

"GASTROINTESTINAL TRACT PATHOLOGY"

Study Cases, Subscription A

January 2003



California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
Loma Linda University School of Medicine
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E-mail: cttr@linkline.com Web page: www.cttr.org

Web site & Case of the Month: www.cttr.org

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:

Weldon K. Bullock, MD 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: Howard Otto, M.D.

Cheboygan, MI

Tissue from: Rectum Accession #28924

Clinical Abstract:

Because of rectal discomfort and spasms, pelvic pressure and occasional blood in her stools, this 51-year-old female underwent a colonoscopy with biopsy, followed by an abdominoperineal resection.

Case No. 1 - January 2003

Case No. 2 - January 2003

Gross Pathology:

At the anorectal junction was a 4 x 8 cm circumferential nodular elevated mass distorting overlying rectal mucosa.

Contributor: Arno A. Roscher, M.D.

Granada Hills, CA

Tissue from: Terminal ileum Accession #29606

Clinical Abstract:

For three days this 41-year-old female suffered from right lower quadrant abdominal pain and diarrhea. A colonoscopy showed a nodule in the right colon and an enlarged ileocecal valve with friable and irregular mucosa. Following biopsy, a right hemicolectomy was performed.

Gross Pathology:

Just proximal to the ileocecal valve was a 1 x 2 x 2.5 cm yellow sessile mass. Two satellite nodules, 1 and 1.5 cm in diameter, were in the ileocecal valve and adjacent cecum. The attached mesentery and mesocolon were diffusely indurated.

SPECIAL STUDIES (Outside facility):

Chromogranin A positive
Neuron specific enolase positive
Synaptophysin positive

Contributor: Philip G. Robinson, M.D.

Boynton Beach, FL

Case No. 3 - January 2003

Case No. 4 - January 2003

Tissue from: Small bowel Accession #28167

Clinical Abstract:

After one day of severe abdominal pain, this 67-year-old male presented to the Emergency Department. A small bowel resection was performed.

Gross Pathology:

Within the resected small bowel was a 5.2 x 8.5 cm circumferential ulcer with a full-thickness perforation. The base of the ulcer and surrounding tissues were gray. Adjacent regions of small bowel mucosa showed multiple tan nodules up to 0.1 cm in diameter.

SPECIAL STUDIES (Outside facility):

Keratin negative LCA positive

Contributor: Roger Terry, M.D.

San Gabriel, CA

Tissue from: Gallbladder Accession #29700

Clinical Abstract:

After eating a big meal on Christmas Eve, this 74-year-old female started feeling abdominal discomfort and attributed it to overeating. However, the pain persisted, accompanied by nausea and vomiting. CT scan showed a thickened gallbladder with multiple stones and pancreatic changes consistent with pancreatitis.

Gross Pathology:

The previously opened gallbladder measured 7.0 x 5.5 x 3.5 cm. The gallbladder wall averaged 2.3 cm in thickness throughout. There were multiple yellow discolorations measuring in size from 0.3 cm to 1.5 cm.

Contributor: Robert E. Riechmann, M.D.

Covina, CA

Case No. 5 - January 2003

Tissue from: Small bowel

Accession #24466

Clinical Abstract:

On workup, this 49-year-old female was found to have an abdominal mass.

Gross Pathology:

The 64 cm of resected small bowel was curled around and densely adherent to a hard mesentery that was expanded into an ovoid yellow-white 7.0 cm diameter mass.

Contributor: G. N. Pesselnick, M.D.

Case No. 6 - January 2003

Los Angeles, CA

Tissue from: Pancreas

Accession #23497

Clinical Abstract:

A female, age unknown, was found to have an abdominal mass.

Gross Pathology:

A 10.0 x 7.0 x 8.0 cm bosselated rubbery mass arose from the tail of the pancreas. The cut surface showed criss-crossing fibrous bands and small cystic spaces.

Contributor: Thomas E. Hall, M.D.

Reno, NV

Accession #24539

Case No. 7 - January 2003

Tissue from: Sigmoid colon

Clinical Abstract:

A 34-year-old male developed loose, mucoid stools with occasional bleeding. A barium enema revealed circumferential narrowing in the sigmoid region.

Gross Pathology:

The resected sigmoid colon contained a 5.5 cm annular mass that penetrated the entire thickness of the bowel wall. The pericolic fat contained many enlarged lymph nodes.

Contributor: Henry Tesluk, M.D.

Sacramento, CA

Case No. 8 - January 2003

Tissue from: Small bowel

Accession #29637

Clinical Abstract:

This 83-year-old female was found to have severe iron deficiency anemia. She had recently been treated for *H. pylori* gastritis but no definite source of bleeding was found. An EGD showed a polyp in the jejunum, which was biopsied. She was otherwise in good health. There was no lymphadenopathy.

Gross Pathology:

A 3.0 cm polyp was removed from the jejunum.

SPECIAL STUDIES (Outside facility):

HMB-45 positive Lymphocytic markers negative Contributor: Otto Klinger, M.D.

Mission Hills, CA

Case No. 9 - January 2003

Tissue from: Ligament of Treitz

Accession #27242

Clinical Abstract:

This 33-year-old male pedestrian was struck by a motor vehicle and experienced massive trauma with ruptured viscus and multiple fractures. During the course of surgery, a mass in the region of the ligament of Treitz was found.

Gross Pathology:

The specimen included a 3.0 cm encapsulated spherical tumor.

SPECIALS STUDIES (Outside facility):

NSE positive
Synaptrophysin positive
S-100 negative
Keratin negative
GFAP negative

Contributor: John McGill, M.D.

Case No. 10 - January 2003

Pasadena, CA

Tissue from: Small Bowel Mesentery

Accession #29595

Clinical Abstract:

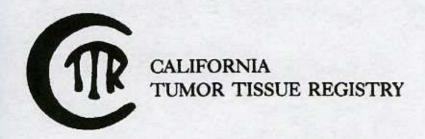
This 77-year-old male was found to have occult blood in his stool. A CT scan showed a large intra-abdominal or retroperitoneal mass.

Gross Pathology:

Two bulging masses, 13.0 x 10.5 x 10.5 cm and 3.5 x 3.0 x 2.0 cm, were present in the mesentery of the resected small bowel. The cut surfaces were dense, white and fibrous. The smaller nodules showed some invasion of small bowel muscular wall.

SPECIAL STUDIES (Outside facility):

CD-117 strongly positive
S-100 rare positivity
Actin negative
Desmin negative

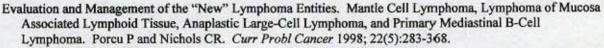


GASTROINTESTINAL TRACT PATHOLOGY

Minutes - Subscription A

January, 2003

SUGGESTED READING (General Topics from Recent Literature):



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. Rakozy 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.

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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

<u>Maryland (Johns Hopkins Hospital Residents)</u> - 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)

Oatar (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 then 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 Metasfasis 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)

Oatar (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 (Munroc Regional Medical Center) - Xanthogranulomatous cholecystitis

Florida (Pathology Associates) - Inflammatory pseudotumor, xanthogranulomatous cholecystitis

Florida (Winter Haven Hospital) - Xanthogranulomatous cholecystitis

Indiana (Fort Wayne) - Xanthogranulomatous cholecystitis, galibladder

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 (Scton 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

<u>Santa Rosa (Santa Rosa Memorial Hospital)</u> - 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 mesenteritits; 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 (Alleghenv 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)

Oatar (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

<u>Santa Rosa (Santa Rosa Memorial Hospital)</u> - 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

<u>Maryland (Johns Hopkins Hospital Residents)</u> - 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)

Quatar (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 (Scton 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 (Munroc 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) - Paraganglioma (2); Carcinoid tumor (1)

Bay Area - Extra-adrenal pheochromocytoma /paraganglioma (3)

Daly City (Seton Medical Center) - Paraganglioma

Fontana (Kaiser Permanente) - Paraganglioma

Hayward/Fremont - Large cell neuroendocrine carcinoma

Laguna Beach (South Coast Medical Center) - Extra-adrenal paraganglioma

Long Beach - Paraganglioma (9)

Monterey (Community Hospital of Monterey Peninsula) - Pheochromocytoma

Mountain View (El Camino Pathology Group) - Paraganglioma

Oakland (Kaiser Permanente) - Extra-adrenal pheochromocytoma (4)

Orange (Orange County Pathology Medical Group) - Extra-adrenal paraganglioma

Orange (UCI Medical Center Residents) - Paraganglioma

Sacramento (UC Davis Medical Center) - Paraganglioma

San Diego (Naval Medical Center) - Paraganglioma

Santa Barbara (Cottage Hospital) - Paraganglioma

Santa Rosa (Santa Rosa Memorial Hospital) - Paraganglioma (3)

Ventura - Intra-abdominal paraganglioma (2)

Alaska (Alaska Native Medical Center) - Islet cell tumor

Arizona (Phoenix Memorial Hospital) - Neuroendocrine carcinoma, high grade

Florida (Baptist Hospital) - Paraganglioma (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) - Paraganglioma

Florida (Pathology Associates) - Paraganglioma

Florida (Winter Haven Hospital) - Paraganglioma

Indiana (Fort Wayne) - Paraganglioma, area of ligament of Treitz

Louisiana (Louisiana State University Medical Center) - Endocrine carcinoma (possibly a metastasis from the pancreas)

Maryland (Johns Hopkins Hospital Residents) - Paraganglioma (2)

Maryland (National Naval Medical Center) - Paraganglioma (7); Gangliocytic paraganglioma (1)

Maryland (NIH Pathology Residents) - Neuroendocrine tumor, possibly paraganglioma

Maryland (University of Maryland Residents) - Paraganglioma

Massachusetts (Brigham & Women's Hospital) - Paraganglioma

Massachusetts (New England Medical Center Residents) - Paraganglioma

Michigan (Oakwood Hospital) - Extra-adrenal paraganglioma

Michigan (St. Joseph Mercy Hospital) - Neuroendocrine tumor, favor paraganglioma

Minnesota (United Hospital) - Paraganglioma

Mississippi (University of MS Medical Center) - Retroperitoneal paraganglioma

Nebraska (Creighton University School of Medicine Residents) - Paraganglioma

New Jersey (Overlook Hospital) - Neuroendocrine tumor, NOS (4)

New York (Long Island Jewish Medical Center) - Paraganglioma (extra-adrenal pheochromocytoma)

New York (Nassau University Medical Center) - Paraganglioma, ligament of Treitz

New York (New York Medical College) - Paraganglioma

New York (Stony Brook University Hospital Residents) - Gangliocytic paraganglioma

New York (Westchester Medical Center) - Paraganglioma

North Carolina (Mountain Area Pathology) - Paraganglioma (2); Pheochromocytoma vs. paraganglioma (2)

Oklahoma (Tulsa) - Paraganglioma

Oklahoma (University of Oklahoma Residents) - Extra-adrenal paraganglioma

Pennsylvania (Allegheny General Hospital) - Paraganglioma

Pennsylvania (Centre Community Hospital) - Intra-abdominal small round-cell tumor

Pennsylvania (Memorial Medical Center) - Paraganglioma

Puerto Rico (University of Puerto Rico) - Paraganglioma

Rhode Island (Rhode Island Hospital Pathology Residents) - Paraganglioma

Texas (ProPath Services) - Paraganglioma (1); paraganglioma (extra-adrenal pheochromocytoma)

Texas (Scott & White Memorial Hospital) - Paraganglioma

West Virginia (Greenbrier Valley Medical Center) - Paraganglioma pheochromocytoma

Wisconsin (Meriter Health Services) - Paraganglioma

Australia (Royal Prince Alfred Hospital) - Paraganglioma

Canada (Foothills Medical Center) - Gangliocytic paraganglioma

Hong Kong (Hong Kong Baptist Hospital) - Paraganglioma

Japan (University of Yamanashi School of Medicine) - Paraganglioma (2); Endocrine tumor (1)

Oatar (Hamad Medical Corporation) - Extra-adrenal paraganglioma

Case 9 - Diagnosis:

Gangliocytic paraganglioma, duodenum T-64300, M-86801

Case 9 - References:

Min KW. Gangliocytic Paraganglioma of the Duodenum. Report of a Case with Immunocytochemical and Ultrastructural Investigation. Ultrastruct Pathol 1997; 21(6):587-595.

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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) - Extragastrointestinal 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)

Oatar (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.

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