

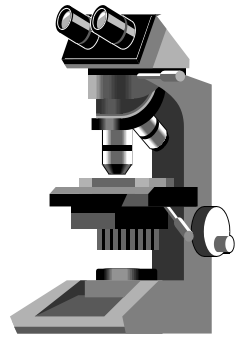


CALIFORNIA  
TUMOR TISSUE REGISTRY

## *GASTROINTESTINAL TRACT PATHOLOGY*

Minutes – Subscription A

January, 2003



### **SUGGESTED READING (General Topics from Recent Literature):**

- Evaluation and Management of the “New” Lymphoma Entities. Mantle Cell Lymphoma, Lymphoma of Mucosa Associated Lymphoid Tissue, Anaplastic Large-Cell Lymphoma, and Primary Mediastinal B-Cell Lymphoma. Porcu P and Nichols CR. *Curr Probl Cancer* 1998; 22(5):283-368.
- Small Intestinal Stromal Tumors. A Clinicopathologic Study of 20 Cases with Immunohistochemical Assessment of Cell Differentiation and Prognostic Role of Proliferation Antigens. Ma CK, De Peralta MN, Amin MB, et al. *Am J Clin Pathol* 1997; 108(6):641-651.
- Proliferating Cell Nuclear Antigen as a Marker of Cell Kinetics in Aberrant Crypt Foci, Hyperplastic Polyps, Adenomas, and Adenocarcinomas of the Human Colon. Shpitz D, Bornstein Y, Mekori Y, et al. *Am J Surg* 1997; 17(4):425-430.
- Use of Robotic Telepathology for Frozen-Section Diagnosis. A Retrospective Trial of a Telepathology System for Intraoperative Consultation. Kaplan KJ, Burgess JR, et al. *Mod Pathol* 2002; 15:1197-1204.
- Low-Grade Tubular-Mucinous Renal Neoplasm. Morphologic, Immunohistochemical, and Genetic Features. Rakozzy C, Schmahl GE, et al. *Mod Pathol* 2002; 15:1162-1171.
- The World Health Organization (WHO) Classification of the Myeloid Neoplasms. Vardiman JW, Harris NL, and Brunning RD. *Blood* 2002; 100(7):2292-2302.

California Tumor Tissue Registry  
c/o: Department of Pathology and Human Anatomy  
Loma Linda University School of Medicine  
11021 Campus Avenue, AH 335  
Loma Linda, California 92350  
(909) 558-4788  
FAX: (909) 558-0188  
E-mail: [cttr@linkline.com](mailto:cttr@linkline.com)  
Web site & Case of the Month: [www.cttr.org](http://www.cttr.org)

## **FILE DIAGNOSES**

**CTTR Subscription A**

**January 2003**

**Case 1:**

Basaloid squamous (cloacogenic) carcinoma, ano-rectal region  
T-68000, M-81233

**Case 2:**

Carcinoid tumor, ileum  
T-Y4400, M-82401

**Case 3:**

Diffuse large cell lymphoma, ileum  
T-65200, M-95903

**Case 4:**

Inflammatory pseudotumor (xanthogranulomatous cholecystitis), gallbladder  
T-57000, M-43000

**Case 5:**

Mesenteric fibromatosis (intra-abdominal desmoid tumor)  
T-Y4300, M-76100

**Case 6:**

Serous microcystic adenoma (cystadenoma), pancreas  
T-59000, M-84410

**Case 7:**

Poorly differentiated mucinous adenocarcinoma with signet ring features, sigmoid colon  
T-67000, M-84803

**Case 8:**

Melanoma, small bowel  
T-64000, M-87203

**Case 9:**

Gangliocytic paraganglioma, duodenum  
T-64300, M-86801

**Case 10:**

Gastrointestinal stromal tumor (CD117 positive), small bowel mesentery  
T-50500, M-88903

Bakersfield - Cloacogenic carcinoma  
Baldwin Park (Kaiser Permanente) - Squamous carcinoma transition zone (1); Basaloid carcinoma (1); Basaloid squamous cell carcinoma (1)  
Bay Area - Squamous cell carcinoma with basaloid features (3); Cloacogenic carcinoma (1)  
Daly City (Seton Medical Center) - Cloacogenic basalosquamous carcinoma  
Fontana (Kaiser Permanente) - Anal canal squamous cell carcinoma  
Hayward/Fremont - Basaloid carcinoma  
Laguna Beach (South Coast Medical Center) - SCCA (cloacogenic/basaloid)  
Long Beach - Squamous cell carcinoma (basaloid) (9)  
Monterey (Community Hospital of Monterey Peninsula) - Basaloid carcinoma  
Mountain View (El Camino Pathology Group) - Squamous cell carcinoma, basaloid type  
Oakland (Kaiser Permanente) - Basaloid squamous cell carcinoma (4)  
Orange (Orange County Pathology Medical Group) - Basaloid squamous carcinoma  
Orange (UCI Medical Center Residents) - Basaloid carcinoma  
Sacramento (UC Davis Medical Center) - Squamous cell carcinoma, basaloid pattern  
San Diego (Naval Medical Center) - Cloacogenic carcinoma  
Santa Barbara (Cottage Hospital) - Squamous cell carcinoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Squamous cell carcinoma (3)  
Ventura - Cloacogenic carcinoma (2)  
Alaska (Alaska Native Medical Center) - Squamous cell carcinoma (basaloid/cloacogenic)  
Arizona (Phoenix Memorial Hospital) - Basaloid (cloacogenic) carcinoma  
Florida (Baptist Hospital) - Cloacogenic “basaloid” carcinoma (1); Cloacogenic carcinoma (SCC) (1); Poorly differentiated SCC (“cloacogenic”) (1); Basaloid carcinoma (1); SCC (“cloacogenic”) (1)  
Florida (Munroe Regional Medical Center) - Basaloid carcinoma  
Florida (Pathology Associates) - Poorly differentiated squamous carcinoma with basaloid features  
Florida (Winter Haven Hospital) - Cloacogenic carcinoma  
Indiana (Fort Wayne) - Basosquamous (cloacogenic) anal duct carcinoma, rectum  
Louisiana (Louisiana State University Medical Center) - Basaloid (cloacogenic) squamous cell carcinoma  
Maryland (Johns Hopkins Hospital Residents) - Squamous cell carcinoma with basaloid growth pattern (1); Basaloid/cloacogenic carcinoma (1)  
Maryland (National Naval Medical Center) - Squamous cell carcinoma, basaloid type (8)  
Maryland (NIH Pathology Residents) - Basaloid squamous carcinoma  
Maryland (University of Maryland Residents) - Cloacogenic carcinoma  
Massachusetts (Brigham & Women’s Hospital) - Invasive basaloid (cloacogenic) squamous cell carcinoma  
Massachusetts (New England Medical Center Residents) - Squamous cell carcinoma  
Michigan (Oakwood Hospital) - Basaloid squamous cell carcinoma  
Michigan (St. Joseph Mercy Hospital) - Basosquamous (cloacogenic) carcinoma  
Minnesota (United Hospital) - Basaloid carcinoma (cloacogenic carcinoma)  
Mississippi (University of MS Medical Center) - Squamous cell carcinoma, poorly differentiated  
Nebraska (Creighton University School of Medicine Residents) - Squamous cell carcinoma  
New Jersey (Overlook Hospital) - Invasive squamous cell carcinoma of anus (4)  
New York (Long Island Jewish Medical Center) - Basaloid carcinoma (high grade)  
New York (Nassau University Medical Center) - Cloacogenic carcinoma, rectum  
New York (New York Medical College) - Cloacogenic (basaloid) carcinoma of ano-rectum  
New York (Stony Brook University Hospital Residents) - Basaloid carcinoma  
New York (Westchester Medical Center) - Cloacogenic (basaloid) carcinoma of ano-rectum  
North Carolina (Mountain Area Pathology) - Keratinizing squamous anal canal carcinoma (1); Squamous cell carcinoma (1); Invasive keratinizing squamous cell carcinoma (1); Squamous cell carcinoma, keratinizing (anal canal tumor) (1)  
Oklahoma (Tulsa) - Squamous cell carcinoma with basaloid features  
Oklahoma (University of Oklahoma Residents) - Basaloid (cloacogenic) squamous cell carcinoma  
Pennsylvania (Allegheny General Hospital) - Basaloid squamous cell carcinoma  
Pennsylvania (Centre Community Hospital) - Basaloid carcinoma of anal transition zone

Pennsylvania (Memorial Medical Center) - Squamous cell carcinoma  
Puerto Rico (University of Puerto Rico) - Squamous cell carcinoma, basaloid type  
Rhode Island (Rhode Island Hospital Pathology Residents) - Squamous cell carcinoma with basaloid features  
Texas (ProPath Services) - Basaloid carcinoma of anus (2)  
Texas (Scott & White Memorial Hospital) - Basaloid squamous cell carcinoma (cloacogenic carcinoma)  
West Virginia (Greenbrier Valley Medical Center) - Squamous cell carcinoma, basaloid variant  
Wisconsin (Meriter Health Services) - Anal squamous cell carcinoma  
Australia (Royal Prince Alfred Hospital) - Basaloid squamous cell carcinoma  
Canada (Foothills Medical Center) - Basaloid squamous carcinoma of anus (cloacogenic carcinoma)  
Hong Kong (Hong Kong Baptist Hospital) - Squamous cell carcinoma of anal canal, basaloid type  
Japan (University of Yamanashi School of Medicine) - Squamous cell carcinoma (2); Basaloid carcinoma (1)  
Qatar (Hamad Medical Corporation) - Basaloid carcinoma (cloacogenic)

#### **Case 1 - Diagnosis:**

Basaloid squamous (cloacogenic) carcinoma, ano-rectal region  
 T-68000, M-81233

#### **Case 1 – References:**

Fenger C. Anal Neoplasia and Its Precursors. Facts and Controversies. *Semin Diagn Pathol* 1991; 8(3):190-201.  
 Frisch M, Fenger C, van den Brule AJ, et al. Variants of Squamous Cell Carcinoma of the Anal Canal and Perianal Skin and their Relation to Human Papillomaviruses. *Cancer Res* 1999; 59(3):753-757.  
 Zamecnik M, Skalova A, Pelikan K, et al. Basaloid Squamous Carcinoma with Collagenous Spherules and Crystalloids. *Ann Diagn Pathol* 2001, 5(4):233-239.  
 Gilcrease MZ and Guzman-Paz M. Fine-Needle Aspiration of Basaloid Squamous Carcinoma. A Case Report with Review of Differential Diagnostic Considerations. *Diagn Cytopathol* 1998; 19(3):210-215.  
 Kim JH, Sarani B, Orkin BA, et al. HIV-Positive Patients with Anal Carcinoma Have Poorer Treatment Tolerance and Outcome than HIV-Negative Patients. *Dis Colon Rectum* 2001; 44(10):1496-1502.

#### **Case No. 2, Accession No. 29606**

**January 2003**

Bakersfield - Carcinoid tumor  
Baldwin Park (Kaiser Permanente) - Carcinoid tumor (2); Neuroendocrine carcinoma (1)  
Bay Area - Carcinoid, aggressive (4)  
Daly City (Seton Medical Center) - Carcinoid  
Fontana (Kaiser Permanente) - Carcinoid  
Hayward/Fremont - Carcinoid  
Laguna Beach (South Coast Medical Center) - Carcinoid tumor  
Long Beach - Low grade neuroendocrine carcinoma (carcinoid) (9)  
Monterey (Community Hospital of Monterey Peninsula) - Carcinoid vs. atypical carcinoid  
Mountain View (El Camino Pathology Group) - Carcinoid tumor  
Oakland (Kaiser Permanente) - Carcinoid tumor (4)  
Orange (Orange County Pathology Medical Group) - Carcinoid  
Orange (UCI Medical Center Residents) - Carcinoid  
Sacramento (UC Davis Medical Center) - Carcinoid tumor  
San Diego (Naval Medical Center) - Carcinoid  
Santa Barbara (Cottage Hospital) - Carcinoid tumor  
Santa Rosa (Santa Rosa Memorial Hospital) - Carcinoid tumor (3)  
Ventura - Carcinoid tumor (2)  
Alaska (Alaska Native Medical Center) - Malignant carcinoid tumor  
Arizona (Phoenix Memorial Hospital) - Carcinoid tumor  
Florida (Baptist Hospital) - Atypical carcinoid tumor (1); Carcinoid (probably malignant) (1); Carcinoid tumor (3)  
Florida (Munroe Regional Medical Center) - Carcinoid tumor  
Florida (Pathology Associates) - Carcinoid tumor

Florida (Winter Haven Hospital) - Carcinoid  
Indiana (Fort Wayne) - Carcinoid neoplasm, terminal ileum  
Louisiana (Louisiana State University Medical Center) - Carcinoid  
Maryland (Johns Hopkins Hospital Residents) - Carcinoid tumor (2)  
Maryland (National Naval Medical Center) - Carcinoid (8)  
Maryland (NIH Pathology Residents) - Neuroendocrine tumor  
Maryland (University of Maryland Residents) - Carcinoid  
Massachusetts (Brigham & Women's Hospital) - Carcinoid  
Massachusetts (New England Medical Center Residents) - Neuroendocrine tumor (carcinoid) with malignant features  
Michigan (Oakwood Hospital) - Carcinoid  
Michigan (St. Joseph Mercy Hospital) - Carcinoid  
Minnesota (United Hospital) - Carcinoid tumor  
Mississippi (University of MS Medical Center) - Carcinoid tumor  
Nebraska (Creighton University School of Medicine Residents) - Carcinoid tumor  
New Jersey (Overlook Hospital) - Carcinoid tumor, colon (4)  
New York (Long Island Jewish Medical Center) - Typical carcinoid  
New York (Nassau University Medical Center) - Carcinoid tumor, terminal ileum  
New York (New York Medical College) - Carcinoid tumor  
New York (Stony Brook University Hospital Residents) - Carcinoid tumor, classic  
New York (Westchester Medical Center) - Carcinoid tumor  
North Carolina (Mountain Area Pathology) - Carcinoid tumor (4)  
Oklahoma (Tulsa) - Carcinoid tumor (2)  
Oklahoma (University of Oklahoma Residents) - Carcinoid tumor  
Pennsylvania (Allegheny General Hospital) - Carcinoid tumor of GI  
Pennsylvania (Centre Community Hospital) - Carcinoid tumor of small bowel  
Pennsylvania (Memorial Medical Center) - Carcinoid tumor  
Puerto Rico (University of Puerto Rico) - Carcinoid tumor  
Rhode Island (Rhode Island Hospital Pathology Residents) - Carcinoid tumor  
Texas (ProPath Services) - Carcinoid tumor (2)  
Texas (Scott & White Memorial Hospital) - Carcinoid (2)  
West Virginia (Greenbrier Valley Medical Center) - Carcinoid tumor  
Wisconsin (Meriter Health Services) - Carcinoid  
Australia (Royal Prince Alfred Hospital) - Carcinoid tumor  
Canada (Foothills Medical Center) - Carcinoid tumor  
Hong Kong (Hong Kong Baptist Hospital) - Carcinoid tumor  
Japan (University of Yamanashi School of Medicine) - Carcinoid (2); Neuroendocrine cell carcinoma (1)  
Qatar (Hamad Medical Corporation) - Carcinoid tumor

## **Case 2 - Diagnosis:**

Carcinoid tumor, ileum  
 T-Y4400, M-82401

## **Case 2 - References:**

Hellman P, Lundstrom T, Ohrvall U and Eriksson B. Effect of Surgery on the Outcome of Midgut Carcinoid Disease with Lymph Node and Liver Metastases. *World J Surg* 2002; 26(8):991-997.  
 Danikas D, Sachs R, Dressner RM, et al. Testicular Metastasis from Ileal Carcinoid. Report of Case. *Dis Colon Rec* 2001; 44(9):1365-1366.  
 Cunningham JD, Aleali R, Aleali M, et al. Malignant Small Bowel Neoplasms. Histopathologic Determinants of Recurrence and Survival. *Ann Surg* 1997; 225(3):300-306.  
 Modlin IM and Sandor A. An Analysis of 8305 Cases of Carcinoid Tumors. *Cancer* 1997; 79(4):813-829.  
 Portel-Gomes GM, Grimelius L, Johansson H, et al. Chromogranin A in Human Neuroendocrine Tumors. An Immunohistochemical Study with Region-Specific Antibodies. *Am J Surg Pathol* 2001; 25(10):1261-1267.

Bakersfield - Large cell lymphoma  
Baldwin Park (Kaiser Permanente) - Diffuse large cell lymphoma (3)  
Bay Area - Lymphoma (“maltoma”) (4)  
Daly City (Seton Medical Center) - Large cell lymphoma, ? anaplastic lymphoma  
Fontana (Kaiser Permanente) - Large cell lymphoma  
Hayward/Fremont - High grade lymphoma (pleomorphic B cell?)  
Laguna Beach (South Coast Medical Center) - High grade lymphoma  
Long Beach - Large cell lymphoma (9)  
Monterey (Community Hospital of Monterey Peninsula) - Lymphoma, diffuse large cell  
Mountain View (El Camino Pathology Group) - Malignant lymphoma, large cell type  
Oakland (Kaiser Permanente) - Large cell lymphoma (4)  
Orange (Orange County Pathology Medical Group) - Non-Hodgkin’s lymphoma, large cell  
Orange (UCI Medical Center Residents) - Lymphoma (favor diffuse large cell)  
Sacramento (UC Davis Medical Center) - Lymphoma, high grade  
San Diego (Naval Medical Center) - Non-Hodgkin’s lymphoma  
Santa Barbara (Cottage Hospital) - Malignant lymphoma, large cell  
Santa Rosa (Santa Rosa Memorial Hospital) - Non-Hodgkin’s lymphoma, large cell type (1); Large cell malignant lymphoma (1);  
Malignant lymphoma, diffuse large cell type (1)  
Ventura - Large cell lymphoma (2)  
Alaska (Alaska Native Medical Center) - Multiple lymphomatous polyposis (Mantle cell lymphoma); (2) Diffuse large cell  
lymphoma  
Arizona (Phoenix Memorial Hospital) - Large cell immunoblastic lymphoma  
Florida (Baptist Hospital) - Anaplastic lymphoma (1); Malignant lymphoma, diffuse large cell (4)  
Florida (Munroe Regional Medical Center) - Large cell lymphoma  
Florida (Pathology Associates) - Diffuse large cell lymphoma  
Florida (Winter Haven Hospital) - Small cleaved cell lymphoma  
Indiana (Fort Wayne) - Lymphoma of small bowel  
Louisiana (Louisiana State University Medical Center) - Large cell lymphoma  
Maryland (Johns Hopkins Hospital Residents) - Large cell lymphoma (1); Large cell lymphoma vs. myeloid sarcoma(1)  
Maryland (National Naval Medical Center) - Malignant lymphoma (8)  
Maryland (NIH Pathology Residents) - Lymphoma, favor diffuse large B-cell lymphoma  
Maryland (University of Maryland Residents) - B-cell lymphoma  
Massachusetts (Brigham & Women’s Hospital) - Large cell lymphoma, likely diffuse large B-cell lymphoma  
Massachusetts (New England Medical Center Residents) - Lymphoma, diffuse large B-cell type  
Michigan (Oakwood Hospital) - Non-Hodgkin’s lymphoma, large cell  
Michigan (St. Joseph Mercy Hospital) - Large cell lymphoma  
Minnesota (United Hospital) - Monocytic/granulocytic sarcoma  
Mississippi (University of MS Medical Center) - Large cell lymphoma  
Nebraska (Creighton University School of Medicine Residents) - Lymphoma (diffuse B-cell)  
New Jersey (Overlook Hospital) - Diffuse large cell lymphoma, small bowel (4)  
New York (Long Island Jewish Medical Center) - Diffuse large cell lymphoma  
New York (Nassau University Medical Center) - Diffuse large cell lymphoma, small bowel  
New York (New York Medical College) - Diffuse large B-cell lymphoma, small bowel  
New York (Stony Brook University Hospital Residents) - Malignant lymphoma, primary, most likely diffuse large B-cell  
New York (Westchester Medical Center) - Diffuse large B-cell lymphoma, small bowel  
North Carolina (Mountain Area Pathology) - Large cell lymphoma (4)  
Oklahoma (Tulsa) - Malignant lymphoma, large cell type  
Oklahoma (University of Oklahoma Residents) - Diffuse large cell lymphoma  
Pennsylvania (Allegheny General Hospital) - Large B-cell lymphoma  
Pennsylvania (Centre Community Hospital) - Malignant lymphoma, favor enteropathy-type T-cell lymphoma  
Pennsylvania (Memorial Medical Center) - Large cell lymphoma (maltoma)

Puerto Rico (University of Puerto Rico) - Diffuse large cell lymphoma  
Rhode Island (Rhode Island Hospital Pathology Residents) - Lymphoma, diffuse large cell with signet ring feature  
Texas (ProPath Services) - Malignant lymphoma, large cell type (2)  
Texas (Scott & White Memorial Hospital) - Large cell lymphoma  
West Virginia (Greenbrier Valley Medical Center) - Lymphoma, large cell  
Wisconsin (Meriter Health Services) - Large cell lymphoma  
Australia (Royal Prince Alfred Hospital) - Diffuse large B-cell lymphoma  
Canada (Foothills Medical Center) - Malignant lymphoma, diffuse large B-cell  
Hong Kong (Hong Kong Baptist Hospital) - Malignant lymphoma  
Japan (University of Yamanashi School of Medicine) - Non-Hodgkin's lymphoma, diffuse (3)  
Qatar (Hamad Medical Corporation) - Large B-cell lymphoma

### **Case 3 - Diagnosis:**

Diffuse large cell lymphoma, ileum  
 T-65200, M-95903

### **Case 3 - References:**

Shipp MA, Ross KN, Tamayo P, et al. Diffuse Large B-Cell Lymphoma Outcome Prediction by Gene-Expression Profiling and Supervised Machine Learning. *Nat Med* 2002;8(1):68-74.  
 Sakai A, Thieblemont C, Wellmann A, et al. PTEN Gene Alterations in Lymphoid Neoplasms. *Blood* 1998; 92(9):3410-3415.  
 Isaacson PG. Gastrointestinal Lymphomas of T- and B- Cell Types. *Mod Pathol* 1999; 12(2):151-158.  
 Sugimoto M, Kajimura M, Sato Y, et al. Regression of Primary Gastric Diffuse Large B-Cell Lymphoma After Eradication of Helicobacter Pylori. *Gastrointest Endosc* 2001; 54(5):643-45.  
 Ree HJ, Yang WI, Kim CW, et al. Coexpression of Bcl-6 and CD10 in Diffuse Large B-Cell Lymphomas. Significance of Bcl-6 Expression Patterns in Identifying Germinal Center B-Cell Lymphoma. *Hum Pathol* 2001; 32(9):954-962.

## **Case No. 4, Accession No. 29700**

**January 2003**

Bakersfield - Xanthogranulomatous cholecystitis  
Baldwin Park (Kaiser Permanente) - Xanthogranulomatous cholecystitis (2); Malakoplakia (1)  
Bay Area - Xanthogranulomatous cholecystitis (3); Polypoid inflammatory pseudotumor (1)  
Daly City (Seton Medical Center) - Xanthogranulomatous cholecystitis  
Fontana (Kaiser Permanente) - Xanthogranulomatous cholecystitis  
Hayward/Fremont - Inflammatory pseudotumor (inflammatory myofibroblastoma)  
Laguna Beach (South Coast Medical Center) - Xanthogranulomatous inflammation  
Long Beach - Xanthogranulomatous cholecystitis (9)  
Monterey (Community Hospital of Monterey Peninsula) - Pseudotumor  
Mountain View (El Camino Pathology Group) - Xanthogranulomatous cholecystitis  
Oakland (Kaiser Permanente) - Xanthogranulomatous cholecystitis (4)  
Orange (Orange County Pathology Medical Group) - Xanthogranulomatous cholecystitis  
Orange (UCI Medical Center Residents) - Adenomyoma, xanthogranulomatous cholecystitis  
Sacramento (UC Davis Medical Center) - Xanthogranulomatous cholecystitis  
San Diego (Naval Medical Center) - Xanthogranulomatous cholecystitis  
Santa Barbara (Cottage Hospital) - Xanthogranulomatous cholecystitis  
Santa Rosa (Santa Rosa Memorial Hospital) - Xanthogranulomatous cholecystitis (3)  
Ventura - Inflammatory pseudotumor (2)  
Alaska (Alaska Native Medical Center) - Xanthogranulomatous cholecystitis  
Arizona (Phoenix Memorial Hospital) - Xanthomatous cholecystitis  
Florida (Baptist Hospital) - Xanthogranulomatous cholecystitis (5)  
Florida (Munroe Regional Medical Center) - Xanthogranulomatous cholecystitis  
Florida (Pathology Associates) - Inflammatory pseudotumor, xanthogranulomatous cholecystitis  
Florida (Winter Haven Hospital) - Xanthogranulomatous cholecystitis  
Indiana (Fort Wayne) - Xanthogranulomatous cholecystitis, gallbladder

Louisiana (Louisiana State University Medical Center) - Xanthogranulomatous cholecystitis  
Maryland (Johns Hopkins Hospital Residents) - Xanthogranulomatous cholecystitis (1); Inflammatory myofibroblastic tumor vs. xanthogranulomatous cholecystitis (1)  
Maryland (National Naval Medical Center) - Xanthogranulomatous cholecystitis (8)  
Maryland (NIH Pathology Residents) - Chronic cholecystitis with amyloidosis  
Maryland (University of Maryland Residents) - Inflammatory myofibroblastic tumor, inflammatory pseudotumor  
Massachusetts (Brigham & Women's Hospital) - Xanthogranulomatous cholecystitis  
Massachusetts (New England Medical Center Residents) - Xanthogranulomatous cholecystitis  
Michigan (Oakwood Hospital) - Xanthogranulomatous cholecystitis, rule out malakoplakia  
Michigan (St. Joseph Mercy Hospital) - Malakoplakia vs. xanthogranulomatous cholecystitis  
Minnesota (United Hospital) - Nodular fasciitis  
Mississippi (University of MS Medical Center) - Xanthogranulomatous cholecystitis  
Nebraska (Creighton University School of Medicine Residents) - Inflammatory pseudotumor, rule out malakoplakia  
New Jersey (Overlook Hospital) - Xanthogranulomatous cholecystitis (4)  
New York (Long Island Jewish Medical Center) - Xanthogranulomatous cholecystitis  
New York (Nassau University Medical Center) - Xanthogranulomatous cholecystitis, gallbladder  
New York (New York Medical College) - Xanthogranulomatous cholecystitis  
New York (Stony Brook University Hospital Residents) - Xanthogranulomatous cholecystitis  
New York (Westchester Medical Center) - Xanthogranulomatous cholecystitis  
North Carolina (Mountain Area Pathology) - Xanthogranulomatous cholecystitis (3); Malakoplakia (1)  
Oklahoma (Tulsa) - Xanthogranulomatous cholecystitis  
Oklahoma (University of Oklahoma Residents) - Xanthogranulomatous cholecystitis  
Pennsylvania (Allegheny General Hospital) - Xanthogranulomatous cholecystitis  
Pennsylvania (Centre Community Hospital) - Xanthogranulomatous cholecystitis of gallbladder  
Pennsylvania (Memorial Medical Center) - Xanthogranulomatous cholecystitis  
Puerto Rico (University of Puerto Rico) - Xanthogranulomatous cholecystitis  
Rhode Island (Rhode Island Hospital Pathology Residents) - Xanthogranulomatous cholecystitis  
Texas (ProPath Services) - Inflammatory pseudotumor (1); Myofibroblastic proliferative (inflammatory pseudotumor) (1)  
Texas (Scott & White Memorial Hospital) - Inflammatory pseudotumor  
West Virginia (Greenbrier Valley Medical Center) - Inflammatory pseudotumor  
Wisconsin (Meriter Health Services) - Xanthogranulomatous cholecystitis  
Australia (Royal Prince Alfred Hospital) - Xanthogranulomatous cholecystitis (3); Inflammatory myofibroblastic tumor (3)  
Canada (Foothills Medical Center) - Xanthogranulomatous cholecystitis  
Hong Kong (Hong Kong Baptist Hospital) - Xanthogranulomatous cholecystitis  
Japan (University of Yamanashi School of Medicine) - Xanthogranulomatous cholecystitis (3)  
Qatar (Hamad Medical Corporation) - Xanthogranulomatous cholecystitis

#### **Case 4 - Diagnosis:**

Inflammatory pseudotumor (xanthogranulomatous cholecystitis), gallbladder  
 T-57000, M-43000

#### **Case 4 - References:**

Ikeda H, Oka T, Imafuku I, et al. A Case of Inflammatory Pseudotumor of the Gallbladder and Bile Duct. *Am J Gastroenterol* 1990; 85(2):203-206.  
 Krishnani N, Shukla S, Jain M, et al. Fine Needle Aspiration Cytology in Xanthogranulomatous Cholecystitis, Gallbladder Adenocarcinoma and Coexistent Lesions. *Acta Cytol* 2000; 44(4):508-514.  
 Shukla S, Krishnani N, Jain M, et al. Xanthogranulomatous Cholecystitis. Fine Needle Aspiration Cytology in 17 Cases. *Acta Cytol* 1997; 41(2):413-418.



Bakersfield - Mesenteric fibromatosis  
Baldwin Park (Kaiser Permanente) - Fibromatosis (desmoid) (1); Desmoid tumor (2)  
Bay Area - Fibromatosis, desmoid (2); Inflammatory pseudotumor (1)  
Daly City (Seton Medical Center) - Fibromatosis  
Fontana (Kaiser Permanente) - Idiopathic retroperitoneal fibrosis  
Hayward/Fremont - Sclerosing mesenteritis  
Laguna Beach (South Coast Medical Center) - Idiopathic retractile, sclerosing mesenteritis  
Long Beach - Mesenteric fibromatosis, desmoid (9)  
Monterey (Community Hospital of Monterey Peninsula) - Desmoid vs. fibromatosis  
Mountain View (El Camino Pathology Group) - Fibromatosis, desmoid tumor  
Oakland (Kaiser Permanente) - Fibromatosis (4)  
Orange (Orange County Pathology Medical Group) - Mesenteric fibromatosis  
Orange (UCI Medical Center Residents) - Retroperitoneal fibromatosis  
Sacramento (UC Davis Medical Center) - Fibromatosis or sclerosing mesenteritis  
San Diego (Naval Medical Center) - Mesenteric fibromatosis  
Santa Barbara (Cottage Hospital) - Intra-abdominal desmoid tumor  
Santa Rosa (Santa Rosa Memorial Hospital) - Desmoid (1); Sclerosing mesenteritis (1); Mesenteric fibromatosis (intra-abdominal fibromatosis/intra-abdominal desmoid) (1)  
Ventura - Mesenteric fibromatosis (2)  
Alaska (Alaska Native Medical Center) - Intra-abdominal fibromatosis (desmoid)  
Arizona (Phoenix Memorial Hospital) - Sclerosing mesenteritis  
Florida (Baptist Hospital) - Mesenteric fibromatosis (1); Mesenteric intra-abdominal desmoid (1); Intra-abdominal desmoid (1); Desmoid (2)  
Florida (Munroe Regional Medical Center) - Desmoid tumor  
Florida (Pathology Associates) - Desmoid  
Florida (Winter Haven Hospital) - Desmoid tumor  
Indiana (Fort Wayne) - Abdominal desmoid, small bowel  
Louisiana (Louisiana State University Medical Center) - Fibromatosis  
Maryland (Johns Hopkins Hospital Residents) - Sclerosing mesenteritis (1); Mesenteric fibromatosis (1)  
Maryland (National Naval Medical Center) - Desmoid tumor (7); Sclerosing mesenteritis (1)  
Maryland (NIH Pathology Residents) - Desmoid tumor  
Maryland (University of Maryland Residents) - Desmoid tumor  
Massachusetts (Brigham & Women's Hospital) - Mesenteric desmoid fibromatosis  
Massachusetts (New England Medical Center Residents) - Fibromatosis  
Michigan (Oakwood Hospital) - Fibromatosis  
Michigan (St. Joseph Mercy Hospital) - Fibromatosis (desmoid)  
Minnesota (United Hospital) - Abdominal fibromatosis  
Mississippi (University of MS Medical Center) - Desmoid tumor  
Nebraska (Creighton University School of Medicine Residents) - Leiomyoma  
New Jersey (Overlook Hospital) - Fibromatosis (4)  
New York (Long Island Jewish Medical Center) - Mesentery fibromatosis; Diff dx: Sclerosing mesenteritis; GIST  
New York (Nassau University Medical Center) - Intra-abdominal desmoid tumor  
New York (New York Medical College) - Mesenteric fibromatosis  
New York (Stony Brook University Hospital Residents) - Desmoid fibromatosis  
New York (Westchester Medical Center) - Mesenteric fibromatosis  
North Carolina (Mountain Area Pathology) - Mesenteric fibromatosis (4)  
Oklahoma (Tulsa) - Mesenteric fibromatosis  
Oklahoma (University of Oklahoma Residents) - Fibromatosis  
Pennsylvania (Allegheny General Hospital) - Abdominal fibromatosis "desmoid tumor"  
Pennsylvania (Centre Community Hospital) - Mesenteric fibromatosis

Pennsylvania (Memorial Medical Center) - Desmoid tumor  
Puerto Rico (University of Puerto Rico) - Intra-abdominal fibromatosis  
Rhode Island (Rhode Island Hospital Pathology Residents) - Mesenteric fibromatosis  
Texas (ProPath Services) - Desmoid tumor (2)  
Texas (Scott & White Memorial Hospital) - Extra-abdominal desmoid  
West Virginia (Greenbrier Valley Medical Center) - Stromal tumor, malignant  
Wisconsin (Meriter Health Services) - Desmoid tumor  
Australia (Royal Prince Alfred Hospital) - Desmoid (abdominal fibromatosis)  
Canada (Foothills Medical Center) - Fibromatosis  
Hong Kong (Hong Kong Baptist Hospital) - Atypical lipoma  
Japan (University of Yamanashi School of Medicine) - Sclerosing mesenteritis (1); Intra-abdominal desmoid (2)  
Qatar (Hamad Medical Corporation) - Mesenteric fibromatosis

#### **Case 5 - Diagnosis:**

Mesenteric fibromatosis (intra-abdominal desmoid tumor)  
 T-Y4300, M-76100

#### **Case 5 - References:**

Burke AP, Sobin LH and Shekitka KM. Mesenteric Fibromatosis. A Follow-Up Study. *Arch Pathol Lab Med* 1990; 114(8):832-835.  
 Remmele W, Muller-Lobeck H and Paulus W. Primary Mesenteritis, Mesenteric Fibrosis, and Mesenteric Fibromatosis. Report of Four Cases, Pathology, and Classification. *Pathol Res Pract* 1988; 184(1):77-85.  
 Yantiss RK, Spiro IJ, Compton CC, et al. Gastrointestinal Stromal Tumor Versus Intra-Abdominal Fibromatosis of the Bowel Wall. A Clinically Important Differential Diagnosis. *Am J Surg Pathol* 2000; 24(7):947-957.  
 Soravia C, Berk T, McLeod RS, et al. Desmoid Disease in Patients with Familial Adenomatous Polyposis. *Dis Colon Rectum* 2000; 43(3):363-369.  
 Badmanaban B, Aye WM, Rayis A, et al. Mesenteric Fibromatosis in Gardners Syndrome. *Ir Med J* 1997; 90(7):276.

#### **Case No. 6, Accession No. 23497**

**January 2003**

Bakersfield - Serous microcystic adenoma  
Baldwin Park (Kaiser Permanente) - Serous microcystic tumor, pancreas (3)  
Bay Area - Serous microcystic adenoma (4)  
Daly City (Seton Medical Center) - Serous cystadenoma  
Fontana (Kaiser Permanente) - Serous microcystic adenoma  
Hayward/Fremont - Serous microcystic adenoma  
Laguna Beach (South Coast Medical Center) - Serous cystadenoma (glycogen-rich adenoma)  
Long Beach - Microcystic adenoma of pancreas (9)  
Monterey (Community Hospital of Monterey Peninsula) - Serous microcystic adenoma  
Mountain View (El Camino Pathology Group) - Microcystic adenoma, clear cell type  
Oakland (Kaiser Permanente) - Serous microcystic adenoma (4)  
Orange (Orange County Pathology Medical Group) - Microcystic serous cystadenoma  
Orange (UCI Medical Center Residents) - Microcystic adenoma  
Sacramento (UC Davis Medical Center) - Serous cystadenoma  
San Diego (Naval Medical Center) - Serous microcystic adenoma  
Santa Barbara (Cottage Hospital) - Microcystic adenoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Microcystic cystadenoma (1); Pancreatic cystadenoma (1); Serous microcystic adenoma (1)  
Ventura - Serous microcystic adenoma (2)  
Alaska (Alaska Native Medical Center) - Serous microcystic adenoma  
Arizona (Phoenix Memorial Hospital) - Serous cystadenoma, pancreas  
Florida (Baptist Hospital) - Serous microcystic adenoma (2); Cystadenoma, microcystic type (2); Microcystic adenoma (1)  
Florida (Munroe Regional Medical Center) - Serous microcystic adenoma

Florida (Pathology Associates) - Microcystic adenoma, glycogen-rich adenoma of Compagno and Oertel  
Florida (Winter Haven Hospital) - Cystadenoma  
Indiana (Fort Wayne) - Serous microcystic adenoma (serous cystadenoma), pancreas  
Louisiana (Louisiana State University Medical Center) - Serous cystadenoma (microcystic)  
Maryland (Johns Hopkins Hospital Residents) - Serous cystadenoma (1); Pancreatic serous cystic neoplasm (1)  
Maryland (National Naval Medical Center) - Microcystic adenoma (serous cystadenoma) (8)  
Maryland (NIH Pathology Residents) - Microcystic adenoma (serous cystadenoma)  
Maryland (University of Maryland Residents) - Serous cystadenoma  
Massachusetts (Brigham & Women's Hospital) - Serous cystadenoma  
Massachusetts (New England Medical Center Residents) - Serous microcystic adenoma  
Michigan (Oakwood Hospital) - Serous microcystic neoplasm  
Michigan (St. Joseph Mercy Hospital) - Serous (microcystic) adenoma  
Minnesota (United Hospital) - Serous microcystic adenoma  
Mississippi (University of MS Medical Center) - Microcystic adenoma  
Nebraska (Creighton University School of Medicine Residents) - Serous cystadenoma, microcystic  
New Jersey (Overlook Hospital) - Microcystic serous tumor, pancreas (4)  
New York (Long Island Jewish Medical Center) - Serous cystadenoma, microcystic type  
New York (Nassau University Medical Center) - Serous cystadenoma, pancreas  
New York (New York Medical College) - Microcystic cystadenoma of pancreas  
New York (Stony Brook University Hospital Residents) - Serous microcystic adenoma, pancreas  
New York (Westchester Medical Center) - Microcystic cystadenoma of pancreas  
North Carolina (Mountain Area Pathology) - Serous cystadenoma (microcystic adenoma) (4)  
Oklahoma (Tulsa) - Serous microcystic adenoma  
Oklahoma (University of Oklahoma Residents) - Serous cystadenoma of the pancreas  
Pennsylvania (Allegheny General Hospital) - Microcystic adenoma of pancreas  
Pennsylvania (Centre Community Hospital) - Serous cystadenoma of pancreas  
Pennsylvania (Memorial Medical Center) - Microcystic serous cystadenoma  
Puerto Rico (University of Puerto Rico) - Serous cystadenoma  
Rhode Island (Rhode Island Hospital Pathology Residents) - Serous microcystic adenoma  
Texas (ProPath Services) - Microcystic cystadenoma (2)  
Texas (Scott & White Memorial Hospital) - Microcystic adenoma (2)  
West Virginia (Greenbrier Valley Medical Center) - Serous microcystic adenoma  
Wisconsin (Meriter Health Services) - Serous microcystic adenoma  
Australia (Royal Prince Alfred Hospital) - Serous microcystic adenoma  
Canada (Foothills Medical Center) - Serous microcystic cystadenoma of pancreas  
Hong Kong (Hong Kong Baptist Hospital) - Multicystic cystadenoma of the pancreas  
Japan (University of Yamanashi School of Medicine) - Serous microcystic adenoma (3)  
Qatar (Hamad Medical Corporation) - Microcystic adenoma pancreas

#### **Case 6 - Diagnosis:**

Serous microcystic adenoma (cystadenoma), pancreas  
 T-59000, M-84410

#### **Case 6 – References:**

Alpert LC, Truong LD, Bossart MI, Spjut HJ. Microcystic Adenoma (Serous Cystadenoma) of the Pancreas. A Study of 14 Cases with Immunohistochemical and Electron-Microscopic Correlation. *Am J Surg Pathol* 1988; 12(4):251-263.  
 Itai Y, Ohhashi K, Furui S, et al. Microcystic Adenoma of the Pancreas. Spectrum of Computed Tomographic Findings. *J Comput Assist Tomogr* 1988; 12(5):797-803.  
 Tripodi SA, Civitelli S, Schurfeld K, et al. Microcystic Adenoma of the Pancreas (Glycogen-Rich Cystadenoma) with Stromal Amyloid Deposits. *Histopathol* 2000; 37(2): 147-149.  
 Logrono R, Vyas SH, Molina CP, et al. Microcystic Adenoma of the Pancreas. Cytologic Appearance on Percutaneous and Endoscopic Ultrasound-Guided Fine-Needle Aspiration. Report of a Case. *Diagn Cytopathol* 1999; 20(5):298-301.  
 Omeroglu A, Paner GP, Ciesla MC, et al. Serous Microcystic Adenoma of the Pancreas. *Arch Pathol Lab Med* 2001; 125(12):1613-1614.

Bakersfield - Poorly differentiated adenocarcinoma (signet ring adenocarcinoma)  
Baldwin Park (Kaiser Permanente) - Poorly differentiated signet ring carcinoma (3)  
Bay Area - Mucinous “signet ring” adenocarcinoma (4)  
Daly City (Seton Medical Center) - Poorly differentiated signet ring cell carcinoma  
Fontana (Kaiser Permanente) - Signet ring cell carcinoma  
Hayward/Fremont - Anaplastic T-cell lymphoma vs. anaplastic carcinoma  
Laguna Beach (South Coast Medical Center) - Poorly differentiated (signet ring) adenocarcinoma  
Long Beach - Poorly differentiated signet-ring adenocarcinoma (9)  
Monterey (Community Hospital of Monterey Peninsula) - Signet ring carcinoma  
Mountain View (El Camino Pathology Group) - Signet ring adenocarcinoma with mucinous features  
Oakland (Kaiser Permanente) - Poorly differentiated signet ring adenocarcinoma (4)  
Orange (Orange County Pathology Medical Group) - Adenocarcinoma, signet ring/mucinous  
Orange (UCI Medical Center Residents) - Mucinous adenocarcinoma  
Sacramento (UC Davis Medical Center) - Mucinous adenocarcinoma  
San Diego (Naval Medical Center) - Poorly differentiated adenocarcinoma  
Santa Barbara (Cottage Hospital) - Mucinous carcinoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Signet ring cell adenocarcinoma (1); Colonic adenocarcinoma, mucin secreting signet ring (1); Mucinous adenocarcinoma, signet ring cell type (1)  
Ventura - Mucinous adenocarcinoma (2)  
Alaska (Alaska Native Medical Center) - Poorly differentiated adenocarcinoma (with signet ring and sarcomatoid features)  
Arizona (Phoenix Memorial Hospital) - Poorly differentiated adenocarcinoma with rhabdoid features  
Florida (Baptist Hospital) - Poorly differentiated “signet ring” cell carcinoma (1); Signet ring cell adenocarcinoma (3); Signet ring carcinoma (1)  
Florida (Munroe Regional Medical Center) - Signet cell adenocarcinoma  
Florida (Pathology Associates) - Mucinous signet ring cell adenocarcinoma  
Florida (Winter Haven Hospital) - Signet cell adenocarcinoma  
Indiana (Fort Wayne) - Pleomorphic adenocarcinoma, signet colon  
Louisiana (Louisiana State University Medical Center) - Signet ring cell adenocarcinoma  
Maryland (Johns Hopkins Hospital Residents) - Signet ring carcinoma (consider HNPCC) (1); Poorly differentiated/signet ring adenocarcinoma with involvement of one associated node (1)  
Maryland (National Naval Medical Center) - Poorly differentiated adenocarcinoma with signet ring cell features (8)  
Maryland (NIH Pathology Residents) - Poorly differentiated mucinous adenocarcinoma (signet ring cell)  
Maryland (University of Maryland Residents) - Signet ring cell carcinoma  
Massachusetts (Brigham & Women’s Hospital) - Poorly differentiated adenocarcinoma, signet ring cell type  
Massachusetts (New England Medical Center Residents) - Adenocarcinoma, invasive with signet ring features  
Michigan (Oakwood Hospital) - Mucinous carcinoma, signet ring type  
Michigan (St. Joseph Mercy Hospital) - Signet ring cell carcinoma  
Minnesota (United Hospital) - Poorly differentiated adenocarcinoma  
Mississippi (University of MS Medical Center) - Signet ring cell adenocarcinoma  
Nebraska (Creighton University School of Medicine Residents) - Poorly differentiated adenocarcinoma  
New Jersey (Overlook Hospital) - Signet ring cell carcinoma, colon (4)  
New York (Long Island Jewish Medical Center) - High grade adenocarcinoma, signet ring cell type  
New York (Nassau University Medical Center) - Poorly differentiated adenocarcinoma, signet ring type, colon  
New York (New York Medical College) - Poorly differentiated mucinous (signet ring) adenocarcinoma, colon  
New York (Stony Brook University Hospital Residents) - Poorly differentiated adenocarcinoma with signet ring  
New York (Westchester Medical Center) - Poorly differentiated mucinous (signet ring) adenocarcinoma, colon  
North Carolina (Mountain Area Pathology) - Signet ring adenocarcinoma (1); Signet ring cell carcinoma (1); Poorly differentiated adenocarcinoma (signet ring) (1); Diffuse adenocarcinoma (signet ring type) (1)  
Oklahoma (Tulsa) - Signet ring cell type adenocarcinoma  
Oklahoma (University of Oklahoma Residents) - Poorly differentiated mucinous adenocarcinoma with signet ring cells  
Pennsylvania (Allegheny General Hospital) - Mucinous adenocarcinoma  
Pennsylvania (Centre Community Hospital) - Mucinous adenocarcinoma with signet ring differentiation

Pennsylvania (Memorial Medical Center) - Poorly differentiated mucinous adenocarcinoma  
Puerto Rico (University of Puerto Rico) - Signet ring cell carcinoma  
Rhode Island (Rhode Island Hospital Pathology Residents) - Signet ring cell carcinoma  
Texas (ProPath Services) - Signet ring carcinoma (2)  
Texas (Scott & White Memorial Hospital) - Poorly differentiated adenocarcinoma with signet ring cells  
West Virginia (Greenbrier Valley Medical Center) - Adenocarcinoma, signet ring  
Wisconsin (Meriter Health Services) - Signet ring adenocarcinoma  
Australia (Royal Prince Alfred Hospital) - Signet ring adenocarcinoma with mucinous areas  
Canada (Foothills Medical Center) - Signet ring adenocarcinoma  
Hong Kong (Hong Kong Baptist Hospital) - Signet ring cell carcinoma  
Japan (University of Yamanashi School of Medicine) - Signet ring cell carcinoid (1); Mucinous adenocarcinoma (2)  
Qatar (Hamad Medical Corporation) - Poorly differentiated carcinoma with signet ring features

#### **Case 7 - Diagnosis:**

Poorly differentiated mucinous adenocarcinoma with signet ring features, sigmoid colon  
 T-67000, M-84803

#### **Case 7 - References:**

Stevens WR and Ruiz P. Primary Linitis Plastica Carcinoma of the Colon and Rectum. *Mod Pathol* 1989; 2(3):265-269.  
 Prasad S, Patankar T, Zakaria TT, et al. Primary Linitis Plastica of the Rectosigmoid in a Thirteen Year Old Boy. *J Postgrad Med* 1998; 44(2):40-42.  
 Bonello JC, Quan SH and Sternberg SS. Primary Linitis Plastica of the Rectum. *Dis Colon Rectum* 1980; 23(5):337-42U.  
 Tandon M, Sostek M and Klein MA. Focus of Signet Ring Cell Carcinoma in an Adenoma of the Sigmoid Colon. *Arch Pathol Lab Med* 1999; 123(10):957-959.  
 Nissan A, Guillem JG, Paty PB, et al. Signet-Ring Cell Carcinoma of the Colon and Rectum. A Matched Control Study. *Dis Colon Rectum* 1999; 42(9):1176-1180.

#### **Case No. 8, Accession No. 29637**

**January 2003**

Bakersfield - Melanoma  
Baldwin Park (Kaiser Permanente) - Metastatic melanoma (3)  
Bay Area - Melanoma (4)  
Daly City (Seton Medical Center) - Malignant melanoma  
Fontana (Kaiser Permanente) - Melanoma  
Hayward/Fremont - Melanoma  
Laguna Beach (South Coast Medical Center) - Melanoma  
Long Beach - Metastatic malignant melanoma (9)  
Monterey (Community Hospital of Monterey Peninsula) - Melanoma  
Mountain View (El Camino Pathology Group) - Metastatic melanoma  
Oakland (Kaiser Permanente) - Melanoma (4)  
Orange (Orange County Pathology Medical Group) - Metastatic malignant melanoma  
Orange (UCI Medical Center Residents) - Melanoma, metastatic  
Sacramento (UC Davis Medical Center) - Melanoma  
San Diego (Naval Medical Center) - Metastatic melanoma  
Santa Barbara (Cottage Hospital) - Metastatic melanoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Malignant melanoma (3)  
Ventura - Malignant melanoma (2)  
Alaska (Alaska Native Medical Center) - Malignant melanoma  
Arizona (Phoenix Memorial Hospital) - Malignant melanoma, metastatic to small bowel  
Florida (Baptist Hospital) - Metastatic melanoma (2); Malignant melanoma (3)  
Florida (Munroe Regional Medical Center) - Melanoma  
Florida (Pathology Associates) - Melanoma  
Florida (Winter Haven Hospital) - Melanoma

Indiana (Fort Wayne) - Melanoma, small bowel  
Louisiana (Louisiana State University Medical Center) - Metastatic melanoma  
Maryland (Johns Hopkins Hospital Residents) - Malignant melanoma (1); Malignant melanoma, likely metastatic (1)  
Maryland (National Naval Medical Center) - Malignant melanoma  
Maryland (NIH Pathology Residents) - Metastatic melanoma  
Maryland (University of Maryland Residents) - Metastatic melanoma  
Massachusetts (Brigham & Women's Hospital) - Metastatic melanoma  
Massachusetts (New England Medical Center Residents) - Metastatic malignant melanoma  
Michigan (Oakwood Hospital) - Metastatic melanoma  
Michigan (St. Joseph Mercy Hospital) - Metastatic melanoma  
Minnesota (United Hospital) - Malignant melanoma  
Mississippi (University of MS Medical Center) - Metastatic melanoma  
Nebraska (Creighton University School of Medicine Residents) - Melanoma  
New Jersey (Overlook Hospital) - Metastatic melanoma, small bowel (4)  
New York (Long Island Jewish Medical Center) - Melanoma, metastatic  
New York (Nassau University Medical Center) - Melanoma, small bowel  
New York (New York Medical College) - Melanoma  
New York (Stony Brook University Hospital Residents) - Malignant melanoma, metastatic  
New York (Westchester Medical Center) - Melanoma  
North Carolina (Mountain Area Pathology) - Malignant melanoma (3); Malignant melanoma, probably metastatic (1)  
Oklahoma (Tulsa) - Malignant melanoma  
Oklahoma (University of Oklahoma Residents) - Melanoma  
Pennsylvania (Allegheny General Hospital) - Metastatic melanoma  
Pennsylvania (Centre Community Hospital) - Metastatic malignant melanoma  
Pennsylvania (Memorial Medical Center) - Malignant melanoma  
Puerto Rico (University of Puerto Rico) - Malignant melanoma  
Rhode Island (Rhode Island Hospital Pathology Residents) - Malignant melanoma  
Texas (ProPath Services) - Malignant melanoma (2)  
Texas (Scott & White Memorial Hospital) - Malignant melanoma (2)  
West Virginia (Greenbrier Valley Medical Center) - Melanoma, malignant  
Wisconsin (Meriter Health Services) - Metastatic melanoma  
Australia (Royal Prince Alfred Hospital) - Melanoma  
Canada (Foothills Medical Center) - Malignant melanoma  
Hong Kong (Hong Kong Baptist Hospital) - Malignant melanoma  
Japan (University of Yamanashi School of Medicine) - Malignant melanoma (3)  
Qatar (Hamad Medical Corporation) - Metastatic malignant melanoma

#### **Case 8 - Diagnosis:**

Melanoma, small bowel  
 T-64000, M-87203

#### **Case 8 – References:**

Wilson BG and Anderson JR. Malignant Melanoma Involving the Small Bowel. *Postgrad Med J* 1986; 62(727):355-357.  
 Goodman PL and Karakousis CP. Symptomatic Gastrointestinal Metastases from Malignant Melanoma. *Cancer* 1981; 48(4):1058-1059.  
 Bender GN, Maglinte DD, McLarney JH, et al. Malignant Melanoma. Patterns of Metastasis to the Small Bowel, Reliability of Imaging Studies, and Clinical Relevance. *Am J Gastroenterol* 2001; 96(8):2392-2400.  
 Blecker D, Abraham S, Furth EE, et al. Melanoma in the Gastrointestinal Tract. *Am J Gastroenterol* 1999; 94(12):3427-3433.  
 Sachs DL, Lowe L, Chang AE, et al. Do Primary Small Intestinal Melanomas Exist? Report of a Case. *J Am Acad Dermatol* 1999; 41(6):1042-1044.

Bakersfield - Neuroendocrine neoplasm  
Baldwin Park (Kaiser Permanente) - Paranglioma (2); Carcinoid tumor (1)  
Bay Area - Extra-adrenal pheochromocytoma /paranglioma (3)  
Daly City (Seton Medical Center) - Paranglioma  
Fontana (Kaiser Permanente) - Paranglioma  
Hayward/Fremont - Large cell neuroendocrine carcinoma  
Laguna Beach (South Coast Medical Center) - Extra-adrenal paranglioma  
Long Beach - Paranglioma (9)  
Monterey (Community Hospital of Monterey Peninsula) - Pheochromocytoma  
Mountain View (El Camino Pathology Group) - Paranglioma  
Oakland (Kaiser Permanente) - Extra-adrenal pheochromocytoma (4)  
Orange (Orange County Pathology Medical Group) - Extra-adrenal paranglioma  
Orange (UCI Medical Center Residents) - Paranglioma  
Sacramento (UC Davis Medical Center) - Paranglioma  
San Diego (Naval Medical Center) - Paranglioma  
Santa Barbara (Cottage Hospital) - Paranglioma  
Santa Rosa (Santa Rosa Memorial Hospital) - Paranglioma (3)  
Ventura - Intra-abdominal paranglioma (2)  
Alaska (Alaska Native Medical Center) - Islet cell tumor  
Arizona (Phoenix Memorial Hospital) - Neuroendocrine carcinoma, high grade  
Florida (Baptist Hospital) - Paranglioma (1); Islet cell tumor (1); Neuroendocrine tumor (islet cell vs. carcinoid) (1); Metastatic neuroendocrine carcinoma (? pancreas) (1); Islet cell/carcinoid/neuroendocrine carcinoma (1)  
Florida (Munroe Regional Medical Center) - Paranglioma  
Florida (Pathology Associates) - Paranglioma  
Florida (Winter Haven Hospital) - Paranglioma  
Indiana (Fort Wayne) - Paranglioma, area of ligament of Treitz  
Louisiana (Louisiana State University Medical Center) - Endocrine carcinoma (possibly a metastasis from the pancreas)  
Maryland (Johns Hopkins Hospital Residents) - Paranglioma (2)  
Maryland (National Naval Medical Center) - Paranglioma (7); Gangliocytic paranglioma (1)  
Maryland (NIH Pathology Residents) - Neuroendocrine tumor, possibly paranglioma  
Maryland (University of Maryland Residents) - Paranglioma  
Massachusetts (Brigham & Women's Hospital) - Paranglioma  
Massachusetts (New England Medical Center Residents) - Paranglioma  
Michigan (Oakwood Hospital) - Extra-adrenal paranglioma  
Michigan (St. Joseph Mercy Hospital) - Neuroendocrine tumor, favor paranglioma  
Minnesota (United Hospital) - Paranglioma  
Mississippi (University of MS Medical Center) - Retroperitoneal paranglioma  
Nebraska (Creighton University School of Medicine Residents) - Paranglioma  
New Jersey (Overlook Hospital) - Neuroendocrine tumor, NOS (4)  
New York (Long Island Jewish Medical Center) - Paranglioma (extra-adrenal pheochromocytoma)  
New York (Nassau University Medical Center) - Paranglioma, ligament of Treitz  
New York (New York Medical College) - Paranglioma  
New York (Stony Brook University Hospital Residents) - Gangliocytic paranglioma  
New York (Westchester Medical Center) - Paranglioma  
North Carolina (Mountain Area Pathology) - Paranglioma (2); Pheochromocytoma vs. paranglioma (2)  
Oklahoma (Tulsa) - Paranglioma  
Oklahoma (University of Oklahoma Residents) - Extra-adrenal paranglioma  
Pennsylvania (Allegheny General Hospital) - Paranglioma  
Pennsylvania (Centre Community Hospital) - Intra-abdominal small round-cell tumor  
Pennsylvania (Memorial Medical Center) - Paranglioma  
Puerto Rico (University of Puerto Rico) - Paranglioma

Rhode Island (Rhode Island Hospital Pathology Residents) - Paranglioma  
Texas (ProPath Services) - Paranglioma (1); paraganglioma (extra-adrenal pheochromocytoma)  
Texas (Scott & White Memorial Hospital) - Paranglioma  
West Virginia (Greenbrier Valley Medical Center) - Paranglioma pheochromocytoma  
Wisconsin (Meriter Health Services) - Paranglioma  
Australia (Royal Prince Alfred Hospital) - Paranglioma  
Canada (Foothills Medical Center) - Gangliocytic paraganglioma  
Hong Kong (Hong Kong Baptist Hospital) - Paranglioma  
Japan (University of Yamanashi School of Medicine) - Paranglioma (2); Endocrine tumor (1)  
Qatar (Hamad Medical Corporation) - Extra-adrenal paraganglioma

#### **Case 9 - Diagnosis:**

Gangliocytic paraganglioma, duodenum  
 T-64300, M-86801

#### **Case 9 – References:**

Min KW. Gangliocytic Paranglioma of the Duodenum. Report of a Case with Immunocytochemical and Ultrastructural Investigation. *Ultrastruct Pathol* 1997; 21(6):587-595.  
 Perrone T, Sibley RK and Rosai J. Duodenal Gangliocytic Paranglioma. An Immunohistochemical and Ultrastructural Study and a Hypothesis Concerning its Origin. *Am J Surg Pathol* 1985; 9(1):31-41.  
 Hamid QA, Bishop AE, Rode J, et al. Duodenal Gangliocytic Parangliomas. A Study of 10 Cases with Immunocytochemical Neuroendocrine Markers. *Hum Pathol* 1986; 17(11):1151-1157.  
 Barbareschi M, Frigo B, Aldovini D, et al. Duodenal Gangliocytic Paranglioma. Report of a Case and Review of the Literature. *Virchows Arch A Pathol Anat Histopathol* 1989; 416(1):81-89.  
 Guarda LA and Ordonez NG. Gangliocytic Paranglioma of the Duodenum. Report of Cytologic Histologic, Immunohistochemical, and Ultrastructural Features of a Case. *Diagn Cytopathol* 1987; 3(4):314-319.

#### **Case No. 10, Accession No. 29595**

**January 2003**

Bakersfield - Gastrointestinal stromal tumor, low grade  
Baldwin Park (Kaiser Permanente) - GIST (3)  
Bay Area - Gastrointestinal stromal tumor (GIST/GANT) (4)  
Daly City (Seton Medical Center) - Inflammatory fibrous tumor  
Fontana (Kaiser Permanente) - Gastrointestinal stromal tumor  
Hayward/Fremont - Gastrointestinal stromal tumor  
Laguna Beach (South Coast Medical Center) - GIST  
Long Beach - GIST (low malignant potential) (9)  
Monterey (Community Hospital of Monterey Peninsula) - GIST  
Mountain View (El Camino Pathology Group) - GI stromal tumor  
Oakland (Kaiser Permanente) - Fibromatosis (4)  
Orange (Orange County Pathology Medical Group) - Gastrointestinal stromal tumor  
Orange (UCI Medical Center Residents) - GIST  
Sacramento (UC Davis Medical Center) - GIST  
San Diego (Naval Medical Center) - Gastrointestinal stromal tumor  
Santa Barbara (Cottage Hospital) - Gastrointestinal stromal tumor  
Santa Rosa (Santa Rosa Memorial Hospital) - Gastrointestinal stromal tumor (GIST) (3)  
Ventura - Gastrointestinal stromal tumor (2)  
Alaska (Alaska Native Medical Center) - Malignant GI stromal tumor (GIST)  
Arizona (Phoenix Memorial Hospital) - Gastrointestinal stromal tumor  
Florida (Baptist Hospital) - Extra-gastrointestinal stromal tumor (2); GIST (3)  
Florida (Munroe Regional Medical Center) - Gastrointestinal stromal tumor  
Florida (Pathology Associates) - GIST  
Florida (Winter Haven Hospital) - Fibromatosis



Indiana (Fort Wayne) - Gastrointestinal stromal tumor (GIST), small bowel mesentery  
Louisiana (Louisiana State University Medical Center) - Fibromatosis  
Maryland (Johns Hopkins Hospital Residents) - GIST (2)  
Maryland (National Naval Medical Center) - Gastrointestinal stromal tumor  
Maryland (NIH Pathology Residents) - GIST  
Maryland (University of Maryland Residents) - Gastrointestinal stromal tumor  
Massachusetts (Brigham & Women's Hospital) - Spindle cell GIST  
Massachusetts (New England Medical Center Residents) - Gastrointestinal stromal tumor  
Michigan (Oakwood Hospital) - Gastrointestinal stromal tumor  
Michigan (St. Joseph Mercy Hospital) - Gastrointestinal stromal tumor (GIST)  
Minnesota (United Hospital) - Gastrointestinal stromal tumor  
Mississippi (University of MS Medical Center) - Extragastric stromal tumor  
Nebraska (Creighton University School of Medicine Residents) - GIST  
New Jersey (Overlook Hospital) - GIST (4)  
New York (Long Island Jewish Medical Center) - GIST  
New York (Nassau University Medical Center) - GIST, low grade, mesentery  
New York (New York Medical College) - Gastrointestinal stromal tumor (GIST)  
New York (Stony Brook University Hospital Residents) - Gastrointestinal stromal tumor (GIST)  
New York (Westchester Medical Center) - Gastrointestinal stromal tumor (GIST)  
North Carolina (Mountain Area Pathology) - Gastrointestinal stromal tumor (4)  
Oklahoma (Tulsa) - Gastrointestinal stromal tumor  
Oklahoma (University of Oklahoma Residents) - Gastrointestinal stromal tumor  
Pennsylvania (Allegheny General Hospital) - Gastrointestinal stromal tumor ("GIST"), malignant potential  
Pennsylvania (Centre Community Hospital) - Mesenteric fibromatosis  
Pennsylvania (Memorial Medical Center) - GIST (borderline malignancy)  
Puerto Rico (University of Puerto Rico) - Gastrointestinal stromal tumor  
Rhode Island (Rhode Island Hospital Pathology Residents) - Gastrointestinal stromal tumor  
Texas (ProPath Services) - Gastrointestinal stromal tumor (2)  
Texas (Scott & White Memorial Hospital) - GIST (malignant)  
West Virginia (Greenbrier Valley Medical Center) - Neurofibroma  
Wisconsin (Meriter Health Services) - Gastrointestinal stromal tumor  
Australia (Royal Prince Alfred Hospital) - Desmoid tumor  
Canada (Foothills Medical Center) - GI stromal tumor  
Hong Kong (Hong Kong Baptist Hospital) - Gastrointestinal stromal tumor, moderate malignant potential  
Japan (University of Yamanashi School of Medicine) - Gastrointestinal stromal tumor (3)  
Qatar (Hamad Medical Corporation) - GIST (malignant)

#### **Case 10 - Diagnosis:**

Gastrointestinal stromal tumor (CD117 positive), small bowel mesentery  
 T-50500, M-88903

#### **Case 10 - References:**

Hasegawa T, Matsuno Y, Shimoda T, et al. Gastrointestinal Stromal Tumor. Consistent CD117 Immunostaining for Diagnosis, and Prognostic Classification Based on Tumor Size and MIB-1 Grade. *Hum Pathol* 2002; 33(6):669-676.  
 Capdeville R, Buchdunger E and Zimermann J. Glivec (STI571, Imatinib) A Rationally Developed, Targeted Anticancer Drug. *Nature Rev Drug Discov* 2002; 1(7):493-502.  
 Joensuu H, Roberts PJ, Sarlomo-Rikala M, et al. Effect of Tyrosine Kinase Inhibitor STI571 in a Patient with a Metastatic Gastrointestinal Stromal Tumor. *N Eng J Med* 2001; 344(14):1052-1056.  
 van Oosterom AT, Judson I, Verweij J, et al. Safety and Efficacy of Imatinib (STI571) in Metastatic Gastrointestinal Stromal Tumours. A Phase 1 Study. *Lancet* 2001; 358(9291):1421-1423.