“DIGESTIVE SYSTEM PATHOLOGY”

Study Cases, Subscription A

September 2006

California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
Loma Linda University School of Medicine
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**Target audience:**
Practicing pathologists and pathology residents.

**Goal:**
To acquaint the participant with the histologic features of a variety of benign and malignant neoplasms and tumor-like conditions.

**Objectives:**
The participant will be able to recognize morphologic features of a variety of benign and malignant neoplasms and tumor-like conditions and relate those processes to pertinent references in the medical literature.

**Educational methods and media:**
Review of representative glass slides with associated histories.
Feedback on consensus diagnoses from participating pathologists.
Listing of selected references from the medical literature.

**Principal faculty:**
Donald R. Chase, MD

**CME Credit:**
Loma Linda University School of Medicine designates this continuing medical education activity for up to 2 hours of Category I of the Physician’s Recognition Award of the American Medical Association.
CME credit is offered for the subscription year only.

**Accreditation:**
Loma Linda University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians.
Contributor: Philip Robinson, M.D.
Boynton Beach, FL

Tissue from: Small Intestine

Clinical Abstract:
This 76 year old woman presented with abdominal pain and was found to have cholelithiasis and a small bowel intussusception.

Gross Pathology:
An 18 cm long segment of small bowel included a 10 cm long intussusception. At the leading edge of the intussusception was a 4 cm diameter submucosal mass with overlying erosion of the mucosa. The cut surface of the mass was homogeneous tan-brown and extended to the underlying muscularis propria.

SPECIAL STUDIES:
Spindle cells were negative for pankeratin, S100, desmin and CD34.

Contributor: James McCusker, M.D.
Woodland, CA

Tissue from: Sigmoid colon

Clinical Abstract:
A 74 year old woman had a portion of her sigmoid colon resected at the time of a ventral hernia repair.

Gross Pathology:
A 12 cm long portion of colon contained two polyps and multiple diverticula. The polyps were 1.2 x 0.7 cm and 1 x 0.8 cm in diameter. The cut surfaces were cystic, filled with gelatinous material, as were several foci in the underlying subperitoneal tissues.
Contributor: LLU Pathology Group (jdc)  
Loma Linda, CA  

Tissue from: Cecum  
Accession #29734  

Clinical Abstract:  
An 80 year old man with cirrhosis underwent a right hemicolecctomy.

Gross Pathology:  
Adjacent to the ilececal valve in this 16 cm long segment of colon and terminal ileum was a 6.0 x 5.0 x 2.5 cm red-brown mass with heaped up edges.

Contributor: James Anhalt, M.D.  
Bakersfield, CA  

Tissue from: Small bowel  
Accession #29445  

Clinical Abstract:  
A 57 year old man presented with symptoms of bowel obstruction and underwent segmental resection of his small intestine.

Gross Pathology:  
A 10 cm long segment of small intestine showed a 2 cm long region of narrowing by a submucosal nodular thickening. The cut surface was golden-yellow and fibrotic.
Clinical Abstract:
An 81 year old man complained of increasing abdominal girth. CT scan showed a large abdominal mass in the left upper quadrant, abutting and displacing the stomach, left lateral segment of liver, inferior vena cava and spleen. The mass was resected along with a partial gastrectomy and partial resection of the liver.

Gross Pathology:
The 3450 gram specimen included a 30 x 26 x 12 cm, multinodular, partially cystic soft tissue mass attached to a 7 cm long portion of gastric wall. The cut surface was yellow-white with multiple areas of cystic degeneration and hemorrhage.

Special Studies:
Positive: CD34, smooth muscle actin
Negative: Desmin, S100

Clinical Abstract:
A 75-year-old male resident of a care facility was brought in the ER for abdominal discomfort, weakness and hypoglycemia. Workup revealed that the patient had pancreatitis. He had had some upper abdominal gastric surgery previously. A re-excisional biopsy was performed.

Gross Pathology:
The 25 gram oval, velvet, pink specimen measured 5.5 x 4.0 x 4.0 cm. Much of the structure was covered with a pink, smooth membrane. There were two sutures present that marked the margins of a resection on the pink membrane.

Special studies:
Positive: CD34, CD117
Negative: S100
Contributor: LLU Pathology Group (kt)  
Loma Linda, CA

Tissue from: Gallbladder & Liver

Clinical Abstract:
A 57 year old woman underwent a liver transplant for advanced cirrhosis associated with alcoholic liver disease.
A 61 year old man had a known lung mass. He had a rapid downhill course and died.

Gross Pathology:
The 1,350 gram, 24.0 x 14.5 x 8.5 cm multinodular liver had an attached 9.0 x 5.5 x 2.5 cm gallbladder with a single 2.5 cm smooth black stone. Within the wall of the gallbladder was a 2.2 x 1.5 x 1.1 cm firm mass. Grossly, the overlying mucosa was intact.
Autopsy showed a 4 cm diameter mass occluding the right mainstem bronchus and numerous nodules involving the liver.

Special Stains:
- Variably positive: Cytokeratin cocktail, CAM 5.2, chromogranin
- Strongly positive: Synaptophysin, NSE

Contributor: Peter Morris, M.D.  
Santa Barbara, CA

Tissue from: Gallbladder

Clinical Abstract:
During work-up for gallstone pancreatitis, this 72 year old woman was found on CT to have a polypoid mass within her gallbladder.

Gross Pathology:
The 64 gram, 8.5 x 4.5 x 4.5 cm gallbladder was filled by a 7.5 x 3.5 x 3.0 cm red-tan, focally hemorrhagic exophytic mass attached to the wall by a 5.5 cm wide base. Cut sections show the mass to penetrate into the gallbladder wall to within 0.1 cm of the serosal surface and liver bed margins.
Contributor: John McGill, M.D.  
Pasadena, CA  
Case No. 9 - September 2006  
Tissue from: Pancreas  
Accession #30146  

Clinical Abstract:  
After complaining of persistent abdominal pain, this 62 year old woman was found to have a large mass involving the body and tail of her pancreas.

Gross Pathology:  
The distal pancreas and attached spleen weighed 422 grams. A 12.5 x 7.2 x 6.5 cm mass replaced most of the resected pancreas. The cut surface showed multiple small cysts, devoid of papillations and filled with clear fluid. There were occasional foci of hemorrhage and greater than half of the mass was calcified.

Contributor: Faramarz Azizi, M.D.  
Fontana, CA  
Case No. 10 - September 2006  
Tissue from: Pancreas  
Accession #29954  

Clinical Abstract:  
After experiencing two episodes of peri-umbilical pain radiating to the right upper quadrant, this 33 year woman presented for work-up. An ultrasound of the abdomen showed a 5.1 x 4.8 cm solid mass in the pancreas. CT scan showed a 7 x 5 cm heterogeneous mass, predominantly solid, in the body and tail of the pancreas. She underwent a distal pancreatectomy.

Gross Pathology:  
The 210 gram, 15.2 x 7.3 x 6.5 cm distal pancreas contained a 6.5 x 6.0 x 5.2 cm hemorrhagic, variegated gray-white mass.

Special Studies:  
Negative: pancytokeratin, chromogranin, synaptophysin, glucagon, insulin
“DIGESTIVE SYSTEM PATHOLOGY”

Minutes – Subscription A

September, 2006

SUGGESTED READING (General Topics from Recent Literature):


FILE DIAGNOSES

(Preferably submitted on website at www.cttr.org. Click “subscriptions”, then submit answers.)

CTTR Subscription A  September, 2006

Case 1:
Inflammatory fibroid polyp, small intestine
T-64000, M-76830

Case 2:
Endometriosis of colon (transmural), sigmoid colon
T-67700, M-76500

Case 3:
Villous adenoma with foci of high-grade dysplasia (“intramucosal carcinoma”)
T-67100, M-8261/1, M-74000

Case 4:
Signet-ring adenocarcinoma, small intestine
T-64000, M-84903

Case 5:
Gastrointestinal stromal tumor, gastric omentum
T-63850, M-88903

Case 6:
Gastrointestinal stromal tumor (GIST), stomach
T-63000, M-88903

Case 7:
Small cell carcinoma/neuroendocrine carcinoma, gallbladder
T-57000, M-8041/3

Case 8:
Adenocarcinoma with papillary features, gallbladder
T-57000, M-8260/3

Case 9:
Serous microcystic adenoma, pancreas
T-59000, M-8140/0

Case 10:
Solid pseudopapillary neoplasm, pancreas
T-59000, M-80001
Case No. 1 - Accession No. 29217

Baldwin Park (Kaiser Permanente) - Inflammatory myofibroblastic tumor (4)
Fontana (Kaiser Permanente) - Inflammatory fibroid tumor
Glendale - Inflammatory fibroid polyp
Granada Hills - Inflammatory pseudotumor
Hayward (Hayward-Fremont) - Inflammatory fibroid polyp
La Jolla (Scripps Health) - Inflammatory fibroid polyp
La Jolla (Scripps Clinic Hematopathology Fellowship) - Inflammatory fibroid polyp
Loma Linda (Loma Linda University Residents) - Mastocytosis (systemic)
Long Beach (VA Long Beach Healthcare System) - Inflammatory pseudotumor (myofibroblastic tumor); Inflammatory fibroid polyp (1)
Monterey (Community Hospital of the Monterey Peninsula) - Inflammatory myofibroblastic tumor vs inflammatory fibroid polyp
Monterey Park (Garfield Medical Center) - Low-grade GIST
Oakland (Alameda County Medical Center) - Inflammatory fibroid polyp
Orange (Orange County Medical Group) - Inflammatory myofibroblastic tumor
Orange (University of California Irvine) - Inflammatory fibroid polyp
Orange County (Kaiser Permanente) - Inflammatory fibroid polyp
Oxnard (St. John's Regional Medical Center) - Inflammatory fibroid polyp (4)
Sacramento (U.C. Davis Residents) - Inflammatory myofibroblastic tumor
San Diego (Alvarado Pathology Associates) - Inflammatory fibroid polyp
San Diego (Naval Medical Center) - Inflammatory fibroid polyp
San Diego (UCSD Medical Center) - Inflammatory fibroid polyp
San Francisco (San Francisco General Hospital) - Inflammatory fibroid polyp
Santa Barbara - Inflammatory pseudotumor
Santa Rosa (Santa Rosa Memorial Hospital) - Inflammatory pseudotumor (3)
Woodland Hills (Kaiser Permanente Medical Center) - Inflammatory fibroid polyp
Woodland Hills (Suda's Soldiers) - Inflammatory myofibroblastic tumor
Arkansas (UAMS) - Inflammatory fibroid polyp, small intestine
Florida (Ameripath) - Gastrointestinal stromal tumor
Florida (Baptist Hospital, Pensacola) - Inflammatory fibroid polyp (3), (eosinophilic granulomatous polyp) (1)
Florida (Jackson Memorial Hospital) - Inflammatory fibroid polyp
Florida (Tallahassee Pathology Associates) - Inflammatory fibroid polyp
Florida (Winter Haven Hospital) - Granulation tissue (2)
Illinois (Loyola University Medical Center) - Inflammatory fibroid polyp
Illinois (MacNeal Memorial Hospital) - GIST, benign (1); Fibromatosis vs. GIST, do CD117 stain (1)
Indiana (Howard Regional Medical Center) - Inflammatory fibrous polyp
Kansas (Physicians Reference Laboratory) - Inflammatory fibroid polyp
Kentucky (University of Louisville) - Inflammatory fibroid polyp
Louisiana (Louisiana State University Health Science Center) - Inflammatory fibroid polyp
Louisiana, Slidell - Inflammatory fibroid tumor
Maryland (Northwest Hospital Center) - Inflammatory fibroid polyp
Maryland (University of Maryland) - Inflammatory fibroid polyp
Maryland (Silver Springs) - Gastrointestinal stromal tumor
Massachusetts (Berkshire Medical Center) - 1. Inflammatory pseudotumor; 2. Inflammatory myofibroblastic tumor
Massachusetts (Tufts-New England Medical Center) - Inflammatory pseudotumor
Massachusetts, Peabody - Gastrointestinal stromal tumor, small intestine
Michigan (Oakwood Hospital) - Inflammatory fibroid polyp (2), inflammatory pseudotumor (1)
Michigan (St. Joseph's Mercy Hospital) - Inflammatory fibroid polyp
Minnesota (Fairview Ridges Hospital) - Inflammatory fibroid polyp
Montana, Missoula - Inflammatory fibroid polyp
Nebraska (Creighton University) - Inflammatory fibroid polyp
New York (Long Island Jewish Medical Center) - Inflammatory polyp

CTTR, September, 2006 "Minutes" (Subscription A)
New York (Nassau University Medical Center) - Vascular leiomyoma
New York (State University of New York at Stony Brook) - Inflammatory fibrous tumor
New York (SUNY Downstate Residents) - Inflammatory fibroid polyp
North Carolina (Mountain Area Pathology) - Inflammatory fibroid polyp (3)
North Carolina (Pathologists Medical Laboratory) - Inflammatory myofibroblastic tumor (1); Inflammatory fibroid polyp (1)
Pennsylvania (Drexel University College of Medicine) - Inflammatory myofibroblastic tumor
Pennsylvania (Lehigh Valley Hospital) - GIST
Pennsylvania (Mt. Nittany Medical Center) - Inflammatory myofibroblastic tumor, small bowel
Pennsylvania (Pennsylvania Hospital Residents) - Inflammatory polyp
Texas (Lackland AFB) - Inflammatory fibroid polyp
Texas (Methodist Hospital) - Inflammatory fibroid polyp
Texas (Scott & White Memorial Hospital) - Inflammatory fibroid polyp
Texas, Lubbock - Gastrointestinal stromal tumor
West Virginia (Greenbrier Valley Medical Center) - Inflammatory fibroid polyp
West Virginia (Wetzel County Hospital) - Inflammatory fibroid polyp
Wisconsin (Meriter Pathology) - Inflammatory fibroid polyp
Australia (Queensland Pathology Group) - Eosinophilic pseudotumour
Australia (Royal Hobart Hospital) - Inflammatory fibroid polyp
Australia (Royal Prince Alfred Hospital) - Inflammatory fibroid polyp
Australia (Sullivan Nicolaides Pathology) - Inflammatory fibroid polyp
Brazil (Laboratorio Anatomia Patologica E Citologia) - Inflammatory fibroid polyp, small intestine
Canada (Pasqua Hospital) - Inflammatory fibroid polyp
Canada (University Hospital of Sherbrooke) - Tumour, hemangiopericytoma-like
Germany (Institut fur Pathologie UKE) - Inflammatory fibroid polyp
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Inflammatory fibroid polyp
Ireland (Kerry General Hospital) - Inflammatory fibroid polyp
Japan (Kyoto University Hospital) - Inflammatory fibroid polyp
Oman (Khoula Hospital) - Inflammatory fibroid polyp
Puerto Rico (University of Puerto Rico) - Inflammatory fibrous polyp
Qatar (Hamad Medical Corporation) - Inflammatory fibroid polyp
Saudi Arabia (King Fahad National Guard Hospital) - Inflammatory fibroid polyp
Saudi Arabia (MCH) - Inflammatory fibroid polyp
Singapore (KK Women’s & Children’s Hospital) - Inflammatory fibroid polyp
The Netherlands, Amstelveen - Gastrointestinal stromal tumor (GIST)
United Kingdom (Oxford Study Group) - Small intestine - Inflammatory fibroid polyp

Case 1 - Diagnosis:
Inflammatory fibroid polyp, small intestine
T-64000, M-76830

Case 1 - References:
Case No. 2 - Accession No. 30166  

September, 2006

Baldwin Park (Kaiser Permanente) - Adenocarcinoma, mucinous type (1); Mucinous adenocarcinoma (1); Invasive well-differentiated mucinous adenocarcinoma of colon (adenoma malignum) (1); Well-differentiated adenocarcinoma, mucin producing (1)
Fontana (Kaiser Permanente) - Endometriosis
Glendale - Endosalpingiosis/endometriosis
Granada Hills - Well-differentiated adenocarcinoma
Hayward (Hayward-Fremont) - Carcinoma in a polyp
La Jolla (Scripps Health) - Endometriosis
La Jolla (Scripps Clinic: Hematopathology Fellowship) - Endometriosis (6); Mullerian neoplasm, NOS (1)
Loma Linda (Loma Linda University Residents) - Colitis cystica profunda
Long Beach (VA Long Beach Healthcare System) - Papillary serous adenocarcinoma arising in endometriosis; Mucin-producing papillary adenocarcinoma (1)
Monterey (Community Hospital of the Monterey Peninsula) - Endometriosis
Monterey Park (Garfield Medical Center) - Mucinous cystic borderline tumor implants
Oakland (Alameda County Medical Center) - Colitis cystica profunda
Orange (Orange County Medical Group) - Colitis cystica profunda
Orange (University of California Irvine) - Metastatic adenocarcinoma, probably from endometrium
Orange County (Kaiser Permanente) - Metastatic ovarian carcinoma
Oxnard (St. John's Regional Medical Center) - Mucinous adenocarcinoma (1); Inverted villoglandular polyp (2), displaced epithelium (1); Inverted villous polyp (1)
Sacramento (U.C. Davis Residents) - Endosalpingiosis
San Diego (Alvarado Pathology Associates) - Colitis cystica profunda
San Diego (Naval Medical Center) - 1. Polypoid endometriosis; 2. Florid cystic endosalpingiosis
San Diego (UCSD Medical Center) - Old endometriosis
San Francisco (San Francisco General Hospital) - Atypical endosalpingiosis (borderline PST)
Santa Barbara - Adenocarcinoma arising in polyp
Santa Rosa (Santa Rosa Memorial Hospital) - Inflammatory polyp, NOS (1); Reactive adenomatous polyp with possible associated ovarian cyst or endometriosis (1); Colitis cystica profunda (1)
Woodland Hills (Kaiser Permanente Medical Center) - Endometriosis
Woodland Hills (Suda's Soldiers) - Endometriosis/endosalpingiosis
Arkansas (UAMS) - Endometrioma, sigmoid colon
Florida (Ameripath) - Mucinous adenocarcinoma
Florida (Baptist Hospital, Pensacola) - Endometriosis (3)
Florida (Jackson Memorial Hospital) - Endosalpingiosis
Florida (Tallahassee Pathology Associates) - Colitis cystica profunda; Inflammatory myoglandular polyp
Florida (Winter Haven Hospital) - Papillary mucinous adenocarcinoma, metastatic (1); Metastatic papillary mucinous adenocarcinoma (1)
Illinois (Loyola University Medical Center) - Papillary adenocarcinoma in endometriosis
Illinois (MacNeal Memorial Hospital) - Adenocarcinoid (1); Adenocarcinoma, n/o endometrial origin (1)
Indiana (Howard Regional Medical Center) - Mucinous adenocarcinoma
Kansas (Physicians Reference Laboratory) - Endometriosis
Kentucky (University of Louisville) - Mullerianosis vs. colitis cystica profunda
Louisiana (Louisiana State University Health Science Center) - Colitis cystica profunda
Louisiana, Slidell - Juvenile (retention) polyp
Maryland (Northwest Hospital Center) - Cystitis cystica profunda
Maryland (University of Maryland) - Well-differentiated adenocarcinoma arising from endometriosis
Maryland (Silver Springs) - Colonic adenocarcinoma
Massachusetts (Berkshire Medical Center) - Endometriosis
Massachusetts (Tufts-New England Medical Center) - Colitis cystica profunda
Massachusetts, Peabody - Hyperplastic polyps, diverticulosis
Michigan (Oakwood Hospital) - Mucinous carcinoma (1); Juvenile polyps (1)
Michigan (St. Joseph's Mercy Hospital) - Adenocarcinoma arising in polyp

CTTR, September, 2006 “Minutes” (Subscription A)
Minnesota (Fairview Ridges Hospital) - Endometriosis with mucinous differentiation/Mullerianosis
Montana, Missoula - Colitis cystica profunda
Nebraska (Creighton University) - Endometriosis with focal atypia
New York (Long Island Jewish Medical Center) - Metastatic endometrial carcinoma
New York (Nassau University Medical Center) - Endometriosis with focal hyperplasia, colon
New York (State University of New York at Stony Brook) - Polyoid endometriosis
New York (SUNY Downstate Residents) - Flat serrated adenoma and colitis cystica profunda vs. Serrated adenoma and hyperplastic polyp with invasion
North Carolina (Mountain Area Pathology) - Adenocarcinoma (2); Colitis cystica profunda/prolapse (1)
North Carolina (Pathologists Medical Laboratory) - Endometriosis (1); Well-differentiated adenocarcinoma (1)
Ohio (McCullough-Hyde Memorial Hospital) - Endosalpingiosis
Pennsylvania (Drexel University College of Medicine) - Adenocarcinoma (moderately differentiated)
Pennsylvania (Lehigh Valley Hospital) - Juvenile polyp
Pennsylvania (Mt. Nittany Medical Center) - Endometriosis, sigmoid colon
Pennsylvania (Pennsylvania Hospital Residents) - Neoplasia arising from endometriosis
Texas (Lackland AFB) - Colitis cystica profunda
Texas (Methodist Hospital) - Moderately-differentiated adenocarcinoma
Texas (Scott & White Memorial Hospital) - Colitis cystica profunda
Texas, Lubbock - Adenocarcinoma arising from a polyp
West Virginia (Greenbrier Valley Medical Center) - Adenocarcinoma – mucous production
West Virginia (Wetzel County Hospital) - Adenocarcinoma invading through the muscularis propria into the serosa (T3)
Wisconsin (Meriter Pathology) - Endometriosis
Australia (Queensland Pathology Group) - Colitis cystica profunda
Australia (Royal Hobart Hospital) - Endometriosis
Australia (Royal Prince Alfred Hospital) - Endometriosis
Australia (Sullivan Nicolaides Pathology) - Endometriosis (atrophic)/Endocervicosis
Brazil (Laboratorio Anatomia Patologica E Citologia) - Prolapse polyp associated with colitis cystica profunda and diverticular disease (1); Endometriosis (1)
Canada (Pasqua Hospital) - Endometriosis with hyperplasia
Canada (University Hospital of Sherbrooke) - Endometriosis
Germany (Institut fur Pathologie UKE) - Adenocarcinoma (endometrioid adenocarcinoma, arising from endometriosis)
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Cystitis cystica profunda, likely related to hernia repair
Ireland (Kerry General Hospital) - Endometriosis
Japan (Kyoto University Hospital) - Mucosal prolapse
Oman (Khoul Hospital) - 1. Ulcerated adenoma with adenomucinosis. 2. Adenocarcinoma.
Puerto Rico (University of Puerto Rico) - Serous-mucinous tumor implants/Endometriosis
Qatar (Hamad Medical Corporation) - Colitis cystica profunda
Saudi Arabia (King Fahad National Guard Hospital) - Colitis cystica profunda and serrated adenoma
Saudi Arabia (MCH) - Adenocarcinoma
Singapore (KK Women’s & Children’s Hospital) - Tubular adenoma with possible involvement of diverticula and pseudo-invasion
The Netherlands, Amstelveen - Well-differentiated mucinous adenocarcinoma
United Kingdom (Oxford Study Group) - Colon – Favor endometriosis

Case 2 - Diagnosis:
Endometriosis of colon (transmural), sigmoid colon
T-67700, M-76500

Case 2 - References:
Case No. 3 - Accession No. 29734  

September, 2006

Baldwin Park (Kaiser Permanente) - Tubulovillous adenoma (1); Villous adenoma (2); Villous adenoma with focal high-grade dysplasia (1)
Fontana (Kaiser Permanente) - Tubular adenoma with high-grade dysplasia
Glendale - Villous adenoma
Granada Hills - Peutz-Jehger polyp
Hayward (Hayward-Fremont) - Villous adenoma
La Jolla (Scripps Health) - Tubulovillous adenoma
La Jolla (Scripps Clinic Hematology Fellowship) - Villous adenoma
Loma Linda (Loma Linda University Residents) - Villous adenoma
Long Beach (VA Long Beach Healthcare System) - Villous adenoma with focal high-grade dysplasia
Monterey (Community Hospital of the Monterey Peninsula) - Villous adenoma with possible focal high-grade dysplasia
Monterey Park (Garfield Medical Center) - Villous adenoma with moderate dysplasia
Oakland (Alameda County Medical Center) - Villous adenoma
Orange (Orange County Medical Group) - Villous adenoma
Orange (University of California Irvine) - Villous adenoma
Orange County (Kaiser Permanente) - Adenocarcinoma in villotubular adenoma
Oxnard (St. John's Regional Medical Center) - Villous adenoma (4)
Sacramento (U.C. Davis Residents) - Tubulovillous adenoma with severe dysplasia (in-situ carcinoma)
San Diego (Alvarado Pathology Associates) - Intramucosal adenocarcinoma in an adenomatous polyp
San Diego (Naval Medical Center) - Tubulovillous adenoma with high-grade dysplasia
San Diego (UCSD Medical Center) - Tubulovillous adenoma
San Francisco (San Francisco General Hospital) - Tubulovillous adenoma with severe atypia
Santa Barbara - Adenocarcinoma in-situ arising in dysplastic villous adenoma
Santa Rosa (Santa Rosa Memorial Hospital) - Villous adenoma (3)
Woodland Hills (Kaiser Permanente Medical Center) - Villous adenoma in-situ
Woodland Hills (Suda's Soldiers) - Villous adenoma with CIS
Arkansas (UAMS) - Tubulovillous adenoma, cecum
Florida (Ameripath) - Tubulovillous adenoma with CIS
Florida (Baptist Hospital, Pensacola) - Serrated adenoma (3)
Florida (Jackson Memorial Hospital) - Villous adenoma
Florida (Tallahassee Pathology Associates) - Villous adenoma with severe dysplasia
Florida (Winter Haven Hospital) - Adenocarcinoma in-situ within villous adenoma (1); Adenocarcinoma in-situ in adenomatous villous polyp (1)
Illinois (Loyola University Medical Center) - Villous adenoma with high-grade dysplasia
Illinois (MacNeal Memorial Hospital) - Villous adenoma with high-grade dysplasia (1); Serrated adenoma (1)
Indiana (Howard Regional Medical Center) - Villous adenoma
Kansas (Physicians Reference Laboratory) - Villous adenoma with no high-grade dysplasia present
Kentucky (University of Louisville) - Tubulovillous adenoma with high-grade dysplasia/intramucosal carcinoma
Louisiana (Louisiana State University Health Science Center) - Villous adenoma
Louisiana, Shreveport - Villous adenoma with CIS
Maryland (Northwest Hospital Center) - Tubulovillous adenoma with high-grade dysplasia
Maryland (University of Maryland) - T-V adenoma with focal H-G dysplasia

CTTR, September, 2006 “Minutes” (Subscription A)
Maryland (Silver Springs) - Tubulovillous adenoma
Massachusetts (Berkshire Medical Center) - 1. Adenocarcinoma in-situ; 2. Villous adenoma with high-grade dysplasia
Massachusetts (Tufts-New England Medical Center) - Villoglandular adenoma with high-grade dysplasia
Massachusetts, Peabody - Villous adenoma, cecum
Michigan (Oakwood Hospital) - Villous adenoma (2)
Michigan (St. Joseph’s Mercy Hospital) - Adenoma
Minnesota (Fairview Ridges Hospital) - Villous adenoma, with area of high-grade dysplasia
Montana, Missoula - Villous adenoma
Nebraska (Creighton University) - In-situ carcinoma of villous adenoma
New Mexico (La Universidad De Nuevo Mexico) - Tubulovillous adenoma with focal carcinoma in-situ
New York (Long Island Jewish Medical Center) - Villous adenoma
New York (Nassau University Medical Center) - Villous adenoma
New York (State University of New York at Stony Brook) - Villous adenoma
New York (SUNY Downstate Residents) - Villous adenoma with severe dysplasia, cannot rule out invasion
North Carolina (Mountain Area Pathology) - Tubulovillous adenoma (3)
North Carolina (Pathologists Medical Laboratory) - Villous adenoma(2), with high-grade dysplasia (1)
Ohio (McCullough-Hyde Memorial Hospital) - Villous adenoma with adenocarcinoma in-situ
Pennsylvania (Drexel University College of Medicine) - Villous adenoma with high-grade dysplasia (carcinoma in-situ)
Pennsylvania (Lehigh Valley Hospital) - Adenoma
Pennsylvania (Mt. Nittany Medical Center) - Sessile serrated adenoma, cecum
Pennsylvania (Pennsylvania Hospital Residents) - Villous adenoma
Texas (Lackland AFB) - Villous adenoma
Texas (Methodist Hospital) - Villous adenoma
Texas (Scott & White Memorial Hospital) - Villous adenoma
Texas, Lubbock - Severe dysplasia in villous polyp
West Virginia (Greenbrier Valley Medical Center) - Villous adenoma
West Virginia (Wetzel County Hospital) - Villous adenoma
Wisconsin (Meriter Pathology) - Villous adenoma with high-grade dysplasia
Australia (Queensland Pathology Group) - Villous adenoma, low-grade dysplasia
Australia (Royal Hobart Hospital) - Tubulo-villous adenoma. No invasion in the submitted section.
Australia (Royal Prince Alfred Hospital) - Villous adenoma with high-grade dysplasia
Australia (Sullivan Nicolaides Pathology) - Villous adenoma
Brazil (Laboratorio Anatomia Patologica E Citologia) - Villous adenoma with high-grade dysplasia
Canada (Pasqua Hospital) - Villous adenoma
Canada (University Hospital of Sherbrooke) - Villous adenoma with low-grade dysplasia
Germany (Institut fur Pathologie UKE) - Villous adenoma (focally high-grade)
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Villous adenoma, low-grade dysplasia
Ireland (Kerry General Hospital) - Villous adenoma
Japan (Kyoto University Hospital) - Villous adenoma
Oman (Khoula Hospital) - Tubulovillous adenoma with moderate dysplasia
Puerto Rico (University of Puerto Rico) - Villous adenoma
Qatar (Hamad Medical Corporation) - Villous adenoma with high-grade dysplasia amounting to intramucosal carcinoma
Saudi Arabia (King Fahad National Guard Hospital) - Villous adenoma, high-grade
Saudi Arabia (MCH) - High-grade dysplasia in adenomatous polyp
Singapore (KK Women’s & Children’s Hospital) - Tubulovillous adenoma with low-grade dysplasia
The Netherlands, Amstelveen - Villous adenoma
United Kingdom (Oxford Study Group) - Caecum - Villous adenoma, moderate dysplasia

Case 3 - Diagnosis:
Villous adenoma with foci of high-grade dysplasia ("intramucosal carcinoma"), cecum
T-67100, M-8261/1, M-74000
Case 3: References:

Case No. 4 - Accession No. 29445

Baldwin Park (Kaiser Permanente) - Poorly-differentiated “signet-ring” carcinoma (1); Signet-ring adenocarcinoma (1); Invasive poorly-differentiated (signet-ring) adenocarcinoma (1); Signet-ring cell carcinoma (1)
Fontana (Kaiser Permanente) - Signet-ring cell carcinoma, metastatic vs. primary
Glendale - Signet-ring cell carcinoma
Granada Hills - Signet-ring cell tumor
Hayward (Hayward-Fremont) - Diffuse (signet-ring) carcinoma
La Jolla (Scripps Health) - Poorly-differentiated signet-ring cell adenocarcinoma
La Jolla (Scripps Clinic Hematopathology Fellowship) - Signet-ring carcinoma
Loma Linda (Loma Linda University Residents) - Diffuse (signet-ring) type adenocarcinoma
Long Beach (VA Long Beach Healthcare System) - Signet-ring cell carcinoma; Neuroendocrine carcinoma (Goblet cell adenocarcinoid) (1)
Monterey (Community Hospital of the Monterey Peninsula) - Signet-ring carcinoma, rule out metastasis
Monterey Park (Garfield Medical Center) - Signet-ring cell adenocarcinoma
Oakland (Alameda County Medical Center) - Signet-ring carcinoma
Orange (Orange County Medical Group) - Adenocarcinoma, signet-ring
Orange (University of California Irvine) - Signet-ring cell carcinoma
Orange County (Kaiser Permanente) - Signet-ring cell carcinoma, metastatic?
Oxnard (St. John’s Regional Medical Center) - Signet-ring adenocarcinoma (4)
Sacramento (U.C. Davis Residents) - Adenocarcinoma with prominent signet-ring cells
San Diego (Alvarado Pathology Associates) - Signet-ring cell adenocarcinoma
San Diego (Naval Medical Center) - Signet-ring cell carcinoma
San Diego (UCSD Medical Center) - Signet-ring carcinoma
San Francisco (San Francisco General Hospital) - Aggressive Goblet cell carcinoid
Santa Barbara - Signet-ring carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Signet-ring adenocarcinoma (3), primary vs. metastatic (1)
Woodland Hills (Kaiser Permanente Medical Center) - Signet-ring cell carcinoma, ? metastatic
Woodland Hills (Suda’s Soldiers) - Signet-ring adenocarcinoma
Arkansas (UAMS) - Signet-ring cell adenocarcinoma, small bowel
Florida (Amerinath) - Signet-ring carcinoma
Florida (Baptist Hospital, Pensacola) - Goblet cell carcinoid (2); Signet-ring cell adenocarcinoma (1)
Florida (Jackson Memorial Hospital) - Signet-ring carcinoma
Florida (Tallahassee Pathology Associates) - Signet-ring cell adenocarcinoma
Florida (Winter Haven Hospital) - Signet cell adenocarcinoma (2)
Illinois (Lovola University Medical Center) - Signet-ring cell carcinoma, rule out neuroendocrine
Illinois (MacNeal Memorial Hospital) - Signet-cell carcinoma (1); Signet-ring cell adenocarcinoma (1)
Indiana (Howard Regional Medical Center) - Signet-ring carcinoma
Kansas (Physicians Reference Laboratory) - Metastatic signet-ring cell carcinoma
Kentucky (University of Louisville) - Signet-ring carcinoma vs. Goblet cell carcinoid
Louisiana (Louisiana State University Health Science Center) - Signet-ring cell adenocarcinoma
Louisiana, Slidell - Signet-ring adenocarcinoma
Maryland (Northwest Hospital Center) - Signet-ring cell adenocarcinoma
Maryland (University of Maryland) - Signet-ring adenocarcinoma
Maryland (Silver Springs) - Goblet cell carcinoid
Massachusetts (Berkshire Medical Center) - Adenocarcinoma, signet-ring cell type
Massachusetts (Tufts-New England Medical Center) - Mucin-producing adenocarcinoma, poorly-differentiated, signet-ring cell type
Massachusetts, Peabody - Signet-ring cell carcinoma, small bowel
Michigan (Oakwood Hospital) - Mucinous carcinoma, signet-ring type (1); Signet-ring adenocarcinoma (1)
Michigan (St. Joseph's Mercy Hospital) - Signet-ring cell adenocarcinoma
Minnesota (Fairview Ridges Hospital) - Signet-ring cell carcinoma (? Gastric primary)
Montana, Missoula - Signet-ring cell adenocarcinoma
Nebraska (Creighton University) - Signet-ring cell carcinoma
New York (Long Island Jewish Medical Center) - Signet-ring cell carcinoma, primary
New York (Nassau University Medical Center) - Mucinous adenocarcinoma, diffusely infiltrating
New York (State University of New York at Stony Brook) - Goblet cell carcinoid
New York (SUNY Downstate Residents) - Goblet adenocarcinoid
North Carolina (Mountain Area Pathology) - Signet-ring cell carcinoma (1); Signet-ring adenocarcinoma (1); Diffuse (signet-ring) adenocarcinoma (1)
North Carolina (Pathologists Medical Laboratory) - Signet-ring cell carcinoma (2)
Ohio (McCullough-Hyde Memorial Hospital) - Signet-ring cell adenocarcinoma
Pennsylvania (Drexel University College of Medicine) - Signet-ring cell carcinoma
Pennsylvania (Lehigh Valley Hospital) - Signet-ring carcinoma
Pennsylvania (Mt. Nittany Medical Center) - Goblet cell carcinoid tumor, small bowel
Pennsylvania (Pennsylvania Hospital Residents) - Signet-ring cell carcinoma
Texas (Lackland AFB) - Signet-ring adenocarcinoma
Texas (Methodist Hospital) - Signet-ring cell carcinoma
Texas, Lubbock - Signet-ring cell carcinoma
West Virginia (Greenbrier Valley Medical Center) - Signet-ring carcinoma
West Virginia (Wetzel County Hospital) - Poorly-differentiated mucinous adenocarcinoma with signet-ring features invading the serosa (T3)
Wisconsin (Merk Pathology) - Signet-cell carcinoma, metastatic
Australia (Queensland Pathology Group) - Goblet cell carcinoid
Australia (Royal Hobart Hospital) - Signet-ring cell carcinoma, small bowel
Australia (Royal Prince Alfred Hospital) - Signet-ring cell carcinoma (? Metastatic)
Australia (Sullivan Nicolaides Pathology) - Adenocarcinoma, signet-ring type
Brazil (Laboratorio Anatomia Patologica E Citologia) - Adenocarcinoma, invasive, poorly-differentiated with signet-ring cells, small intestine
Canada (Pasqua Hospital) - Signet-ring cancer
Canada (University Hospital of Sherbrooke) - Signet-ring cell carcinoma
Germany (Institut für Pathologie UKF) - Signet-ring adenocarcinoma
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Poorly-differentiated (signet-ring cell) carcinoma
Ireland (Kerry General Hospital) - Signet-ring carcinoma, exclude Goblet cell carcinoid
Japan (Kyoto University Hospital) - Signet-ring cell carcinoma, possibly metastatic
Oman (Khoul Hospital) - Signet-ring carcinoma
Puerto Rico (University of Puerto Rico) - Signet-ring cell adenocarcinoma
Qatar (Hamad Medical Corporation) - Signet-ring cell carcinoma
Saudi Arabia (King Fahad National Guard Hospital) - Signet-ring cell carcinoma
Saudi Arabia (MCH) - Signet-ring adenocarcinoma
Singapore (KK Women's & Children's Hospital) - Signet-ring cell carcinoma, to exclude metastases
The Netherlands, Amstelveen - Undifferentiated mucinous adenocarcinoma (differential diagnosis: Goblet cell carcinoid)
United Kingdom (Oxford Study Group) - Small intestine – Goblet cell carcinoid (pending immunohistochemistry)
Case 4 - Diagnosis:  
Signet-ring adenocarcinoma, small intestine  
T-64000, M-84903  

Director's Note: The tumor was clinically thought to be intestinal in origin. The stomach was "normal". (drc)

Case 4 - References:

Case No. 5 - Accession No. 29093  

Baldwin Park (Kaiser Permanente) - GIST (uncertain malignant potential) (4)  
Fontana (Kaiser Permanente) - Gastrointestinal stromal tumor  
Glendale - GIST  
Granada Hills - Gastric leiomyoma  
Hayward (Hayward-Fremont) - Leiomyosarcoma vs. SFT  
La Jolla (Scripps Health) - Gastrointestinal stromal tumor, favor malignant  
La Jolla (Scripps Clinic Hematopathology Fellowship) - Gastrointestinal stromal tumor (GIST), malignant  
Loma Linda (Loma Linda University Residents) - Solitary fibrous tumor  
Long Beach (VA Long Beach Healthcare System) - Malignant gastrointestinal stromal tumor  
Monterey (Community Hospital of the Monterey Peninsula) - GIST  
Monterey Park (Garfield Medical Center) - GIST, intermediate grade  
Oakland (Alameda County Medical Center) - Gastrointestinal stromal tumor, malignant  
Orange (Orange County Medical Group) - Leiomyosarcoma  
Orange (University of California Irvine) - Gastrointestinal stromal tumor  
Orange County (Kaiser Permanente) - GIST  
Oxnard (St. John's Regional Medical Center) - GIST (4)  
Sacramento (U.C. Davis Residents) - Solitary fibrous tumor  
San Diego (Alvarado Pathology Associates) - Gastrointestinal stromal tumor, malignant  
San Diego (Naval Medical Center) - Malignant gastrointestinal stromal tumor  
San Diego (UCSD Medical Center) - Malignant gastrointestinal stromal tumor  
San Francisco (San Francisco General Hospital) - Leiomyosarcoma  
Santa Barbara - Gastrointestinal stromal tumor  
Santa Rosa (Santa Rosa Memorial Hospital) - Gastrointestinal stromal tumor (2); GIST vs. smooth muscle tumor vs. solitary fibrous tumor (1)  
Woodland Hills (Kaiser Permanente Medical Center) - GIST  
Woodland Hills (Suda's Soldiers) - Malignant GIST (high risk)  
Arkansas (UAMS) - Gastrointestinal stromal tumor, stomach/omentum  
Florida (Ameripath) - Malignant fibrohistiocytoma

September, 2006
Florida (Baptist Hospital, Pensacola) - Leiomyosarcoma (1); GIST vs. leiomyosarcoma, need C-kit (1); GIST (1)
Florida (Jackson Memorial Hospital) - Gastrointestinal stromal tumor (GIST)
Florida (Tallahassee Pathology Associates) - GIST, high risk malignant potential
Florida (Winter Haven Hospital) - Leiomyosarcoma (2)
Illinois (Loyola University Medical Center) - Spindle cell tumor, favor GIST
Illinois (MacNeal Memorial Hospital) - Leiomyosarcoma (1); GIST (1)
Indiana (Howard Regional Medical Center) - GIST
Kansas (Physicians Reference Laboratory) - (GIST) Gastrointestinal stromal tumor, low-grade morphology, but greater than 5.0 cm, therefore high-grade
Kentucky (University of Louisville) - Malignant GIST
Louisiana (Louisiana State University Health Science Center) - Favor leiomyosarcoma over GIST
Louisiana, Slidell - Leiomyosarcoma
Maryland (Northwest Hospital Center) - Gastrointestinal stromal tumor
Maryland (University of Maryland) - GIST
Maryland (Silver Spring) - Leiomyosarcoma
Massachusetts (Berkshire Medical Center) - Malignant spindle cell tumor, consistent with GIST
Massachusetts (Tufts-New England Medical Center) - Gastrointestinal stromal tumor/Solitary fibrous tumor
Massachusetts, Peabody - Leiomyosarcoma, gastric omentum
Michigan (Oakwood Hospital) - Gastrointestinal stromal tumor (2), of low malignant potential (1)
Michigan (St. Joseph’s Mercy Hospital) - Gastrointestinal stromal tumor
Minnesota (Fairview Ridges Hospital) - Gastrointestinal stromal tumor
Montana, Missoula - Gastrointestinal stromal tumor
Nebraska (Creighton University) - GIST
New York (Long Island Jewish Medical Center) - Gastrointestinal stromal tumor
New York (Nassau University Medical Center) - GIST
New York (State University of New York at Stony Brook) - Leiomyosarcoma
New York (SUNY Downstate Residents) - Gastrointestinal stromal tumor, malignant
North Carolina (Mountain Area Pathology) - GIST (3)
North Carolina (Pathologists Medical Laboratory) - Malignant gastrointestinal stromal tumor (2)
Ohio (McCullough-Hyde Memorial Hospital) - Spindle cell pancreatic endocrine tumor
Pennsylvania (Drexel University College of Medicine) - GIST, high risk of aggressive behavior
Pennsylvania (Lehigh Valley Hospital) - GIST, malignant
Pennsylvania (Mt. Nittany Medical Center) - GIST, favor malignant, stomach
Pennsylvania (Pennsylvania Hospital Residents) - Gastrointestinal stromal tumor
Texas (Lackland AFB) - GIST
Texas (Methodist Hospital) - Gastrointestinal stromal tumor
Texas (Scott & White Memorial Hospital) - GIST
Texas, Lubbock - Leiomyosarcoma
West Virginia (Greenbrier Valley Medical Center) - Leiomyosarcoma
West Virginia (Wetzel County Hospital) - Malignant GIST
Wisconsin (Meriter Pathology) - GIST
Australia (Queensland Pathology Group) - Leiomyosarcoma/GIST
Australia (Royal Hobart Hospital) - GIST
Australia (Royal Prince Alfred Hospital) - Gastrointestinal stromal tumour (high risk)
Australia (Sullivan Nicolaides Pathology) - GIST
Brazil (Laboratorio Anatomia Patológica E Citologia) - GIST, omentum
Canada (Pasqua Hospital) - GIST
Canada (University Hospital of Sherbrooke) - GIST, high risk
Germany (Institut fur Pathologie UKE) - GIST (malignant)
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - GIST
Ireland (Kerry General Hospital) - GIST
Japan (Kyoto University Hospital) - Gastrointestinal stromal tumor
Oman (Khoul Hospital) - Gastrointestinal stromal tumour
Puerto Rico (University of Puerto Rico) - Smooth muscle tumor vs. Gastrointestinal stromal tumor (GIST) vs. Solitary fibrous tumor
Qatar (Hamad Medical Corporation) - Gastrointestinal stromal tumor, probably malignant
Saudi Arabia (King Fahad National Guard Hospital) - GIST
Saudi Arabia (MCH) - Gastrointestinal stromal tumor, high-grade
Singapore (KK Women's & Children's Hospital) - Gastrointestinal stromal tumor, high risk
The Netherlands, Amstelveen - Gastrointestinal stromal tumor (GIST)
United Kingdom (Oxford Study Group) - Gastro omentum - Leiomyosarcoma

Case 5 - Diagnosis:
Gastrointestinal stromal tumor, gastric omentum
T-63850, M-88903

Director's note: A CD117, done later, was positive. (drc)

Case 5 - References:

Case No. 6 - Accession No. 30125 (originally 30109)  

Baldwin Park (Kaiser Permanente) - GIST (4)
Fontana (Kaiser Permanente) - Gastrointestinal stromal tumor
Glendale - GIST
Granada Hills - Gastric stromal tumor
Hayward (Hayward-Fremont) - GIST
La Jolla (Scripps Health) - Gastrointestinal stromal tumor, favor benign
La Jolla (Scripps Clinic Hematopathology Fellowship) - Gastrointestinal stromal tumor (GIST)
Loma Linda (Loma Linda University Residents) - GIST
Long Beach (VA Long Beach Healthcare System) - Gastrointestinal stromal tumor of unknown malignant potential
Monterey (Community Hospital of the Monterey Peninsula) - GIST
Monterey Park (Garfield Medical Center) - GIST, Intermediate to high grade
Oakland (Alameda County Medical Center) - Gastrointestinal stromal tumor
Orange (Orange County Medical Group) - GI stromal tumor
Orange (University of California Irvine) - Gastrointestinal stromal tumor
Orange County (Kaiser Permanente) - GIST
Oxnard (St. John's Regional Medical Center) - ? sarcomatoid carcinoma (1); GIST (3)
Sacramento (U.C. Davis Residents) - GIST
San Diego (Alvarado Pathology Associates) - Gastrointestinal stromal tumor, malignant
San Diego (Naval Medical Center) - Gastrointestinal stromal tumor (GIST)
San Francisco (San Francisco General Hospital) - Gastrointestinal stromal tumor
Santa Barbara - Consistent with GIST
Santa Rosa (Santa Rosa Memorial Hospital) - Gastrointestinal stromal tumor (2); Spindle cell neoplasm of gastric wall consistent with gastrointestinal stromal tumor (1)

CTTR, September, 2006 “Minutes” (Subscription A)
Wooc!land (Kaiser Permanente Medical Center) - GIST
Wooc!land (Suda's Soldiers) - GIST (high risk)
Arkansas (UAMS) - Gastrointestinal stromal tumor, stomach
Florida (Ameripath) - Gastrointestinal stromal tumor
Florida (Baptist Hospital, Pensacola) - GIST (3)
Florida (Jackson Memorial Hospital) - GIST
Florida (Tallahassee Pathology Associates) - GIST, low risk malignant potential
Florida (Winter Haven Hospital) - GIST (2)
Illinois (Loyola University Medical Center) - Gastric mucosa with underlying probable GIST
Illinois (MacNeal Memorial Hospital) - Stomach GIST (1); GIST vs. smooth muscle tumor (1)
Indiana (Howard Regional Medical Center) - GIST
Kansas (Physicians Reference Laboratory) - Gastrointestinal stromal tumor, high-grade
Kentucky (University of Louisville) - GIST of uncertain malignant potential
Louisiana (Louisiana State University Health Science Center) - Favor GIST
Louisiana, Slidell - GIST tumor
Maryland (Northwest Hospital Center) - Gastrointestinal stromal tumor
Maryland (University of Maryland) - Stomach GIST
Maryland (Silver Springs) - Gastrointestinal stromal tumor
Massachusetts (Berkshire Medical Center) - GIST
Massachusetts (Tufts-New England Medical Center) - Leiomyoblastoma/Leiomyosarcoma
Michigan (Oakwood Hospital) - Gastrointestinal stromal tumor (2)
Michigan (St. Joseph's Mercy Hospital) - Gastrointestinal stromal tumor
Minnesota (Fairview Ridges Hospital) - Gastrointestinal stromal tumor
Montana, Missoula - Gastrointestinal stromal tumor
Nebraska (Creighton University) - GIST
New York (Nassau University Medical Center) - GIST
New York (State University of New York at Stony Brook) - GIST
New York (SUNY Downstate Residents) - Gastrointestinal stromal tumor
North Carolina (Mountain Area Pathology) - GIST (3)
North Carolina (Pathologists Medical Laboratory) - Gastrointestinal stromal tumor (2), benign (1)
Ohio (McCullough-Hyde Memorial Hospital) - GI stromal tumor
Pennsylvania (Drexel University College of Medicine) - GIST
Pennsylvania (Lehigh Valley Hospital) - GIST
Pennsylvania (Mt. Nittany Medical Center) - GIST, favor benign, stomach
Pennsylvania (Pennsylvania Hospital Residents) - Gastrointestinal stromal tumor
Texas (Lackland AFB) - GIST, stomach
Texas (Methodist Hospital) - Gastrointestinal stromal tumor
Texas (Scott & White Memorial Hospital) - GIST
Texas, Lubbock - Gastrointestinal stromal tumor
West Virginia (Greenbrier Valley Medical Center) - Gastrointestinal stromal tumor
West Virginia (Wetzel County Hospital) - Malignant GIST
Wisconsin (Meriter Pathology) - GIST
Australia (Queensland Pathology Group) - GIST
Australia (Royal Hobart Hospital) - GIST
Australia (Royal Prince Alfred Hospital) - Gastrointestinal stromal tumour (intermediate risk)
Australia (Sullivan Nicolaides Pathology) - GIST
Brazil (Laboratorio Anatomiia Patologica E Citologia) - GIST, gastric
Canada (Pasqua Hospital) - GIST
Canada (University Hospital of Sherbrooke) - GIST, spindle cell
Germany (Institut fur Pathologie UKF) - GIST
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - GIST
Ireland (Kerry General Hospital) - GIST
Japan (Kyoto University Hospital) - Gastrointestinal stromal tumor
Case 6 - Diagnosis:
Gastrointestinal stromal tumor (GIST), stomach
T-63000, M-88903

Case 6 - References:

Case No. 7 - Accession No. 29340 & TR54-6038

Baldwin Park (Kaiser Permanente) - Undifferentiated “small cell” carcinoma (1); Neuroendocrine carcinoma (3), small cell (1);
Fontana (Kaiser Permanente) - Neuroendocrine carcinoma
Glendale - Adenocarcinoma and signet-ring cell carcinoma
Granada Hills - Poorly-differentiated large cell tumor with neuroendocrine carcinoma
Hayward (Hayward-Fremont) - Adenomatous hyperplasia + small cell carcinoma
La Jolla (Scripps Health) - Poorly-differentiated adenocarcinoma with neuroendocrine features
La Jolla (Scripps Clinic Hematopathology Fellowship) - Poorly-differentiated neuroendocrine carcinoma
Loma Linda (Loma Linda University Residents) - Small cell carcinoma
Long Beach (VA Long Beach Healthcare System) - Neuroendocrine carcinoma (2), poorly-differentiated (1), high-grade (1)
Monterey (Community Hospital of the Monterey Peninsula) - Poorly-differentiated neuroendocrine carcinoma, metastatic
Monterey Park (Garfield Medical Center) - Neuroendocrine small cell anaplastic carcinoma
Oakland (Alameda County Medical Center) - Undifferentiated carcinoma, small cell type
Orange (Orange County Medical Group) - Neuroendocrine carcinoma
Orange (University of California Irvine) - Neuroendocrine carcinoma & intra-epithelial carcinoma
Orange County (Kaiser Permanente) - Neuroendocrine carcinoma
Oxnard (St. John’s Regional Medical Center) - Carcinoma of neuroendocrine (1); Small cell neuroendocrine carcinoma (1);
Sacramento (U.C. Davis Residents) - Neuroendocrine carcinoma, Grade III
San Diego (Alvarado Pathology Associates) - Large cell neuroendocrine carcinoma
San Diego (Naval Medical Center) - Primary small cell carcinoma of the gallbladder (TR01-29340)
San Diego (UCSD Medical Center) - Poorly-differentiated neuroendocrine carcinoma
San Francisco (San Francisco General Hospital) - Neuroendocrine carcinoma
Santa Barbara - Small cell neuroendocrine carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Neuroendocrine carcinoma (3)
Woodland Hills (Kaiser Permanente Medical Center) - Small cell neuroendocrine carcinoma, favor metastatic
Woodland Hills (Suda's Soldiers) - Metastatic small cell carcinoma
Arkansas (UAMS) - Metastatic pulmonary small cell carcinoma, gallbladder
Florida (Ameripath) - Atypical carcinoid
Florida (Baptist Hospital, Pensacola) - Neuroendocrine carcinoma (2), high-grade (1); Mixed undifferentiated small cell carcinoma and poorly-differentiated adenocarcinoma (1)
Florida (Jackson Memorial Hospital) - Neuroendocrine carcinoma, large cell, Grade II
Florida (Tallahassee Pathology Associates) - Small cell carcinoma
Florida (Winter Haven Hospital) - Small cell carcinoma (2)
Illinois (Loyola University Medical Center) - Atypical carcinoid
Illinois (MacNeal Memorial Hospital) - Neuroendocrine carcinoma (1), small cell neuroendocrine tumor (1)
Indiana (Howard Regional Medical Center) - Carcinoid
Kansas (Physicians Reference Laboratory) - Small cell carcinoma, metastatic to gallbladder (what does TTF-1 show?)
Kentucky (University of Louisville) - Mixed adenocarcinoma - small cell carcinoma
Louisiana (Louisiana State University Health Science Center) - Metastatic small cell carcinoma
Louisiana, Slidell - Malignant carcinoid
Maryland (Northwest Hospital Center) - Small cell carcinoma
Maryland (University of Maryland) - Lung - Small cell carcinoma (wrong slide)
Maryland (Silver Springs) - Metastatic small cell carcinoma
Massachusetts (Berkshire Medical Center) - 1. Adenocarcinoma with malignant neuroendocrine features; 2. Small cell cancer
Massachusetts (Tufts-New England Medical Center) - Poorly-differentiated neuroendocrine carcinoma
Massachusetts, Peabody - Malignant carcinoid tumor
Michigan (Oakwood Hospital) - Neuroendocrine carcinoma, mixed small and large cell (1); Small cell carcinoma (1)
Michigan (St. Joseph's Mercy Hospital) - Large cell neuroendocrine carcinoma
Minnesota (Fairview Ridges Hospital) - Neuroendocrine carcinoma, high-grade
Montana, Missoula - Small cell carcinoma
Nebraska (Creighton University) - Small cell carcinoma
New York (Long Island Jewish Medical Center) - Mixed tumor, adenocarcinoma with small cell carcinoma
New York (Nassau University Medical Center) - Neuroendocrine carcinoma, predominantly small cell type, gallbladder
New York (State University of New York at Stony Brook) - Neuroendocrine carcinoma
New York (SUNY Downstate Residents) - Small cell carcinoma
North Carolina (Mountain Area Pathology) - Metastatic small cell carcinoma (3)
North Carolina (Pathologists Medical Laboratory) - Small cell neuroendocrine carcinoma (1); Small cell carcinoma (1)
Ohio (McCullough-Hyde Memorial Hospital) - Undifferentiated neuroendocrine carcinoma
Pennsylvania (Drexel University College of Medicine) - Neuroendocrine carcinoma
Pennsylvania (Lehigh Valley Hospital) - Neuroendocrine carcinoma, Grade III
Pennsylvania (Mt. Nittany Medical Center) - Small cell carcinoma, gallbladder
Pennsylvania (Pennsylvania Hospital Residents) - Small cell carcinoma
Texas (Lackland AFB) - Neuroendocrine carcinoma
Texas (Methodist Hospital) - Metastatic small cell carcinoma
Texas (Scott & White Memorial Hospital) - Neuroendocrine carcinoma
Texas, Lubbock - Metastatic neuroendocrine carcinoma
West Virginia (Greenbrier Valley Medical Center) - Neuroendocrine carcinoma
West Virginia (Wetzel County Hospital) - Neuroendocrine carcinoma
Wisconsin (Meriter Pathology) - Carcinoid
Australia (Queensland Pathology Group) - Neuroendocrine carcinoma
Australia (Royal Hobart Hospital) - High-grade neuroendocrine carcinoma in gallbladder wall in a background of high-grade mucosal dysplasia
Australia (Royal Prince Alfred Hospital) - Metastatic high-grade neuroendocrine carcinoma (7 Lung primary)
Australia (Sullivan Nicolaides Pathology) - In-situ carcinoma and metastatic small cell undifferentiated carcinoma
Brazil (Laboratorio Anatomia Patologica E Citologia) - High-grade neuroendocrine tumor (NE carcinoma, poorly-differentiated)
Canada (Pasqua Hospital) - Neuroendocrine carcinoma
Canada (University Hospital of Sherbrooke) - Small cell neuroendocrine carcinoma + high-grade dysplasia (epithelium)
Germany (Institut fur Pathologie UKE) - Neuroendocrine tumor (atypical carcinoid)
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Carcinoma with neuroendocrine features
Ireland (Kerry General Hospital) - Carcinoid tumour
Japan (Kyoto University Hospital) - Neuroendocrine carcinoma
Oman (Khoula Hospital) - Neuroendocrine carcinoma
Puerto Rico (University of Puerto Rico) - Neuroendocrine carcinoma (metastatic?)/Adenocarcinoma of gallbladder
Qatar (Hamad Medical Corporation) - Neuroendocrine carcinoma with focal severe mucosal dysplasia
Saudi Arabia (King Fahad National Guard Hospital) - Poorly-differentiated neuroendocrine carcinoma
Saudi Arabia (MCH) - Small cell carcinoma
Singapore (KK Women's & Children's Hospital) - Small cell carcinoma
The Netherlands, Amstelveen - Metastatic small cell lung cancer and adenocarcinoma of the gallbladder
United Kingdom (Oxford Study Group) - Lung - small cell carcinoma

Case 7 - Diagnosis:
Small cell carcinoma/neuroendocrine carcinoma, gallbladder
T-57000, M-8041/3

Director's note: Most study sets had tumor of gallbladder origin. A few had similar neoplasm involving lung. (drc)

Case 7 - References:

Case No. 8 - Accession No. 29440

Baldwin Park (Kaiser Permanente) - Adenocarcinoma with neuroendocrine features (1); Moderately-differentiated adenocarcinoma of the gallbladder (3), invasive (1)
Fontana (Kaiser Permanente) - Adenocarcinoma, gallbladder
Glendale - Adenocarcinoma
Granada Hills - Well-differentiated adenocarcinoma
Hayward (Hayward-Fremont) - Adenocarcinoma, gallbladder
La Jolla (Kaiser Permanente) - Adenocarcinoma
La Jolla (Kaiser Permanente) - Adenocarcinoma, gallbladder
La Jolla (Kaiser Permanente) - Adenocarcinoma (Kaiser Permanente)
Loma Linda (Loma Linda University Residents) - Adenocarcinoma
Long Beach (VA Long Beach Healthcare System) - Adenocarcinoma, moderately well-differentiated
Monterey (Community Hospital of the Monterey Peninsula) - Adenocarcinoma, moderately differentiated
Monterey Park (Garfield Medical Center) - Moderately differentiated adenocarcinoma of gallbladder
Oakland (Alameda County Medical Center) - Adenocarcinoma, invasive
Orange (Orange County Medical Group) - Adenocarcinoma
Orange (University of California Irvine) - Adenocarcinoma
Orange County (Kaiser Permanente) - Adenocarcinoma
Oxnard (St. John's Regional Medical Center) - Adenocarcinoma of gallbladder (4), moderately differentiated (1)
Sacramento (UC, Davis Residents) - Adenocarcinoma
San Diego (Alvarado Pathology Associates) - Adenocarcinoma of gallbladder
San Diego (Naval Medical Center) - Invasive papillary adenocarcinoma of the gallbladder
San Diego (UCSD Medical Center) - Enteric-type adenocarcinoma

CTTR, September, 2006 “Minutes” (Subscription A)
San Francisco (San Francisco General Hospital) - Adenosquamous carcinoma

Santa Barbara - Adenocarcinoma

Santa Rosa (Santa Rosa Memorial Hospital) - Adenocarcinoma of gallbladder (3)

Woodland Hills (Kaiser Permanente Medical Center) - Invasive adenocarcinoma with focal squamous differentiation

Woodland Hills (Suda's Soldiers) - Adenocarcinoma

Arkansas (UAMS) - Adenocarcinoma, gallbladder

Florida (Ameripath) - Adenocarcinoma

Florida (Baptist Hospital, Pensacola) - Adenocarcinoma with papillary features (1); Invasive adenocarcinoma (1); Adenocarcinoma, C.B. 1°

Florida (Jackson Memorial Hospital) - Adenocarcinoma of the gallbladder

Florida (Tallahassee Pathology Associates) - Adenocarcinoma of gallbladder

Florida (Winter Haven Hospital) - Adenocarcinoma (2)

Illinois ( Loyola University Medical Center) - Papillary adenocarcinoma

Illinois (MacNeal Memorial Hospital) - Infiltrating adenocarcinoma, intestinal type (1); Gallbladder adenocarcinoma (1)

Indiana (Howard Regional Medical Center) - Adenocarcinoma, gallbladder

Kansas (Physicians Reference Laboratory) - Invasive moderately-differentiated adenocarcinoma, invades lamina propria (pT1a)

Kentucky (University of Louisville) - Adenocarcinoma of the gallbladder

Louisiana (Louisiana State University Health Science Center) - Invasive adenocarcinoma

Louisiana, Slidell - Polypoid adenocarcinoma

Maryland (Northwest Hospital Center) - In-situ and invasive adenocarcinoma

Maryland (University of Maryland) - Papillary adenocarcinoma

Maryland (Silver Springs) - Well-differentiated gallbladder adenocarcinoma

Massachusetts (Berkshire Medical Center) - Adenocarcinoma of gallbladder

Massachusetts (Tufts-New England Medical Center) - Adenocarcinoma, gallbladder

Massachusetts, Peabody - Adenocarcinoma, gallbladder

Michigan (Oakwood Hospital) - Adenocarcinoma, intestinal type (1); Cholangiocarcinoma (1)

Michigan (St. Joseph's Mercy Hospital) - Adenocarcinoma

Minnesota (Fairview Ridges Hospital) - Adenocarcinoma

Montana, Missoula - Invasive adenocarcinoma

Nebraska (Creighton University) - Adenocarcinoma of gallbladder

New York (Long Island Jewish Medical Center) - Adenocarcinoma, moderately to poorly-differentiated

New York (Nassau University Medical Center) - Infiltrating adenocarcinoma, gallbladder

New York (State University of New York at Stony Brook) - Adenocarcinoma arising in a villous adenoma

New York (SUNY Downstate Residents) - Adenocarcinoma

North Carolina (Mountain Area Pathology) - Adenocarcinoma (2); Moderately differentiated adenocarcinoma (1)

North Carolina (Pathologists Medical Laboratory) - Adenocarcinoma (2)

Ohio (McCullough-Hyde Memorial Hospital) - Adenocarcinoma

Pennsylvania (Drexel University College of Medicine) - Adenocarcinoma of gallbladder (cholangiocarcinoma)

Pennsylvania (Lehigh Valley Hospital) - Adenocarcinoma

Pennsylvania (Mt. Nittany Medical Center) - Invasive papillary adenocarcinoma, gallbladder

Pennsylvania (Pennsylvania Hospital Residents) - Gallbladder carcinoma

Texas (Lackland AFB) - Adenocarcinoma, gallbladder

Texas (Methodist Hospital) - Moderately-differentiated adenocarcinoma

Texas (Scott & White Memorial Hospital) - Invasive adenocarcinoma

Texas, Lubbock - Adenocarcinoma

West Virginia (Greenbrier Valley Medical Center) - Adenocarcinoma, NOS

West Virginia (Wetzel County Hospital) - Invasive moderately-differentiated adenocarcinoma

Wisconsin (Meriter Pathology) - Adenocarcinoma

Australia (Queensland Pathology Group) - Adenocarcinoma of gallbladder

Australia (Royal Hobart Hospital) - Papillary and invasive adenocarcinoma of gallbladder

Australia (Royal Prince Alfred Hospital) - Adenocarcinoma, moderately-differentiated, arising in villous adenoma with high-grade dysplasia

Australia (Sullivan Nicolaides Pathology) - Adenocarcinoma of gallbladder
Brazil (Laboratorio Anatomia Patologica E Citologia) - Adenocarcinoma, invasive, well-differentiated (papillary?, intestinal type?)

Canada (Pasqua Hospital) - Adenocarcinoma, gallbladder

Canada (University Hospital of Sherbrooke) - Well-differentiated infiltrative adenocarcinoma, biliary type

Germany (Institut fur Pathologie UKF) - Invasive adenocarcinoma

Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Adenocarcinoma

Ireland (Kerry General Hospital) - Cholangiocarcinoma

Japan (Kyoto University Hospital) - Adenocarcinoma

Oman (Khoula Hospital) - Adenocarcinoma

Puerto Rico (University of Puerto Rico) - Gallbladder adenocarcinoma

Qatar (Hamad Medical Corporation) - Adenocarcinoma arising in villous adenoma

Saudi Arabia (King Fahad National Guard Hospital) - Invasive adenocarcinoma on top of adenomatous polyp

Saudi Arabia (MCH) - Adenocarcinoma

Singapore (KK Women's & Children's Hospital) - Adenocarcinoma of gallbladder

The Netherlands, Amstelveen - Adenocarcinoma of the gallbladder

United Kingdom (Oxford Study Group) - Gallbladder - Moderately-differentiated adenocarcinoma

**Case 8 - Diagnosis:**

**Adenocarcinoma with papillary features, gallbladder**

**T-57000, M-8260/3**

**Case 8 - References:**


**Case No. 9 - Accession No. 30146**

Baldwin Park (Kaiser Permanente) - Microcystic serous adenoma (2); Microcystic serous cystadenoma (1); Serous cystadenoma (1)

Fontana (Kaiser Permanente) - Microcystic serous cystadenoma

Glendale - Serous cystadenoma

Granada Hills - Mucinous non-neoplastic cysts

Hayward (Hayward-Fremont) - Microcystic adenoma

La Jolla (Scripps Health) - Serous microcystic adenoma

La Jolla (Scripps Clinic Hematopathology Fellowship) - Serous microcystic adenoma

Loma Linda (Loma Linda University Residents) - Serous cystadenoma

Long Beach (VA Long Beach Healthcare System) - Serous microcystic adenoma; Serous cyst adenoma (1)

Monterey (Community Hospital of the Monterey Peninsula) - Serous microcystic adenoma

Monterey Park (Garfield Medical Center) - Solid pseudopapillary tumor

Oakland (Alameda County Medical Center) - Serous microcystic adenoma

Orange (Orange County Medical Group) - Microcystic adenoma

Orange (University of California Irvine) - Microcystic serous cystadenoma

Orange County (Kaiser Permanente) - Serous cystadenoma

Oxnard (St. John's Regional Medical Center) - Microcystic cystadenoma (3); Serous cystadenoma (microcystic adenoma) (1)

Sacramento (U.C. Davis Residents) - Serous microcystic cystadenoma

San Diego (Alvarado Pathology Associates) - Microcystic serous cystadenoma

CTTR, September, 2006 “Minutes” (Subscription A)
<table>
<thead>
<tr>
<th>Location</th>
<th>Diagnosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>San Diego (Naval Medical Center)</td>
<td>Serous microcystic carcinoma</td>
</tr>
<tr>
<td>San Diego (UCSD Medical Center)</td>
<td>Serous microcystic adenoma</td>
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<tr>
<td>San Francisco (San Francisco General Hospital)</td>
<td>Serous microcystic adenoma</td>
</tr>
<tr>
<td>Santa Barbara</td>
<td>Microcystic cystadenoma</td>
</tr>
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<td>Santa Rosa (Santa Rosa Memorial Hospital)</td>
<td>Serous cystadenoma (1); Microcystic cystadenoma (1); Serous microcystic adenoma (1)</td>
</tr>
<tr>
<td>Woodland Hills (Kaiser Permanente Medical Center)</td>
<td>Microcystic cystadenoma</td>
</tr>
<tr>
<td>Woodland Hills (Suda's Soldiers)</td>
<td>Microcystic adenoma (serous adenoma)</td>
</tr>
<tr>
<td>Arkansas (UAMS)</td>
<td>Serous microcystic adenoma, pancreas</td>
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<tr>
<td>Florida (Ameripath)</td>
<td>Serous cystadenoma</td>
</tr>
<tr>
<td>Florida (Baptist Hospital, Pensacola)</td>
<td>Serous microcystic adenoma (1); Microcystic serous adenoma (1); Microcystic adenoma (1)</td>
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<td>Florida (Jackson Memorial Hospital)</td>
<td>Microcystic cystadenoma of the pancreas</td>
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<td>Florida (Tallahassee Pathology Associates)</td>
<td>Microcystic cystadenoma</td>
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<td>Florida (Winter Haven Hospital)</td>
<td>Cystadenoma (2)</td>
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<tr>
<td>Illinois (Lovola University Medical Center)</td>
<td>Microcystic serous adenoma</td>
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<tr>
<td>Illinois (MacNeal Memorial Hospital)</td>
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<td>Indiana (Howard Regional Medical Center)</td>
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</tr>
<tr>
<td>Kansas (Physicians Reference Laboratory)</td>
<td>Serous microcystic adenoma</td>
</tr>
<tr>
<td>Kentucky (University of Louisville)</td>
<td>Serous microcystic adenoma of pancreas</td>
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<td>Louisiana (Louisiana State University Health Science Center)</td>
<td>Microcystic serous cystadenoma</td>
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<td>Louisiana, Slidell</td>
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<td>Maryland (University of Maryland)</td>
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<td>Maryland (Silver Springs)</td>
<td>Serous cystadenoma</td>
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<td>Massachusetts (Berkshire Medical Center)</td>
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<td>Massachusetts (Tufts-New England Medical Center)</td>
<td>Serous microcystic adenoma, pancreas</td>
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<td>Massachusetts, Peabody</td>
<td>Serous cystic tumor, pancreas</td>
</tr>
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<td>Michigan (Oakwood Hospital)</td>
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<td>Michigan (St. Joseph's Mercy Hospital)</td>
<td>Microcystic adenoma</td>
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<td>Minnesota (Fairview Ridges Hospital)</td>
<td>Serous cystadenoma</td>
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<td>Montana, Missoula</td>
<td>Serous microcystic tumor</td>
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<td>Nebraska (Creighton University)</td>
<td>Serous microcystic adenoma</td>
</tr>
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<td>New York (Nassau University Medical Center)</td>
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<td>New York (SUNY Downstate Residents)</td>
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<td>Ohio (McCullough-Hyde Memorial Hospital)</td>
<td>Lymphangioma</td>
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<td>Serous microcystic cystadenoma</td>
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<td>Pennsylvania (Lehigh Valley Hospital)</td>
<td>Microcystic adenoma</td>
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<tr>
<td>Pennsylvania (Mt. Nittany Medical Center)</td>
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<td>Texas (Lackland AFB)</td>
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<td>Australia (Queensland Pathology Group)</td>
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</tbody>
</table>
Case 9 - Diagnosis:
Serous microcystic adenoma, pancreas
T-59000, M-8140/0

Case 9 - References:

Case No. 10 - Accession No. 29954

September, 2006

Baldwin Park (Kaiser Permanente) - Solid-cystic pseudopapillary tumor (3); Solid cystic (pseudopapillary) epithelial neoplasm of pancreas (1)
Fontana (Kaiser Permanente) - Solid and Pseudopapillary tumor
Glendale - Solid-pseudopapillary tumor of pancreas
Granada Hills - Solid-pseudopapillary tumor
Hayward (Hayward-Fremont) - Islet cell tumor (NE Grade I)
La Jolla (Scripps Health) - Solid-pseudopapillary tumor
La Jolla (Scripps Clinic Hematopathology Fellowship) - Solid-pseudopapillary tumor (of pancreas)
Loma Linda (Loma Linda University Residents) - Solid-pseudopapillary tumor
Long Beach (VA Long Beach Healthcare System) - Neuroendocrine carcinoma; Islet cell tumor (1)
Monterey (Community Hospital of the Monterey Peninsula) - Solid pseudopapillary tumor
Monterey Park (Garfield Medical Center) - Solid pseudopapillary tumor
Oakland (Alameda County Medical Center) - Solid pseudopapillary neoplasm
Orange (Orange County Medical Group) - Solid-pseudopapillary tumor
Orange (University of California Irvine) - Solid pseudopapillary tumor
Orange County (Kaiser Permanente) - Solid-cystic pseudopapillary tumor
Oxnard (St. John's Regional Medical Center) - SPPT (Solid pseudopapillary tumor), pancreas (4)
Sacramento (U.C. Davis Residents) - Solid pseudopapillary tumor
San Diego (Alvarado Pathology Associates) - Pancreatic endocrine neoplasm, malignant?
San Diego (Naval Medical Center) - Solid pseudopapillary tumor
San Diego (UCSD Medical Center) - Solid pseudopapillary tumor
San Francisco (San Francisco General Hospital) - Solid pseudopapillary tumor
Santa Barbara - Solid pseudopapillary tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Solid pseudopapillary tumor of pancreas (1); Solid pseudopapillary neoplasm (2), of pancreas (1)
Woodland Hills (Kaiser Permanente Medical Center) - Solid-pseudopapillary tumor
Woodland Hills (Suda's Soldiers) - Solid & papillary tumor (pseudopapillary)
Arkansas (UAMS) - Solid cystic-papillary epithelial neoplasm, pancreas
Florida (Ameripath) - Solid-papillary tumor
Florida (Baptist Hospital, Pensacola) - Acinar cell carcinoma (1); Papillary/solid epithelial neoplasm, PSEN (2)
Florida (Jackson Memorial Hospital) - Solid-pseudopapillary tumor of the pancreas
Florida (Tallahassee Pathology Associates) - Pancreatic endocrine tumor
Florida (Winter Haven Hospital) - Solid pseudopapillary tumor (2)
Illinois (Lovola University Medical Center) - Solid-pseudopapillary tumor
Illinois (MacNeal Memorial Hospital) - Solid pseudopapillary tumor (1); Solid and pseudopapillary tumor (1)
Indiana (Howard Regional Medical Center) - Paraganglioma
Kansas (Physicians Reference Laboratory) - Solid pseudopapillary tumor
Kentucky (University of Louisville) - Solid pseudopapillary tumor
Louisiana (Louisiana State University Health Science Center) - Solid-pseudopapillary tumor
Louisiana, Slidell - Undifferentiated adenocarcinoma (clear cell)
Maryland (Northwest Hospital Center) - Solid pseudopapillary tumor
Maryland (University of Maryland) - Solid pseudopapillary tumor
Maryland (Silver Springs) - Solid-pseudopapillary tumor
Massachusetts (Berkshire Medical Center) - Solid pseudopapillary tumor
Massachusetts (Tufts-New England Medical Center) - Solid pseudopapillary tumor, pancreas
Massachusetts, Peabody - Pseudopapillary tumor, pancreas
Michigan (Oakwood Hospital) - Solid cystic-papillary epithelial neoplasm (2)
Michigan (St. Joseph’s Mercy Hospital) - Solid and pseudocystic papillary neoplasm
Minnesota (Fairview Ridges Hospital) - Solid-pseudopapillary tumor
Montana, Missoula - Solid-cystic-papillary epithelial tumor
Nebraska (Creighton University) - Solid pseudopapillary tumor
New York (Long Island Jewish Medical Center) - Solid pseudopapillary tumor
New York (Nassau University Medical Center) - Solitary cystic papillary epithelial neoplasm, pancreas
New York (State University of New York at Stony Brook) - Solid pseudopapillary epithelial neoplasm
New York (SUNY Downstate Residents) - Solid pseudopapillary tumor of pancreas
North Carolina (Mountain Area Pathology) - Solid pseudopapillary tumor (3)
North Carolina (Pathologist's Medical Laboratory) - Solid pseudopapillary tumor (solid and papillary epithelial neoplasm (2))
Ohio (McCullough-Hyde Memorial Hospital) - Synovial sarcoma
Pennsylvania (Drexel University College of Medicine) - Solid pseudopapillary tumor
Pennsylvania (Lehigh Valley Hospital) - Papillary and solid epithelial neoplasm
Pennsylvania (Mt. Nittany Medical Center) - Solid-pseudopapillary tumor, pancreas
Pennsylvania (Pennsylvania Hospital Residents) - Solid-pseudopapillary neoplasm
Texas (Lackland AFB) - Solid pseudo-papillary tumor
Texas (Methodist Hospital) - Solid pseudopapillary tumor
Texas (Scott & White Memorial Hospital) - Solid-pseudopapillary neoplasm
Texas, Lubbock - Solid pseudopapillary tumor
West Virginia (Greenbrier Valley Medical Center) - Solid pseudopapillary tumor
West Virginia (Wetzel County Hospital) - Solid and cystic papillary epithelial neoplasm
Wisconsin (Meriter Pathology) - Solid pseudopapillary tumor
Australia (Queensland Pathology Group) - Solid cystic pseudopapillary tumor
Australia (Royal Hobart Hospital) - Solid pseudopapillary tumor of pancreas

CTTR, September, 2006 “Minutes” (Subscription A)
Case 10 - Diagnosis:
Solid pseudopapillary neoplasm, pancreas
T-59000, M-80001

Case 10 - References:


