Pennsylvania \(UPMC Health System\)](#) - Inflammatory fibroid polyp
[Pennsylvania \(York Laboratory Associates\)](#) - Inflammatory fibroid polyp (8)
[Puerto Rico \(University of Puerto Rico\)](#) - Inflammatory fibroid polyp
[Rhode Island \(RI Hospital Residents\)](#) - Inflammatory fibroid polyp
[Texas \(Propath Associates\)](#) - Inflammatory polyp (1); Eosinophilic granulomatous polyp (inflammatory fibroid polyp) (1)
[Texas \(Scott & White Memorial Hospital\)](#) - Inflammatory fibroid polyp
[Texas \(Universal City\)](#) - Neurofibroma
[West Virginia \(Greenbrier Valley Medical Center\)](#) - Inflammatory fibroid polyp
[Wisconsin \(Meriter Hospital\)](#) - Inflammatory fibroid polyp
[Australia \(North Queensland Pathology\)](#) - Inflammatory pseudopolyp
[Australia \(Royal Prince Alfred Hospital\)](#) - Inflammatory fibroid polyp
[Canada \(Foothills Medical Center\)](#) - Inflammatory fibroid polyp
[Hong Kong \(Hong Kong Baptist Hospital\)](#) - Inflammatory pseudotumor
[Italy \(Naples\)](#) - Inflammatory fibroid polyp
[Jamaica \(University Hospital of the West Indies\)](#) - Inflammatory fibroid polyp
[Qatar \(Hamad Medical Corporation\)](#) - Inflammatory fibroid polyp

Case 2 - Diagnosis:

Inflammatory fibroid polyp, stomach
T-63000, M-76830

Case 2 - References:

Makhoul HR and Sobin LH. Inflammatory Myofibroblastic Tumors (Inflammatory Pseudotumors) of the Gastrointestinal Tract. How Closely Are They Related to Inflammatory Fibroid Polyps? *Hum Pathol* 2002; 33(3):307-315.
 Kolodziejczyk P, Yao T and Tsuneyashi M. Inflammatory Fibroid Polyp of the Stomach. A Special Reference to an Immunohistochemical Profile of 42 Cases. *Am J Surg Pathol* 1993; 17(11):1159-1168.
 Aogi K, Hirai T, Mukaida H, et al: Laparoscopic Resection of Submucosal Gastric Tumors. *Surg Today*, 1999; 29(2):102-6.
 Muehldorfer SM, Stolte M, Martus P, et al: Diagnostic Accuracy Of Forceps Biopsy Versus Polypectomy For Gastric Polyps: A Prospective Multicentric Study. *Gut*, 2002 Apr; 50(4):465-70.

Case No. 3, Accession No. 29675

November 2003

[Alameda \(Alameda County Medical Center\)](#) - Gastrointestinal stromal tumor
[Bakersfield](#) - Mesenteric fibromatosis
[Baldwin Park \(Kaiser Permanente\)](#) - Intra-abdominal fibromatosis (1); Leiomyoma (2)
[Hayward/Fremont](#) - Gastrointestinal stromal tumor
[Laguna Beach \(South Coast Medical Center\)](#) - Leiomyosarcoma vs. aggressive fibromatosis
[Irvine \(UC Davis Medical Center Residents\)](#) - Mesenteric fibromatosis
[Long Beach \(Lakewood Regional Medical Center\)](#) - GIST, low grade (8)
[Loma Linda \(Loma Linda University Residents\)](#) - Aggressive mesenteric fibromatosis
[Mountain View \(El Camino Pathology Group\)](#) - Fibromatosis
[Oakland \(Kaiser Permanente\)](#) - Malignant gastrointestinal stromal tumor (4)
[Orange \(Orange County Pathology Medical Group\)](#) - Gastrointestinal stromal tumor

Santa Rosa (Santa Rosa Memorial Hospital) - Leiomyoma (2); Gastrointestinal stromal tumor, probably malignant (1)
Santa Barbara (Santa Barbara Cottage Hospital) - Leiomyosarcoma
San Diego (Naval Medical Center) - Gastrointestinal stromal tumor (GIST) (10); Leiomyoma (2); Stump (1); Desmoid (1)
Ventura - Spindle cell gastrointestinal stromal tumor of low-grade malignancy
Alaska (Alaska Native Medical Center) - Consistent with gastrointestinal stromal tumor (GIST), malignant
Arizona (Maryvale Medical Center) - Leiomyosarcoma
Florida (Baptist Hospital) - Malignant stromal tumor, leiomyosarcoma
Florida (Munroe Regional Medical Center) - Gastric stromal tumor
Florida (Tallahassee) - GIST, desmoid, inflammatory myofibroblastic tumor
Florida (Winter Haven Hospital) - Mesenteric fibromatosis
Illinois (Heartland Regional Medical) - GIST, low grade malignant
Illinois (Northwestern Memorial Hospital) - GIST/fibromatosis
Indiana (Howard Community Hospital) - Adenomatoid tumor
Louisiana (Louisiana State University Medical Center) - GIST
Maryland (National Naval Medical Center) - Mesenteric fibromatosis
Massachusetts (Berkshire Medical Center) - GIST
Massachusetts (New England Medical Center Residents) - Fibromatosis
Michigan (Oakwood Hospital) - Malignant GIST vs. leiomyosarcoma
Michigan (St. Joseph Mercy Hospital) - Desmoid (3); Gastrointestinal stromal tumor (2)
Minnesota (Fairview Southdale Hospital) - Favor GIST (vs. SMT)
Nebraska (Creighton University School of Medicine Residents) - Leiomyosarcoma
New Jersey (Long Island Jewish Medical Center) - Desmoid tumor
New Mexico (University of New Mexico) - Fibromatosis
New York (Long Island Jewish Medical Center) - Mesenteric fibromatosis
New York (New York Presbyterian Hospital Residents) - GI stromal tumor (GIST)
New York (Stony Brook University Hospital Residents) - Leiomyosarcoma
Ohio (Medical College of Ohio Residents) - Mesenteric fibromatosis
Pennsylvania (Allegheny General Hospital) - GIST
Pennsylvania (Centre Community Hospital) - Mesenteric fibromatosis
Pennsylvania (Drexel University School of Medicine) - Fibromatosis
Pennsylvania (Lehigh Valley Hospital) - Leiomyoma, gastrointestinal (GIST) (1); Malignant gastro-intestinal stromal tumor (1); Leiomyosarcoma (1)
Pennsylvania (UPMC Health System) - Fibromatosis (desmoid)
Pennsylvania (York Laboratory Associates) - Post operative spindle cell tumor vs. fibromatosis (6); Fibromatosis vs. post-operative spindle cell (1); Fibromatosis (1)
Puerto Rico (University of Puerto Rico) - Sarcoma, NOS
Rhode Island (RI Hospital Residents) - Metastatic endometrial stromal sarcoma, or malignant extrapleural solitary fibrous tumor
Texas (Propath Associates) - Desmoid tumor (2)
Texas (Scott & White Memorial Hospital) - Extra-abdominal fibromatosis
Texas (Universal City) - Gastrointestinal stromal tumor
West Virginia (Greenbrier Valley Medical Center) - Leiomyoblastoma
Wisconsin (Meriter Hospital) - Mesenteric fibromatosis
Australia (North Queensland Pathology) - Leiomyosarcoma vs. malignant GIST
Australia (Royal Prince Alfred Hospital) - Intra-abdominal fibromatosis
Canada (Foothills Medical Center) - Fibromatosis
Hong Kong (Hong Kong Baptist Hospital) - Fibromatosis
Italy (Naples) - Gastrointestinal stromal tumor, malignant by history
Jamaica (University Hospital of the West Indies) - Fibromatosis
Qatar (Hamad Medical Corporation) - Aggressive mesenteric fibromatosis

Case 3 - Diagnosis:

Intra-abdominal (mesenteric) fibromatosis

T-50500, M-76100

Case 3 - References:

Montgomery E, Torbenson MS, Kaushal M, et al. Beta-Caterin Immunohistochemistry Separates Mestenteric Fibromatosis From Gastrointestinal Stromal Tumor and Sclerosing Mesenteritis. *Am J Surg Pathol* 2002; 26(10):1296-1301.

Yantiss RK, Spiro IJ, Compton CC, Rosenberg AE: Gastrointestinal Stromal Tumor Versus Intra-Abdominal Fibromatosis Of The Bowel Wall: A Clinically Important Differential Diagnosis. *Am J Surg Pathol*, 2000 Jul; 24(7):947-57.

Soravia C, Berk T, McLeod RS, Cohen Z: Desmoid Disease In Patients With Familial Adenomatous Polyposis. *Dis Colon Rectum*, 2000 Mar; 43(3):363-9.

Al-Nafussi A, Wong NA: Intra-Abdominal Spindle Cell Lesions: A Rare Review And Practical Aids To Diagnosis. *Histopathology*, 2001 May; 38(5):387-402.

See Also Case #5 References.

Case No. 4, Accession No. 29622

November 2003

Alameda (Alameda County Medical Center) - Leiomyoma

Bakersfield - Low grade leiomyosarcoma

Baldwin Park (Kaiser Permanente) - Leiomyosarcoma (3)

Hayward/Fremont - Smooth muscle tumor, probably malignant

Laguna Beach (South Coast Medical Center) - Leiomyosarcoma

Irvine (UC Davis Medical Center Residents) - Leiomyosarcoma

Long Beach (Lakewood Regional Medical Center) - Leiomyosarcoma, low grade (8)

Loma Linda (Loma Linda University Residents) - Leiomyoma

Mountain View (El Camino Pathology Group) - Leiomyoma

Oakland (Kaiser Permanente) - Leiomyoma (4)

Orange (Orange County Pathology Medical Group) - Leiomyoma

Santa Rosa (Santa Rosa Memorial Hospital) - Leiomyoma (2); Smooth muscle neoplasm, probably leiomyoma (1)

Santa Barbara (Santa Barbara Cottage Hospital) - Leiomyoma

San Diego (Naval Medical Center) - Low grade leiomyosarcoma

Ventura - Low grade leiomyosarcoma

Alaska (Alaska Native Medical Center) - Well-differentiated leiomyosarcoma (1); Leiomyoma (2)

Arizona (Maryvale Medical Center) - Leiomyoma

Florida (Baptist Hospital) - Smooth muscle tumor of uncertain malignant potential

Florida (Munroe Regional Medical Center) - Leiomyoma

Florida (Tallahassee) - Leiomyoma

Florida (Winter Haven Hospital) - Well-differentiated leiomyosarcoma

Illinois (Heartland Regional Medical) - GIST (smooth muscle tumor) of uncertain malignant potential

Illinois (Northwestern Memorial Hospital) - Leiomyoma

Indiana (Howard Community Hospital) - Low grade leiomyosarcoma

Louisiana (Louisiana State University Medical Center) - Leiomyoma

Maryland (National Naval Medical Center) - Leiomyosarcoma (7); Smooth muscle tumor of uncertain malignant potential (7)

Massachusetts (Berkshire Medical Center) - Leiomyoma

Massachusetts (New England Medical Center Residents) - Leiomyoma

Michigan (Oakwood Hospital) - Leiomyosarcoma

Michigan (St. Joseph Mercy Hospital) - Leiomyoma

Minnesota (Fairview Southdale Hospital) - Leiomyoma

Nebraska (Creighton University School of Medicine Residents) - Leiomyoma

New Jersey (Long Island Jewish Medical Center) - Leiomyoma

New Mexico (University of New Mexico) - Smooth muscle tumor of uncertain malignant potential

New York (Long Island Jewish Medical Center) - Leiomyosarcoma, low grade

New York (New York Presbyterian Hospital Residents) - Leiomyosarcoma, low grade

New York (Stony Brook University Hospital Residents) - Leiomyoma

Ohio (Medical College of Ohio Residents) - Leiomyoma

Pennsylvania (Allegheny General Hospital) - Smooth muscle neoplasm of uncertain malignant potential
Pennsylvania (Centre Community Hospital) - Leiomyoma
Pennsylvania (Drexel University School of Medicine) - Leiomyoma
Pennsylvania (Lehigh Valley Hospital) - Leiomyoma (3)
Pennsylvania (UPMC Health System) - Leiomyoma with ulceration
Pennsylvania (York Laboratory Associates) - Leiomyosarcoma, well-differentiated (3); Leiomyosarcoma, low grade (2); Leiomyosarcoma (3)
Puerto Rico (University of Puerto Rico) - Leiomyosarcoma
Rhode Island (RI Hospital Residents) - Leiomyoma
Texas (ProPath Associates) - Leiomyosarcoma (2)
Texas (Scott & White Memorial Hospital) - Leiomyoma
Texas (Universal City) - Leiomyoma
West Virginia (Greenbrier Valley Medical Center) - Stromal tumor
Wisconsin (Meriter Hospital) - Leiomyoma
Australia (North Queensland Pathology) - Well-differentiated leiomyosarcoma
Australia (Royal Prince Alfred Hospital) - Smooth muscle tumor, probably low grade leiomyosarcoma
Canada (Foothills Medical Center) - Leiomyosarcoma
Hong Kong (Hong Kong Baptist Hospital) - Leiomyoma
Italy (Naples) - Leiomyoma
Jamaica (University Hospital of the West Indies) - Leiomyoma
Qatar (Hamad Medical Corporation) - Low grade leiomyosarcoma

Case 4 - Diagnosis:

Leiomyosarcoma, colon
T-67000, M-88903

Case 4 - References:

Miettinen M, Sarlomo-Rikala M, Sobin LH, et al. Gastrointestinal Stromal Tumors and Leiomyosarcomas in the Colon. A Clinicopathologic, Immunohistochemical, and Molecular Genetic Study of 44 Cases. *Am J Surg Pathol* 2000; 24(10):1339-1352.
 Lee SH, Ha HK, Byun JY, et al. Radiological Features of Leiomyomatous Tumors of the Colon and Rectum. *J Comput Assist Tomogr* 2000; 24(3):407-412.
 Kameyama H, Niwa Y, Arisawa T, et al. Endoscopic Ultrasonography in the Diagnosis of Submucosal Lesion of the Large Intestine. *Gastrointest Endosc* 1997; 46(5):406-411.
 Johnson MA, Gibbs DH, Gouldman J, et al. Leiomyosarcoma of the Colon. A Second Malignant Neoplasm After Treatment for a Wilms' Tumor. *Am Surg* 1999; 65(1):6-10.
 Iwasa K, Taniguchi K, Noguchi M, et al. Leiomyosarcoma of the Colon Presenting as Acute Suppurative Peritonitis. *Surg Today* 1997; 27(4):337-344. Review.
 Yamagishi S, Fujimori H, Iwase T: Caffeine-Assisted Chemotherapy For Colonic Leiomyosarcoma. *Am J Gastroenterol*, 1999 Apr; 94(4):1111-3.

Case No. 5, Accession No. 29539

November 2003

Alameda (Alameda County Medical Center) - Inflammatory myofibroblastic tumor
Bakersfield - Gastrointestinal stromal tumor
Baldwin Park (Kaiser Permanente) - Gastrointestinal stromal tumor (3)
Hayward/Fremont - Reactive nodular fibrous pseudotumor
Laguna Beach (South Coast Medical Center) - Gastrointestinal stromal tumor
Irvine (UC Davis Medical Center Residents) - Gastrointestinal stromal tumor
Long Beach (Lakewood Regional Medical Center) - Gastrointestinal stromal tumor, low grade (8)
Loma Linda (Loma Linda University Residents) - Gastrointestinal stromal tumor
Mountain View (El Camino Pathology Group) - Gastrointestinal stromal tumor
Oakland (Kaiser Permanente) - Fibromatosis (3); Gastrointestinal stromal tumor (1)
Orange (Orange County Pathology Medical Group) - Fibromatosis
Santa Rosa (Santa Rosa Memorial Hospital) - Gastrointestinal stromal tumor (GIST) (3)

Santa Barbara (Santa Barbara Cottage Hospital) - Gastrointestinal stroma tumor, malignant
San Diego (Naval Medical Center) - Desmoid tumor (aggressive mesentery fibrosis)
Ventura - Benign gastrointestinal stromal tumor
Alaska (Alaska Native Medical Center) - Gastrointestinal stromal tumor (GIST), mesenteric
Arizona (Maryvale Medical Center) - Mesenteric fibromatosis
Florida (Baptist Hospital) - Mesenteric fibromatosis
Florida (Munroe Regional Medical Center) - Gastrointestinal stromal tumor
Florida (Tallahassee) - Gastrointestinal stromal tumor
Florida (Winter Haven Hospital) - Benign gastrointestinal stromal tumor
Illinois (Heartland Regional Medical) - Gastrointestinal stromal tumor, low grade malignant
Illinois (Northwestern Memorial Hospital) - Fibromatosis
Indiana (Howard Community Hospital) - Gastrointestinal stromal tumor
Louisiana (Louisiana State University Medical Center) - Fibromatosis (desmoid tumor)
Maryland (National Naval Medical Center) - Gastrointestinal stromal tumor with myxoid features
Massachusetts (Berkshire Medical Center) - Gastrointestinal stromal tumor
Massachusetts (New England Medical Center Residents) - Gastrointestinal stromal tumor
Michigan (Oakwood Hospital) - Fibromatosis
Michigan (St. Joseph Mercy Hospital) - Gastrointestinal stromal tumor
Minnesota (Fairview Southdale Hospital) - Gastrointestinal stromal tumor
Nebraska (Creighton University School of Medicine Residents) - Gastrointestinal stromal tumor
New Jersey (Long Island Jewish Medical Center) - Gastrointestinal stromal tumor
New Mexico (University of New Mexico) - Gastrointestinal stromal tumor
New York (Long Island Jewish Medical Center) - Gastrointestinal stromal tumor
New York (New York Presbyterian Hospital Residents) - Desmoid tumor
New York (Stony Brook University Hospital Residents) - Gastrointestinal stromal tumor
Ohio (Medical College of Ohio Residents) - Gastrointestinal stromal tumor (GIST)
Pennsylvania (Allegheny General Hospital) - Gastrointestinal stromal tumor (mesenteric GIST)
Pennsylvania (Centre Community Hospital) - Mesenteric fibromatosis
Pennsylvania (Drexel University School of Medicine) - Gastrointestinal stromal tumor, malignant
Pennsylvania (Lehigh Valley Hospital) - Gastrointestinal stromal tumor (3)
Pennsylvania (UPMC Health System) - Gastrointestinal low grade, uncertain biopsy malignant (few mitosis, no necrosis)
Pennsylvania (York Laboratory Associates) - Gastrointestinal stromal tumor (8)
Puerto Rico (University of Puerto Rico) - Gastrointestinal stromal tumor, probably malignant
Rhode Island (RI Hospital Residents) - Gastrointestinal stromal tumor
Texas (ProPath Associates) - Stromal cell tumor of low malignant potential (2)
Texas (Scott & White Memorial Hospital) - Gastrointestinal stromal tumor
Texas (Universal City) - Fibromatosis
West Virginia (Greenbrier Valley Medical Center) - Gastrointestinal stromal tumor
Wisconsin (Meriter Hospital) - Extra gastrointestinal stromal sarcoma
Australia (North Queensland Pathology) - High grade GIST
Australia (Royal Prince Alfred Hospital) - Fibromatosis with nodular fasciitis like areas (5); Gastrointestinal stromal tumor (5)
Canada (Foothills Medical Center) - Gastrointestinal stromal tumor
Hong Kong (Hong Kong Baptist Hospital) - Gastrointestinal stromal tumor
Italy (Naples) - Malignant gastrointestinal stromal tumor
Jamaica (University Hospital of the West Indies) - Gastrointestinal stromal tumor
Qatar (Hamad Medical Corporation) - Gastrointestinal stromal tumor, borderline

Case 5 - Diagnosis:

Gastrointestinal stromal tumor, small bowel

T-64000, M-88903

Case 5 - References:

- Miettinen M, Sarloma-Rikala M and Lasota J. Gastrointestinal Stromal Tumors. Recent Advances in Understanding of their Biology. *Hum Pathol* 1999; 30(10):1213-1220. Review.
- Goldblum JR and Appelman HD. Stromal Tumors of the Duodenum. A Histologic and Immuno Histochemical Study of 20 Cases. *Am J Surg Pathol* 1995; 19(1):71-80.
- Tworek JA, Appelman HD, Singleton TP, et al. Stromal Tumors of the Jejunum and Ileum. *Mod Pathol* 1997; 10(3):200-209.
- Sarloma-Rikala M, Kovatich AJ, Barusevicius A, et al. CD117. A Sensitive Marker for Gastrointestinal Stromal Tumors That Is More Specific Than CD34. *Mod Pathol* 1998; 11(8):728-734.
- Tuveson DA, Willis NA, Jacks T, Griffin JP, et al. ST1571 Inactivation of Gastrointestinal Stromal Tumor c-Kit Oncoprotein. Biochemical and Clinical Implications. *Oncogen* 2001; 20(36):5054-5058.

Case No. 6, Accession No. 29795

November 2003

Alameda (Alameda County Medical Center) - Solid pseudopapillary tumor

Bakersfield - Solid cystic papillary epithelial neoplasm

Baldwin Park (Kaiser Permanente) - Solid and cystic tumor of pancreas (3)

Hayward/Fremont - Solid pseudopapillary tumor (and synonyms)

Laguna Beach (South Coast Medical Center) - Solid cystic papillary neoplasm (Gruber-Frantz tumor)

Irvine (UC Davis Medical Center Residents) - Solid pseudopapillary tumor of pancreas

Long Beach (Lakewood Regional Medical Center) - Solid and cystic pseudopapillary tumor (8)

Loma Linda (Loma Linda University Residents) - Solid pseudopapillary type of pancreas (solid or papillary cystic tumor)

Mountain View (El Camino Pathology Group) - Solid and cystic papillary tumor

Oakland (Kaiser Permanente) - Solid pseudopapillary tumor (4)

Orange (Orange County Pathology Medical Group) - Solid and papillary epithelial neoplasm

Santa Rosa (Santa Rosa Memorial Hospital) - Solid pseudopapillary tumor of pancreas (3)

Santa Barbara (Santa Barbara Cottage Hospital) - Solid cystic papillary neoplasm

San Diego (Naval Medical Center) - Solid cystic papillary epithelial neoplasm

Ventura - Serous microcystic adenoma

Alaska (Alaska Native Medical Center) - Solid pseudopapillary tumor of pancreas

Arizona (Maryvale Medical Center) - Solid pseudopapillary tumor, pancreas

Florida (Baptist Hospital) - Gruber-Frantz tumor

Florida (Munroe Regional Medical Center) - Solid pseudopapillary tumor

Florida (Tallahassee) - Solid pseudopapillary tumor of the pancreas

Florida (Winter Haven Hospital) - Solid and papillary epithelial neoplasm

Illinois (Heartland Regional Medical) - Solid pseudopapillary tumor (solid cystic tumor)

Illinois (Northwestern Memorial Hospital) - Solid pseudopapillary tumor

Indiana (Howard Community Hospital) - Solid pseudopapillary tumor

Louisiana (Louisiana State University Medical Center) - Solid and cystic pseudopapillary tumor of the pancreas

Maryland (National Naval Medical Center) - Solid pseudopapillary tumor

Massachusetts (Berkshire Medical Center) - Solid and pseudopapillary tumor

Massachusetts (New England Medical Center Residents) - Gruber-Frantz tumor

Michigan (Oakwood Hospital) - Solid pseudopapillary tumor

Michigan (St. Joseph Mercy Hospital) - Solid and cystic pseudopapillary tumor

Minnesota (Fairview Southdale Hospital) - Solid and cystic pancreatic tumor (papillary)

Nebraska (Creighton University School of Medicine Residents) - Papillary and solid epithelial neoplasm

New Jersey (Long Island Jewish Medical Center) - Solid pseudopapillary pancreatic tumor

New Mexico (University of New Mexico) - Solid pseudopapillary tumor

New York (Long Island Jewish Medical Center) - Solid cystic papillary epithelioid neoplasm

New York (New York Presbyterian Hospital Residents) - Solid pseudopapillary neoplasm

New York (Stony Brook University Hospital Residents) - Solid pseudopapillary tumor

Ohio (Medical College of Ohio Residents) - Solid pseudopapillary tumor

Pennsylvania (Allegheny General Hospital) - Solid and cystic pseudopapillary neoplasm

Pennsylvania (Centre Community Hospital) - Solid and papillary epithelial neoplasm, pancreas
Pennsylvania (Drexel University School of Medicine) - Gruber-Frantz tumor (solid cystic papillary epithelial neoplasm)
Pennsylvania (Lehigh Valley Hospital) - Solid pseudopapillary tumor of pancreas (3)
Pennsylvania (UPMC Health System) - Gruber-Frantz tumor (solid cystic papillary epithelial neoplasm)
Pennsylvania (York Laboratory Associates) - Solid pseudocystic papillary tumor of pancreas (8)
Puerto Rico (University of Puerto Rico) - Solid pseudopapillary tumor
Rhode Island (RI Hospital Residents) - Solid pseudopapillary tumor
Texas (ProPath Associates) - Papillary and solid epithelial neoplasm (2)
Texas (Scott & White Memorial Hospital) - Solid pseudopapillary tumor
Texas (Universal City) - Solid pseudopapillary neoplasm
West Virginia (Greenbrier Valley Medical Center) - Solid pseudopapillary tumor
Wisconsin (Meriter Hospital) - Solid pseudopapillary tumor
Australia (North Queensland Pathology) - Solid pseudopapillary tumor
Australia (Royal Prince Alfred Hospital) - Solid pseudopapillary neoplasm
Canada (Foothills Medical Center) - Solid and pseudopapillary tumor
Hong Kong (Hong Kong Baptist Hospital) - Solid cystic papillary epithelial neoplasm
Italy (Naples) - Solid pseudopapillary tumor of pancreas
Jamaica (University Hospital of the West Indies) - Metastatic serous carcinoma (ovary)
Qatar (Hamad Medical Corporation) - Solid cystic papillary pancreatic tumor

Case 6 - Diagnosis:

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

Case 6 - References:

Martin RC, Klimstra DS, Brennan MF, et al. Solid-Pseudopapillary Tumor of the Pancreas. A Surgical Enigma? *Ann Surg Oncol* 2002; 9(1):35-40.
 Lieber MR, Lack EE, Roberts JRJ, et al. Solid Papillary Epithelial Neoplasms of the Pancreas. An Ultrastructural and Immunocytochemical Study of Six Cases. *Am J Surg Pathol* 1987; 11(2):85-93.
 Adsay NV, Klimstra DS: Cystic Forms Of Typically Solid Pancreatic Tumors. *Semin Diagn Pathol*, 2000 Feb; 17(1):81-8.
 Klimstra DS, Wenig BM, Heffess CS: Solid-Pseudopapillary Tumor Of The Pancreas: A Typically Cystic Carcinoma Of Low Malignant Potential. *Semin Diagn Pathol*, 2000 Feb; 17(1):66-80.
 Abraham SC, Klimstra DS, Wilentz RE, et al: Solid-Pseudopapillary Tumors Of The Pancreas Are Genetically Distinct From Pancreatic Ductal Adenocarcinomas And Almost Always Harbor Beta-Catenin Mutations. *Am J Pathol*, 2002 Apr; 160(4):1361-9.

Case No. 7, Accession No. 29769

November 2003

Alameda (Alameda County Medical Center) - Neurofibroma
Bakersfield - Ganglioneuroma
Baldwin Park (Kaiser Permanente) - Ganglioneuroma (3)
Hayward/Fremont - Ganglioneuroma
Laguna Beach (South Coast Medical Center) - Ganglioneuroma
Irvine (UC Davis Medical Center Residents) - Ganglioneuroma
Long Beach (Lakewood Regional Medical Center) - Ganglioneuroma (8)
Loma Linda (Loma Linda University Residents) - Peripheral nerve sheath tumor favor ganglioneurofibroma
Mountain View (El Camino Pathology Group) - Schwannoma
Oakland (Kaiser Permanente) - Ganglioneuroma (4)
Orange (Orange County Pathology Medical Group) - Ganglioneuroma
Santa Rosa (Santa Rosa Memorial Hospital) - Ganglioneuroma
Santa Barbara (Santa Barbara Cottage Hospital) - Ganglioneuroma
San Diego (Naval Medical Center) - Ganglioneuroma
Ventura - Ganglioneuroma

Alaska (Alaska Native Medical Center) - Ganglioneuroma
Arizona (Maryvale Medical Center) - Schwannoma, colon
Florida (Baptist Hospital) - Ganglioneuroma
Florida (Munroe Regional Medical Center) - Schwannoma
Florida (Tallahassee) - Ganglioneuroma
Florida (Winter Haven Hospital) - Ganglioneuroma
Illinois (Heartland Regional Medical) - Ganglioneuroma
Illinois (Northwestern Memorial Hospital) - Neurofibroma
Indiana (Howard Community Hospital) - Ganglioneuroma
Louisiana (Louisiana State University Medical Center) - Ganglioneuroma
Maryland (National Naval Medical Center) - Ganglioneuroma
Massachusetts (Berkshire Medical Center) - Ganglioneuroma
Massachusetts (New England Medical Center Residents) - Ganglioneuroma
Michigan (Oakwood Hospital) - Ganglioneuroma
Michigan (St. Joseph Mercy Hospital) - Ganglioneuroma
Minnesota (Fairview Southdale Hospital) - Ganglioneuroma
Nebraska (Creighton University School of Medicine Residents) - Ganglioneuroma
New Jersey (Long Island Jewish Medical Center) - Ganglioneurofibroma
New Mexico (University of New Mexico) - Ganglioneurofibroma
New York (Long Island Jewish Medical Center) - Ganglioneuroma
New York (New York Presbyterian Hospital Residents) - Ganglioneuroma
New York (Stony Brook University Hospital Residents) - Ganglioneuroma
Ohio (Medical College of Ohio Residents) - Ganglioneuroma
Pennsylvania (Allegheny General Hospital) - Ganglioneuroma
Pennsylvania (Centre Community Hospital) - Ganglioneuroma
Pennsylvania (Drexel University School of Medicine) - Neurofibroma
Pennsylvania (Lehigh Valley Hospital) - Neurofibroma (1); Ganglioneuroma (2)
Pennsylvania (UPMC Health System) - Schwannoma (von Recklinghausen's disease)
Pennsylvania (York Laboratory Associates) - Ganglioneuroma (8)
Puerto Rico (University of Puerto Rico) - Polypoid ganglioneuroma
Rhode Island (RI Hospital Residents) - Ganglioneuroma
Texas (Propath Associates) - Polypoid ganglioneuroma (2)
Texas (Scott & White Memorial Hospital) - Ganglioneuroma
Texas (Universal City) - Ganglioneuroma
West Virginia (Greenbrier Valley Medical Center) - Schwannoma
Wisconsin (Meriter Hospital) - Neurofibroma
Australia (North Queensland Pathology) - Ganglioneuroma
Australia (Royal Prince Alfred Hospital) - Neurofibroma
Canada (Foothills Medical Center) - Ganglioneuroma
Hong Kong (Hong Kong Baptist Hospital) - Ganglioneuroma
Italy (Naples) - Ganglioneuroma
Jamaica (University Hospital of the West Indies) - Ganglioneuromatosis
Qatar (Hamad Medical Corporation) - Ganglioneuroma

Case 7 - Diagnosis:

Ganglioneuroma, colon
T-67000, M-94900

Case 7 - References:

Fields SA and Libson E. CT-Guided Aspiration Core Needle Biopsy of Gastrointestinal Wall Lesions. *J Comput Assist Tomogr* 2000; 24(2):224-228.
 Shekitka KM and Sobin LH. Ganglioneuromas of the Gastrointestinal Tract. Relation of Von Recklinghausen Disease and Other Multiple Tumor Syndromes. *Am J Surg Pathol* 1994; 18(3):250-257.
 Srinivasan R and Mayle JE. Polypoid Ganglioneuroma of Colon. *Dig Dis Sci* 1998; 43(4):908-909.

Bibro MC, Houlihan RK and Sheahan DG. Colonic Ganglioneuroma. *Arch Surg* 1980; 115(1):75-77.
Srinivasan R and Mayle JE. Polypoid Ganglioneuroma of Colon. *Dig Dis Sci* 1998; 43(4):908-909.

Case No. 8, Accession No. 29781

November 2003

Alameda (Alameda County Medical Center) - Neuroendocrine tumor (carcinoid)
Bakersfield - Neuroendocrine carcinoma
Baldwin Park (Kaiser Permanente) - Carcinoid tumor (3)
Hayward/Fremont - Carcinoid (malignant neuroendocrine tumor), probably metastatic
Laguna Beach (South Coast Medical Center) - Atypical carcinoid
Irvine (UC Davis Medical Center Residents) - Metastatic neuroendocrine tumor
Long Beach (Lakewood Regional Medical Center) - Neuroendocrine carcinoma (8)
Loma Linda (Loma Linda University Residents) - High grade neuroendocrine carcinoma
Mountain View (El Camino Pathology Group) - Well-differentiated neuroendocrine carcinoma
Oakland (Kaiser Permanente) - Neuroendocrine tumor (carcinoid) (4)
Orange (Orange County Pathology Medical Group) - Carcinoid tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Neuroendocrine carcinoma (2); Carcinoid, high grade (1)
Santa Barbara (Santa Barbara Cottage Hospital) - Carcinoid tumor
San Diego (Naval Medical Center) - Atypical carcinoid (10); Large cell neuroendocrine carcinoma (5); Small cell carcinoma (2)
Ventura - Carcinoid
Alaska (Alaska Native Medical Center) - Neuroendocrine (small cell) carcinoma
Arizona (Maryvale Medical Center) - Carcinoid tumor
Florida (Baptist Hospital) - Heterotopic pancreas with an endocrine neoplasm/carcinoid
Florida (Munroe Regional Medical Center) - Carcinoid
Florida (Tallahassee) - Low grade neuroendocrine carcinoma atypical carcinoid
Florida (Winter Haven Hospital) - Malignant carcinoid
Illinois (Heartland Regional Medical) - Atypical carcinoid tumor
Illinois (Northwestern Memorial Hospital) - Malignant carcinoid
Indiana (Howard Community Hospital) - Carcinoid
Louisiana (Louisiana State University Medical Center) - Acinic endocrine carcinoma of the pancreas
Maryland (National Naval Medical Center) - Mixed acinar endocrine tumor (7); Carcinoid (5); Neuroendocrine tumor, NOS (2)
Massachusetts (Berkshire Medical Center) - Neuroendocrine tumor with malignant features
Massachusetts (New England Medical Center Residents) - Carcinoid
Michigan (Oakwood Hospital) - Carcinoid
Michigan (St. Joseph Mercy Hospital) - Atypical carcinoid
Minnesota (Fairview Southdale Hospital) - Neuroendocrine carcinoma
Nebraska (Creighton University School of Medicine Residents) - Carcinoid, malignant/atypical
New Jersey (Long Island Jewish Medical Center) - Neuroendocrine large cell carcinoma
New Mexico (University of New Mexico) - Neuroendocrine carcinoma
New York (Long Island Jewish Medical Center) - Neuroendocrine carcinoma
New York (New York Presbyterian Hospital Residents) - Aggressive carcinoid
New York (Stony Brook University Hospital Residents) - Carcinoid
Ohio (Medical College of Ohio Residents) - Poorly differentiated neuroendocrine carcinoma
Pennsylvania (Allegheny General Hospital) - Moderately differentiated neuroendocrine carcinoma
Pennsylvania (Centre Community Hospital) - Carcinoid tumor, atypical
Pennsylvania (Drexel University School of Medicine) - Neuroendocrine carcinoma
Pennsylvania (Lehigh Valley Hospital) - Carcinoid tumor (3)
Pennsylvania (UPMC Health System) - Neuroendocrine tumor carcinoma
Pennsylvania (York Laboratory Associates) - Neuroendocrine carcinoma, high grade (8)
Puerto Rico (University of Puerto Rico) - Atypical carcinoid
Rhode Island (RI Hospital Residents) - Atypical carcinoid, high grade

Texas (ProPath Associates) - Carcinoid tumor (2)
Texas (Scott & White Memorial Hospital) - Neuroendocrine carcinoma
Texas (Universal City) - Neuroendocrine neoplasm
West Virginia (Greenbrier Valley Medical Center) - Carcinoid tumor, metastatic
Wisconsin (Meriter Hospital) - Atypical carcinoid
Australia (North Queensland Pathology) - Malignant carcinoid
Australia (Royal Prince Alfred Hospital) - Carcinoid (metastatic ? primary)
Canada (Foothills Medical Center) - Neuroendocrine carcinoma
Hong Kong (Hong Kong Baptist Hospital) - Neuroendocrine carcinoma
Italy (Naples) - Carcinoid tumor
Jamaica (University Hospital of the West Indies) - Carcinoid
Qatar (Hamad Medical Corporation) - Carcinoid tumor (well-differentiated neuroendocrine carcinoma)

Case 8 - Diagnosis:

Neuroendocrine carcinoma, stomach
T-63000, M-82401

Case 8 – References:

Marsh HM. Carcinoid Crisis During Anesthesia. Successful Treatment with Somatostatin Analogue. *Anesthes* 1987; 66(1):89-91.
 D'Adda T, Candidus S, Denk H, et al. Gastric Neuroendocrine Neoplasms. Tumour Clonality and Malignancy-Associated Large X-Chromosomal Deletions. *J Pathol* 1999; 189(3):394-401.
 Wilander E, Lundqvist M and Oberg K. Gastrointestinal Carcinoid Tumours. Histogenetic, Histochemical, Immunohistochemical, Clinical and Therapeutic Aspects. *Prog Histochem Cytochem* 1989; 19(2):1-88.
 Belous TA, Litvinova LV and Frank GA. Neuroendocrine Stomach Carcinoma. *Arkh Patol* 1994; 56(1):46-50. Russian.

Case No. 9, Accession No. 29690

November 2003

Alameda (Alameda County Medical Center) - Hepatocellular carcinoma
Bakersfield - Hepatocellular carcinoma
Baldwin Park (Kaiser Permanente) - Well-differentiated hepatocellular carcinoma (1); Hepatic adenoma vs. well-differentiated hepatocellular carcinoma, cirrhosis (1); Hepatoma (well-differentiated hepatocellular carcinoma) (1)
Hayward/Fremont - Hepatocellular carcinoma
Laguna Beach (South Coast Medical Center) - Hepatocellular carcinoma, pseudoglandular variant
Irvine (UC Davis Medical Center Residents) - Hepatocellular carcinoma, pseudoglandular type
Long Beach (Lakewood Regional Medical Center) - Hepatocellular carcinoma (8)
Loma Linda (Loma Linda University Residents) - Well-differentiated hepatocellular carcinoma
Mountain View (El Camino Pathology Group) - Hepatocellular carcinoma
Oakland (Kaiser Permanente) - Hepatocellular carcinoma (4)
Orange (Orange County Pathology Medical Group) - Hepatocellular carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Hepatocellular carcinoma
Santa Barbara (Santa Barbara Cottage Hospital) - Hepatocellular carcinoma
San Diego (Naval Medical Center) - Hepatocellular carcinoma
Ventura - Hepatocellular carcinoma
Alaska (Alaska Native Medical Center) - Hepatocellular carcinoma, pseudoglandular pattern, moderately differentiated
Arizona (Maryvale Medical Center) - Hepatocellular carcinoma, acinar type
Florida (Baptist Hospital) - Hepatocellular carcinoma with a pseudoglandular pattern and cirrhosis
Florida (Munroe Regional Medical Center) - Hepatocellular carcinoma
Florida (Tallahassee) - Hepatoma
Florida (Winter Haven Hospital) - Hepatoma
Illinois (Heartland Regional Medical) - Hepatocellular carcinoma, cirrhosis
Illinois (Northwestern Memorial Hospital) - Hepatocellular carcinoma
Indiana (Howard Community Hospital) - Hepatocarcinoma

Louisiana (Louisiana State University Medical Center) - Hepatocellular carcinoma
Maryland (National Naval Medical Center) - Hepatocellular carcinoma with pseudoglandular features
Massachusetts (Berkshire Medical Center) - Hepatocellular carcinoma
Massachusetts (New England Medical Center Residents) - Hepatocellular carcinoma
Michigan (Oakwood Hospital) - Hepatocellular carcinoma
Michigan (St. Joseph Mercy Hospital) - Hepatoma
Minnesota (Fairview Southdale Hospital) - Hepatocellular carcinoma
Nebraska (Creighton University School of Medicine Residents) - Hepatoma
New Jersey (Long Island Jewish Medical Center) - Hepatocellular carcinoma, well-differentiated
New Mexico (University of New Mexico) - Hepatocellular carcinoma
New York (Long Island Jewish Medical Center) - Hepatocellular carcinoma
New York (New York Presbyterian Hospital Residents) - Hepatocellular carcinoma
New York (Stony Brook University Hospital Residents) - Hepatocellular carcinoma
Ohio (Medical College of Ohio Residents) - Hepatocellular carcinoma
Pennsylvania (Allegheny General Hospital) - Hepatocellular carcinoma
Pennsylvania (Centre Community Hospital) - Hepatocellular carcinoma, pseudoglandular type
Pennsylvania (Drexel University School of Medicine) - Hepatocellular carcinoma
Pennsylvania (Lehigh Valley Hospital) - Hepatocellular carcinoma (3)
Pennsylvania (UPMC Health System) - Hepatocellular carcinoma
Pennsylvania (York Laboratory Associates) - Hepatocellular carcinoma (8)
Puerto Rico (University of Puerto Rico) - Hepatocellular carcinoma
Rhode Island (RI Hospital Residents) - Hepatocellular carcinoma
Texas (Propath Associates) - Hepatocellular carcinoma (2)
Texas (Scott & White Memorial Hospital) - Hepatocellular carcinoma
Texas (Universal City) - Hepatocellular carcinoma
West Virginia (Greenbrier Valley Medical Center) - Hepatocellular carcinoma, pseudoglandular
Wisconsin (Meriter Hospital) - Hepatocellular carcinoma
Australia (North Queensland Pathology) - Acinar variety of hepatocellular carcinoma
Australia (Royal Prince Alfred Hospital) - Hepatocellular carcinoma
Canada (Foothills Medical Center) - Hepatocellular carcinoma
Hong Kong (Hong Kong Baptist Hospital) - Hepatocellular carcinoma
Italy (Naples) - Hepatocellular carcinoma
Jamaica (University Hospital of the West Indies) - Hepatocellular carcinoma
Qatar (Hamad Medical Corporation) - Hepatocellular carcinoma

Case 9 - Diagnosis:

Hepatocellular carcinoma, liver

T-56000, M-81703

Case 9 – References:

Lauwers GY, Terris B, Bales UJ, et al. Prognostic Histologic Indicators of Curatively Resected Hepatocellular Carcinomas. A Multi-Institutional Analysis of 425 Patients with Definition of Histologic Prognostic Index. *Am J Surg Pathol* 2002; 26(1):25-34.
 Torbenson M, Marinopoulou S, Dang DT, et al. Smad 4 Overexpression in Hepatocellular Carcinoma is Strongly Associated with Transforming Growth Factor Beta II Receptor Immunolabeling. *Hum Pathol* 2002; 33(9):871-876.
 Ijichi M, Takayama T, Matsumura M, et al. Alpha-Feto-Protein mRNA in Circulation as a Predictor of Post-Surgical Recurrence of Hepatocellular Carcinoma. A Prospective Study. *Hepatology* 2002; 35(4):853-860.
 Lau SK, Prakash S, Geller SA, et al. Comparative Immunohistochemical Profile of Hepatocellular Carcinoma, Cholangiocarcinoma, and Metastatic Adenocarcinoma. *Hum Pathol* 2002; 33(12):1175-1181.
 Ryder SD. Guidelines for the Diagnosis and Treatment of Hepatocellular Carcinoma (HCC) in Adults. *Gut* 2003; 52(Suppl 3);iii1-iii8.

Alameda (Alameda County Medical Center) - Mucinous gastric carcinoma
Bakersfield - Mucin-secreting adenocarcinoma
Baldwin Park (Kaiser Permanente) - Mucin secreting cells consistent with pseudomyxoma peritonei (2); Pseudomyxoma peritonei (1)
Hayward/Fremont - Mucinous adenocarcinoma
Laguna Beach (South Coast Medical Center) - Mucocele (cannot exclude an adjacent malignant neoplasm)
Irvine (UC Davis Medical Center Residents) - Mucinous adenocarcinoma
Long Beach (Lakewood Regional Medical Center) - Mucinous adenocarcinoma (8)
Loma Linda (Loma Linda University Residents) - Mucinous pools highly suggestive of adjacent mucoid adenocarcinoma
Mountain View (El Camino Pathology Group) - Mucinous adenocarcinoma
Oakland (Kaiser Permanente) - Signet ring cell adenocarcinoma (4)
Orange (Orange County Pathology Medical Group) - Adenocarcinoma, colloid/mucinous type
Santa Rosa (Santa Rosa Memorial Hospital) - Mucinous carcinoma (2); Extensive mucin lakes (no definite carcinoma cells present in our section, but probably mucinous carcinoma (1)
Santa Barbara (Santa Barbara Cottage Hospital) - Mucinous carcinoma
San Diego (Naval Medical Center) - Mucinous adenocarcinoma
Ventura - Mucinous carcinoma
Alaska (Alaska Native Medical Center) - Adenocarcinoma, mucinous
Arizona (Maryvale Medical Center) - Mucinous (colloid) carcinoma
Florida (Baptist Hospital) - Submucosal mucin pools, suspect adenocarcinoma
Florida (Munroe Regional Medical Center) - Pseudomyxoma
Florida (Tallahassee) - Mucinous carcinoma
Florida (Winter Haven Hospital) - Mucinous adenocarcinoma
Illinois (Heartland Regional Medical) - Intramural mucinous deposits within stomach, no malignant neoplasm identified in available section
Illinois (Northwestern Memorial Hospital) - Colloid carcinoma
Indiana (Howard Community Hospital) - Mucinous adenocarcinoma, can't diagnose it in this section
Louisiana (Louisiana State University Medical Center) - Mucinous carcinoma
Maryland (National Naval Medical Center) - Mucinous adenocarcinoma
Massachusetts (Berkshire Medical Center) - Mucocele
Massachusetts (New England Medical Center Residents) - Adenocarcinoma, mucinous
Michigan (Oakwood Hospital) - Acellular mucin, cannot exclude mucinous peritoneal carcinomatous
Michigan (St. Joseph Mercy Hospital) - Signet ring cell carcinoma
Minnesota (Fairview Southdale Hospital) - Pseudomyxoma peritonei
Nebraska (Creighton University School of Medicine Residents) - Low grade mucinous adenocarcinoma
New Jersey (Long Island Jewish Medical Center) - Mucinous carcinoma ("cell poor")
New Mexico (University of New Mexico) - Liposarcoma
New York (Long Island Jewish Medical Center) - Suspicious toy mucinous carcinoma
New York (New York Presbyterian Hospital Residents) - Signet ring cell adenocarcinoma
New York (Stony Brook University Hospital Residents) - Mucinous carcinoma
Ohio (Medical College of Ohio Residents) - Mucinous tumor of uncertain malignant potential
Pennsylvania (Allegheny General Hospital) - Mucinous carcinoma
Pennsylvania (Centre Community Hospital) - Signet ring cell carcinoma with abundant extracellular mucin
Pennsylvania (Drexel University School of Medicine) - Mucinous adenocarcinoma
Pennsylvania (Lehigh Valley Hospital) - Mucinous adenocarcinoma (2); Colloid carcinoma (1)
Pennsylvania (UPMC Health System) - Pseudomyxoma with mucin dissection with fibrosis absence of neoplastic cells
Pennsylvania (York Laboratory Associates) - Dissecting mucin in gastric wall (1); Dissecting mucin in gastric wall, suspicious for adenocarcinoma (4); Mucin lakes rule out carcinoma, rule out medical disorder (1); Dissecting mucin, rule out carcinoma (1); Dissecting mucin, rule out pseudomyxoma vs. mucinous carcinoma (1)
Puerto Rico (University of Puerto Rico) - Mucinous adenocarcinoma
Rhode Island (RI Hospital Residents) - Mucinous adenocarcinoma with extensive degeneration
Texas (ProPath Associates) - Hyperplastic polyp with benign mucinous (2)

Texas (Scott & White Memorial Hospital) - Mucinous lakes, probably signet ring cell carcinoma
Texas (Universal City) - Mucinous adenocarcinoma
West Virginia (Greenbrier Valley Medical Center) - Adenocarcinoma, myxoid
Wisconsin (Meriter Hospital) - Mucinous (colloid) carcinoma
Australia (North Queensland Pathology) - Colloid carcinoma vs. colitis cystica profunda
Australia (Royal Prince Alfred Hospital) - ? mucinous carcinoma
Canada (Foothills Medical Center) - Adenocarcinoma post radiotherapy and/or chemotherapy
Hong Kong (Hong Kong Baptist Hospital) - Poorly differentiated adenocarcinoma
Italy (Naples) - Poorly differentiated mucinous adenocarcinoma
Jamaica (University Hospital of the West Indies) - Mucinous adenocarcinoma
Qatar (Hamad Medical Corporation) - Mucin secreting gastric adenocarcinoma

Case 10 - Diagnosis:

Mucinous adenocarcinoma, stomach
T-63000, M-84803

Director's Note: Some slides showed only dissecting mucin lakes, and lacked atypical “floating” glandular epithelium. (drc)

Case 10 - References:

Caruso RA: The Histogenesis Of Mucinous Adenocarcinoma Of The Stomach From Observations In Early Gastric Cancer. *Ann Diagn Pathol*, 1999 Jun; 3(3):160-4
 Adachi Y, Kitano S, Mori M: A Clinicopathologic Study Of Mucinous Gastric Carcinoma Including Multivariate Analysis. *Cancer*, 1999 Apr 15; 85(8):1868-9.
 Adachi Y, Yasuda K, Inomata M, et al: Clinicopathologic Study Of Early-Stage Mucinous Gastric Carcinoma. *Cancer*, 2001 Feb 15; 91(4):698-703.
 Bemelman WA, van Delden OM, Lanschot JJ, et al. Laparoscopy and Laparoscopic Ultrasonography in Staging of Carcinoma of the Esophagus and Gastric Cardia. *J Am Coll Surg* 1995; 181(5):421-425.
 MacDonald WC and MacDonald JB. Adenocarcinoma of the Esophagus and/or Gastric Cardia. *Cancer* 1987; 60(5):1094-1098.