



CALIFORNIA
TUMOR TISSUE REGISTRY

GENERAL PATHOLOGY

Minutes – Subscription A

May 2003



SUGGESTED READING (General Topics from Recent Literature):

- Markers, Markers Everywhere.... Prognosis in Colorectal Cancer - Time for a New Approach. Cunningham, D and Andrejev J. *J of Clin Oncol* 2001; 19(2):286-288.
- Accuracy of Magnetic Resonance Imaging in Prediction of Tumour-Free Resection Margin in Rectal Cancer Surgery. Beets-Tan RGH, Beets GL, Vliegen RFA, et al. *The Lancet* 2001; 357:497-504.
- Pathology and the Internet. Wheeler D. *Adv in Anat Pathol* 2003; 10(3):172-173.
- Distinctive Clinicopathological Characteristics in Esophageal Squamous Cell Carcinoma. Kuwano H, Nakajima M, Miyazaki T, et al. *Ann Thorac Cardiovasc Surg* 2003; 9(1):6-13.
- Immunophenotype of Desmoplastic Small Round Cell Tumors as Detected in Cases with EWS-WT1. Gene Fusion Product. Zhang PJ, Goldblum JR, et al. *Mod Pathol* 2003; 16:229-235.

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FILE DIAGNOSES

CTTR Subscription A

May 2003

Case 1:

Infectious mononucleosis, tonsils and adenoids
T-61100, D-0410

Case 2:

Fibrothecoma, ovary
T-86922, M-86000

Case 3:

Clear cell carcinoma, ovary
T-87000, M-83103

Case 4:

Metastatic signet ring adenocarcinoma, ovary (so-called “Krukenberg tumor”)
T-86920, M-80103

Case 5:

Embryonal rhabdomyosarcoma, eyelid
T-XX821, M-89103

Case 6:

Gastrointestinal stromal tumor, esophagus
T-62000, M-88903

Case 7:

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

Case 8:

Mesenteric fibromatosis, small bowel
T-64000, M-76100

Case 9:

Solitary fibrous tumor, buttock
T-Y1600, M-91600

Case 10:

Hemangiopericytoma/solitary fibrous tumor, intra-abdominal
T-Y4100, M-91503

Bakersfield - Hodgkin's lymphoma
Bay Area - Chronic tonsillitis, viral (? infectious mononucleosis) (3)
Baldwin Park (Kaiser Permanente) - Hodgkin's lymphoma (3)
Hayward/Fremont - Viral lymphadenitis, favor measles
Laguna Beach (South Coast Medical Center) - High grade (large cell) lymphoma
Long Beach (Lakewood Regional Medical Center) - Infectious mononucleosis (5)
Monterey (Community Hospital of Monterey Peninsula) - Infectious mononucleosis
Mountain View (El Camino Pathology Group) - Infectious mononucleosis
Oakland (Kaiser Permanente) - Reactive node consistent with infectious mononucleosis (3)
Orange (Kaiser Permanente) - Viral (mono) vs. Hodgkin's (mononucleosis) (2)
Orange (UCI Medical Center Residents) - Malignant lymphoma
San Diego (Naval Medical Center) - Infectious mononucleosis (1); Reactive interfollicular process, favor mononucleosis
Santa Barbara (Cottage Hospital) - Necrotizing immunoblastic lymphadenitis
Santa Rosa (Santa Rosa Memorial Hospital) - Reactive lymphoid hyperplasia with acute inflammation, rule out Epstein-Barr virus (1);
Marked lymphoid hyperplasia consistent with infectious mononucleosis (1); Reactive hyperplasia, rule out Epstein-Barr virus (1)
Ventura - Hodgkin's disease, mixed cellularity (2)
Alaska (Alaska Pathology Laboratory) - Large cell lymphoma (? TCRBL)
Alaska (Alaska Native Medical Center) - Infectious mononucleosis (2); Hodgkin's disease (1)
Arizona (Phoenix Memorial Hospital) - Hodgkin's lymphoma, classical lymphocyte depleted
Florida (Baptist Hospital) - Reactive hyperplasia (1); Florid lymphoid hyperplasia (? Viropathic such as mononucleosis), extensive candidiasis (1); Mononucleosis (1); Reactive paracortical hyperplasia (prob viral) (1)
Florida (Munroe Regional Medical Center) - Necrotizing lymphadenitis
Florida (Pathology Associates) - Lymphoma
Florida (Winter Haven Hospital) - Hodgkin's disease
Indiana (Fort Wayne) - EBV lymphoma
Louisiana (Louisiana State University Medical Center) - Infectious mononucleosis surface ulceration with fungus
Maryland (Johns Hopkins Hospital Residents) - Primary EBV infection vs. Hodgkin's disease, would perform both CD15/CD30 stains and EBV insitu hybridization studies to differentiate (1)
Maryland (National Naval Medical Center) - Infectious mononucleosis
Maryland (University of Maryland) - Acute tonsillitis, rule out infectious mononucleosis
Massachusetts (New England Medical Center Residents) - Infectious mononucleosis
Michigan (Oakwood Hospital) - Viral lymphadenitis
Nebraska (Creighton University School of Medicine Residents) - Florid lymphoid hyperplasia (consistent with viral infection)
New Jersey (Overlook Hospital) - Florid lymphoid hyperplasia (probably infectious mono)
New York (Long Island Jewish Medical Center) - Infectious mononucleosis
New York (Nassau County Medical Center) - Lymphadenitis, favors Kikuchi's
New York (Stony Brook University Hospital Residents) - Mixed cellularity classical Hodgkin's lymphoma
New York (Westchester Medical Center) - Follicular and paracortical hyperplasia consistent with infectious mononucleosis
North Carolina (Mountain Area Pathology) - Tonsillar abscess with mixed bacteria and fungal organisms (2); Reactive lymphoid hyperplasia consistent with abscess formation (1); Reactive hyperplasia, ? infectious mononucleosis vs. non-specific tonsillar abscess (1)
Oklahoma (Oklahoma University Pathology Residents) - Large cell lymphoma (4); Infectious mononucleosis lymphadenitis (2)
Pennsylvania (Allegheny General Hospital) - Atypical lymphoid proliferation favor infectious mononucleosis and overlying yeast and bacteria
Pennsylvania (Lehigh Valley Hospital) - Necrotizing tonsillitis (Kikuchi's lymphadenitis)
Pennsylvania (Memorial Medical Center) - Hodgkin's disease (nodular lymphocytic type)
Puerto Rico (University of Puerto Rico) - Reactive nodule/infectious mononucleosis??
Rhode Island (RI Hospital Pathology Residents) - Atypical immunoblastic proliferation suspicious for infectious mononucleosis
Texas (ProPath Services) - Hodgkin's disease, mixed cellularity (2)
Texas (Scott & White Memorial Hospital) - Infectious mononucleosis with secondary fungal colonization
West Virginia (Greenbrier Valley Medical Center) - Reactive tonsillitis
Wisconsin (Meriter Health Services) - Infectious mononucleosis

Australia (North Queensland Pathology) - Reactive hyperplasia ? EBV infection. Fungal elements seen
Australia (Royal Prince Alfred Hospital) - Infectious mononucleosis
Canada (Foothills Medical Center) - Reactive (infectious mononucleosis)
Hong Kong (Hong Kong Baptist Hospital) - Atypical lymphoid hyperplasia consistent with infectious mononucleosis
Japan (Shimada City) - Infectious mononucleosis
Qatar (Hamad Medical Corporation) - High grade lymphoma

Case 1 - Diagnosis:

Infectious mononucleosis, tonsils and adenoids

Director's Note: A monospot test, done seven days after onset of illness, was positive, as was a test for Epstein-Barr virus. A CD30 stain marked the Reed-Sternberg-like cells, a finding previously reported in infectious mononucleosis lymphadenitis (AJSP, May, 1990;93#5:698-702) (drc)

T-61100, D-0410

Case 1 – References:

White PD, Thomas JM, Kangro HO, Bruce-Jones WD, et al. Predictions and Associations of Fatigue Syndromes and Mood Disorders That Occur After Infectious Mononucleosis. *Lancet* 2001; 358(9297):1946-1954.
Weber R, Hegenbarth V, Kaftan H, et al. Nasopharyngeal Endoscopy Adds to Reliability of Clinical Diagnosis of Infectious Mononucleosis. *J Laryngol Otol* 2001; 115(10):792-795.
Hiraki A, Fujii N, Masuda K, et al. Genetics of Epstein-Barr Virus Infection. *Biomed Pharmacother* 2001; 55(7):369-372.
Niedobitek G, Agathangelou A, Steven N., et al. Epstein-Barr Virus (EBV) in Infectious Mononucleosis: Detection of the Virus in Tonsillar B Lymphocytes but not in Desquamated Oropharyngeal Epithelial Cells. *Mol Pathol* 2000; 53(1):37-42.
Ehsan A, Fan H, Eagan PA, et al. Accumulation of p53 in Infectious Mononucleosis Tissues. *Hum Pathol* 2000; 31(11):1397-1403.
Hjalgrim H, Askling J, Sorensen P, et al. Risk of Hodgkin's Disease and Other Cancers After Infectious Mononucleosis. *J Natl Cancer Inst* 2000; 92(18):1522-1528.

Case No. 2, Accession No. 29289

May 2003

Bakersfield - Thecoma-fibroma
Bay Area - Fibrothecoma (3)
Baldwin Park (Kaiser Permanente) - Ovarian fibroma (1); Fibroma (1); Stromal leiomyoma (1)
Hayward/Fremont - Thecoma (thecoma-fibroma group tumor)
Laguna Beach (South Coast Medical Center) - Ovarian fibroma
Long Beach (Lakewood Regional Medical Center) - Fibrothecoma (5)
Monterey (Community Hospital of Monterey Peninsula) - Fibroma, cellular
Mountain View (El Camino Pathology Group) - Fibrothecoma
Oakland (Kaiser Permanente) - Fibroma (3)
Orange (Kaiser Permanente) - Fibroma (fibrothecoma) (2)
Orange (UCI Medical Center Residents) - Fibrothecoma, ovary
San Diego (Naval Medical Center) - Fibro-thecoma (1); Fibrothecoma (10); Fibroma (6)
Santa Barbara (Cottage Hospital) - Cellular fibroma
Santa Rosa (Santa Rosa Memorial Hospital) - Fibroma/thecoma (3)
Ventura - Ovarian fibroma (2)
Alaska (Alaska Pathology Laboratory) - Fibroma
Alaska (Alaska Native Medical Center) - Fibrothecoma
Arizona (Phoenix Memorial Hospital) - Fibroma, ovary
Florida (Baptist Hospital) - Fibro-thecoma (1); Thecoma (1); Fibroma/thecoma (1); Fibrothecoma (1)
Florida (Munroe Regional Medical Center) - Fibroma
Florida (Pathology Associates) - Fibroma
Florida (Winter Haven Hospital) - Fibroma
Indiana (Fort Wayne) - Cellular (mitotically active) ovarian fibrothecoma
Louisiana (Louisiana State University Medical Center) - Ovary, fibroma, thecoma

Maryland (Johns Hopkins Hospital Residents) - Cellular fibroma
Maryland (National Naval Medical Center) - Cellular fibroma
Maryland (University of Maryland) - Fibrothecoma
Massachusetts (New England Medical Center Residents) - Fibrothecoma
Michigan (Oakwood Hospital) - Fibroma
Nebraska (Creighton University School of Medicine Residents) - Ovarian fibroma
New Jersey (Overlook Hospital) - Cellular fibroma
New York (Long Island Jewish Medical Center) - Fibroma/thecoma, ovary
New York (Nassau County Medical Center) - Ovarian fibroma
New York (Stony Brook University Hospital Residents) - Fibrothecoma
New York (Westchester Medical Center) - Fibro-thecoma of ovary
North Carolina (Mountain Area Pathology) - Fibroma (4)
Oklahoma (Oklahoma University Pathology Residents) - Cellular fibroma
Pennsylvania (Allegheny General Hospital) - Fibrothecoma
Pennsylvania (Lehigh Valley Hospital) - Thecoma
Pennsylvania (Memorial Medical Center) - Fibrothecoma
Puerto Rico (University of Puerto Rico) - Fibroma, ovary/fibrothecoma
Rhode Island (RI Hospital Pathology Residents) - Thecoma
Texas (ProPath Services) - Thecoma (2)
Texas (Scott & White Memorial Hospital) - Ovarian fibroma
West Virginia (Greenbrier Valley Medical Center) - Fibro-thecoma
Wisconsin (Meriter Health Services) - Fibro-thecoma
Australia (North Queensland Pathology) - Thecofibroma
Australia (Royal Prince Alfred Hospital) - Thecoma
Canada (Foothills Medical Center) - Fibrothecoma
Hong Kong (Hong Kong Baptist Hospital) - Fibroma
Japan (Shimada City) - Fibroma
Qatar (Hamad Medical Corporation) - Fibrothecoma

Case 2 - Diagnosis:

Fibrothecoma, ovary
 T-86922, M-86000

Case 2 - References:

Troiano RN, Lazzarini KM, Scoutt LM, et al. Fibroma and Fibrothecoma of the Ovary. MR Imaging Findings. *Radiol* 1997; 204(3):795-798.
 Sivanesaratnam V, Dutta R and Jayalakshmi P. Ovarian Fibroma. Clinical and Histopathological Characteristics. *Int J Gynaecol Obstet* 1990; 33(3):243-247.
 Tilman AJ and Haffajee Z. Sclerosing Stromal Tumors, Thecomas, and Fibromas of the Ovary. An Immunohistochemical Profile. *Int J Gynecol Pathol* 1999; 18(3):254-258.
 Young RH and Scully RE. Differential Diagnosis of Ovarian Tumors Based Primarily on Their Patterns and Cell Types. *Sem Diagn Pathol* 2001; 18(3):161-235.

Case No. 3, Accession No. 29446

May 2003

Bakersfield - Yolk sac tumor
Bay Area - Clear cell tumor of low malignant potential (2); Clear cell carcinoma (1)
Baldwin Park (Kaiser Permanente) - Clear cell carcinoma (3)
Hayward/Fremont - Clear cell carcinoma
Laguna Beach (South Coast Medical Center) - Clear cell carcinoma
Long Beach (Lakewood Regional Medical Center) - Adenocarcinoma, clear cell type (5)
Monterey (Community Hospital of Monterey Peninsula) - Clear cell carcinoma
Mountain View (El Camino Pathology Group) - Clear cell adenocarcinoma
Oakland (Kaiser Permanente) - Clear cell carcinoma (3)

Orange (Kaiser Permanente) - Clear cell carcinoma (2)
Orange (UCI Medical Center Residents) - Clear cell carcinoma, ovary
San Diego (Naval Medical Center) - Clear cell carcinoma
Santa Barbara (Cottage Hospital) - Clear cell carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Clear cell carcinoma (3)
Ventura - Endometrioid adenocarcinoma (2)
Alaska (Alaska Pathology Laboratory) - Clear cell carcinoma
Alaska (Alaska Native Medical Center) - Clear cell carcinoma
Arizona (Phoenix Memorial Hospital) - Clear cell carcinoma
Florida (Baptist Hospital) - Clear cell carcinoma (4)
Florida (Munroe Regional Medical Center) - Clear cell adenocarcinoma
Florida (Pathology Associates) - Clear cell carcinoma
Florida (Winter Haven Hospital) - Mucinous cystadenocarcinoma
Indiana (Fort Wayne) - Clear cell adenocarcinoma of ovary
Louisiana (Louisiana State University Medical Center) - Ovary, carcinoma, clear cell
Maryland (Johns Hopkins Hospital Residents) - Clear cell carcinoma of the ovary
Maryland (National Naval Medical Center) - Clear cell carcinoma
Maryland (University of Maryland) - Clear cell carcinoma
Massachusetts (New England Medical Center Residents) - Clear cell carcinoma
Michigan (Oakwood Hospital) - Clear cell carcinoma
Nebraska (Creighton University School of Medicine Residents) - Yolk sac tumor (3); Clear cell carcinoma (4)
New Jersey (Overlook Hospital) - Clear cell adenocarcinoma
New York (Long Island Jewish Medical Center) - Clear cell carcinoma, ovary
New York (Nassau County Medical Center) - Clear cell carcinoma, ovary
New York (Stony Brook University Hospital Residents) - Clear cell carcinoma of ovary
New York (Westchester Medical Center) - Clear cell carcinoma arising in ovarian endometriosis
North Carolina (Mountain Area Pathology) - Struma ovarii (3); Clear cell carcinoma (1)
Oklahoma (Oklahoma University Pathology Residents) - Clear cell carcinoma of ovary
Pennsylvania (Allegheny General Hospital) - Endometrioid carcinoma
Pennsylvania (Lehigh Valley Hospital) - Papillary carcinoma in struma ovarii probably in cystic teratoma
Pennsylvania (Memorial Medical Center) - Clear cell carcinoma
Puerto Rico (University of Puerto Rico) - Clear cell carcinoma, ovary
Rhode Island (RI Hospital Pathology Residents) - Clear cell carcinoma
Texas (ProPath Services) - Clear cell (renal) carcinoma (2)
Texas (Scott & White Memorial Hospital) - Clear cell adenocarcinoma
West Virginia (Greenbrier Valley Medical Center) - Mucinous carcinoma
Wisconsin (Meriter Health Services) - Clear cell carcinoma of ovary
Australia (North Queensland Pathology) - Clear cell carcinoma
Australia (Royal Prince Alfred Hospital) - Clear cell carcinoma
Canada (Foothills Medical Center) - Clear cell carcinoma
Hong Kong (Hong Kong Baptist Hospital) - Clear cell carcinoma
Japan (Shimada City) - Clear cell carcinoma
Qatar (Hamad Medical Corporation) - Clear cell carcinoma

Case 3 - Diagnosis:

Clear cell carcinoma, ovary
 T-87000, M-83103

Case 3 - References:

Marth C, Kistic J, Kaern J, et al. Circulating Tumor Cells in the Peripheral Blood and Bone Marrow of Patients with Ovarian Carcinoma Do Not Predict Prognosis. *Cancer* 2002; 94(3):707-712.
 Silverberg SG. Ultrastructure and Histogenesis of Clear Cell Carcinoma of the Ovary. *Am J Obstet Gynecol* 1973; 115(3):394-400.
 Nolan LP and Heatley MK. The Value of Immunocytochemistry in Distinguishing Between Clear Cell Carcinoma of the Kidney and Ovary. *Int J Gynecol Pathol* 2001; 20(2):155-159.

Fujimura M, Hidaka T, Kataoka K, et al. Absence of Estrogen Receptor-Alpha Expression in Human Ovarian Clear Cell Adenocarcinoma Compared with Ovarian Serous, Endometrioid, and Mucinous Adenocarcinoma. *Am J Surg Pathol* 2001; 25(5):667-672.

Shimizu M, Nikaido T, Toki T, et al. Clear Cell Carcinoma Has An Expression Pattern of Cell Cycle Regulatory Molecules that is Unique Among Ovarian Adenocarcinomas. *Cancer* 1999; 85(3):669-677.

Case No. 4, Accession No. 29556

May 2003

Bakersfield - Krukenberg tumor

Bay Area - Metastatic adenocarcinoma (Krukenberg tumor) (3)

Baldwin Park (Kaiser Permanente) - Metastatic adenocarcinoma, signet ring cell type, Krukenberg) (1); Metastatic poorly differentiated signet ring carcinoma (Krukenberg's tumor) (1); Metastatic carcinoma (Krukenberg tumor) (1)

Hayward/Fremont - Krukenberg tumor (metastatic carcinoma of prob. gastric origin)

Laguna Beach (South Coast Medical Center) - Krukenberg tumor (metastatic signet ring cell carcinoma)

Long Beach (Lakewood Regional Medical Center) - Poorly differentiated signet-ring cell carcinoma (Krukenberg) (5)

Monterey (Community Hospital of Monterey Peninsula) - Metastatic mucinous carcinoma (Krukenberg)

Mountain View (El Camino Pathology Group) - Metastatic signet-ring cell adenocarcinoma "Krukenberg tumor"

Oakland (Kaiser Permanente) - Krukenberg tumor (3)

Orange (Kaiser Permanente) - Krukenberg tumor (2)

Orange (UCI Medical Center Residents) - Metastatic (signet ring cell carcinoma), ovaries (Krukenberg tumor)

San Diego (Naval Medical Center) - Metastatic signet ring cell adenocarcinoma (1); Krukenberg tumor

Santa Barbara (Cottage Hospital) - Metastatic signet ring cell carcinoma

Santa Rosa (Santa Rosa Memorial Hospital) - Krukenberg tumor (2); Metastatic signet ring adenocarcinoma (Krukenberg tumor)

Ventura - Krukenberg tumor (2)

Alaska (Alaska Pathology Laboratory) - Krukenberg tumor (signet ring cells)

Alaska (Alaska Native Medical Center) - Krukenberg tumor

Arizona (Phoenix Memorial Hospital) - Krukenberg tumor

Florida (Baptist Hospital) - Krukenberg tumor, metastatic signet ring cell adenocarcinoma (1); Adenocarcinoma with signet ring component (? metastatic) (1); Adenocarcinoma, signet ring?, Krukenberg (1); Signet ring cell adenocarcinoma (Krukenberg) (1)

Florida (Munroe Regional Medical Center) - Metastatic adenocarcinoma

Florida (Pathology Associates) - Mucinous carcinoma

Florida (Winter Haven Hospital) - Krukenberg tumor

Indiana (Fort Wayne) - Krukenberg tumor of ovaries

Louisiana (Louisiana State University Medical Center) - Krukenberg tumor

Maryland (Johns Hopkins Hospital Residents) - Metastatic adenocarcinoma with signet ring features, favor GI (stomach), primary vs. breast

Maryland (National Naval Medical Center) - Krukenberg tumor

Maryland (University of Maryland) - Krukenberg tumor

Massachusetts (New England Medical Center Residents) - Krukenberg tumor

Michigan (Oakwood Hospital) - Metastatic mucinous carcinoma

Nebraska (Creighton University School of Medicine Residents) - Metastatic signet cell ring carcinoma

New Jersey (Overlook Hospital) - Metastatic adenocarcinoma (probably appendiceal in origin)

New York (Long Island Jewish Medical Center) - Krukenberg tumor (metastatic carcinoma), ovary

New York (Nassau County Medical Center) - Krukenberg tumor

New York (Stony Brook University Hospital Residents) - Metastatic adenocarcinoma of ovary (Krukenberg tumor)

New York (Westchester Medical Center) - Metastatic adenocarcinoma (signet ring), Krukenberg tumor

North Carolina (Mountain Area Pathology) - Krukenberg tumor (metastatic adenocarcinoma) (2); Metastatic signet ring cell carcinoma (1); Metastatic adenocarcinoma (Krukenberg tumor)

Oklahoma (Oklahoma University Pathology Residents) - Metastatic signet ring adenocarcinoma (Krukenberg tumor)

Pennsylvania (Allegheny General Hospital) - Krukenberg tumor

Pennsylvania (Lehigh Valley Hospital) - Signet ring cell carcinoma probably metastatic

Pennsylvania (Memorial Medical Center) - Signet ring carcinoma

Puerto Rico (University of Puerto Rico) - Krukenberg tumor

Rhode Island (RI Hospital Pathology Residents) - Metastatic gastric carcinoma
Texas (ProPath Services) - Krukenberg tumor (metastatic signet ring adenocarcinoma to ovary) (1); Krukenberg, signet cell carcinoma (1)
Texas (Scott & White Memorial Hospital) - Metastatic signet ring cell adenocarcinoma
West Virginia (Greenbrier Valley Medical Center) - Krukenberg tumor
Wisconsin (Meriter Health Services) - Metastatic signet ring adenocarcinoma
Australia (North Queensland Pathology) - Krukenberg tumour
Australia (Royal Prince Alfred Hospital) - Krukenberg tumour
Canada (Foothills Medical Center) - Metastatic adenocarcinoma (Krukenberg tumor)
Hong Kong (Hong Kong Baptist Hospital) - Metastatic adenocarcinoma consistent with Krukenberg tumor
Japan (Shimada City) - Krukenberg tumor
Qatar (Hamad Medical Corporation) - Krukenberg tumour, metastatic mucin secreting carcinoma

Case 4 - Diagnosis:

Metastatic signet ring adenocarcinoma, ovary (so-called “Krukenberg tumor”)
T-86920, M-80103

Case 4 - References:

Mrad K, Morice P, Fabre A, et al. Krukenberg Tumor. A Clinico-Pathological Study of 15 Cases. *Ann Pathol* 2000; 20(3):202-206.
McGill F, Ritter DB, Rickard C, et al. Management of Krukenberg Tumors. An 11-Year Experience and Review of the Literature. *Prim Care Update Ob Syns* 1998; 5(4):157-158.
Kim HK, Heo DS, Bang YJ, et al. Prognostic Factors of Krukenberg’s Tumor. *Gynecol Oncol* 2001; 82(1):105-109.
Takenoue T, Yamada Y, Miyagawa S, et al. Krukenberg Tumor from Gastric Mucosal Carcinoma Without Lymphatic or Venous Invasion. Report of a Case. *Hepatogastroenterology* 2001; 48(40):1211-1214.
McGill FM, Ritter DB, Rickard CS, Kaleya RN, et al. Krukenberg Tumors. Can Management be Improved? *Gynecol Obstet Invest* 1999; 48(1):61-65.

Case No. 5, Accession No. 29300

May 2003

Bakersfield - Rhabdomyosarcoma
Bay Area - Rhabdomyosarcoma (3)
Baldwin Park (Kaiser Permanente) - Sarcoma (s/p ?chemo) possible rhabdomyosarcoma (1); Sarcoma?, possible rhabdomyosarcoma (1); Sarcoma (rhabdomyosarcoma) (1)
Hayward/Fremont - Rhabdomyosarcoma
Laguna Beach (South Coast Medical Center) - Pleomorphic rhabdomyosarcoma
Long Beach (Lakewood Regional Medical Center) - Rhabdomyosarcoma (5)
Monterey (Community Hospital of Monterey Peninsula) - Rhabdomyosarcoma
Mountain View (El Camino Pathology Group) - Embryonal rhabdomyosarcoma
Oakland (Kaiser Permanente) - Rhabdomyosarcoma (3)
Orange (Kaiser Permanente) - Sarcoma, favor rhabdo (2)
Orange (UCI Medical Center Residents) - Embryonal rhabdomyosarcoma, right upper eyelid
San Diego (Naval Medical Center) - Rhabdomyosarcoma (1); Anaplastic embryonal rhabdomyosarcoma (1)
Santa Barbara (Cottage Hospital) - Rhabdomyosarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Rhabdomyosarcoma (1); Embryonal rhabdomyosarcoma (2)
Ventura - Embryonal rhabdomyosarcoma (2)
Alaska (Alaska Pathology Laboratory) - Rhabdomyosarcoma
Alaska (Alaska Native Medical Center) - Rhabdomyosarcoma
Arizona (Phoenix Memorial Hospital) - Sebaceous carcinoma
Florida (Baptist Hospital) - Undifferentiated malignant tumor, rule out metastatic melanoma vs. rhabdomyosarcoma (1); Malignant adnexal tumor (1); Sebaceous carcinoma (1); Rhabdomyosarcoma (1)
Florida (Munroe Regional Medical Center) - Sebaceous carcinoma
Florida (Pathology Associates) - Rhabdomyoma, rhabdomyosarcoma
Florida (Winter Haven Hospital) - Sebaceous carcinoma
Indiana (Fort Wayne) - Rhabdomyosarcoma, upper eyelid
Louisiana (Louisiana State University Medical Center) - Embryonal rhabdomyosarcoma

Maryland (Johns Hopkins Hospital Residents) - Embryonal rhabdomyosarcoma with anaplasia
Maryland (National Naval Medical Center) - Rhabdomyosarcoma (embryonal/pleomorphic)
Maryland (University of Maryland) - Myosarcoma, probably embryonal rhabdomyosarcoma
Massachusetts (New England Medical Center Residents) - Rhabdomyosarcoma
Michigan (Oakwood Hospital) - Embryonal rhabdomyosarcoma
Nebraska (Creighton University School of Medicine Residents) - Rhabdomyosarcoma
New Jersey (Overlook Hospital) - Malignant tumor, NOS
New York (Long Island Jewish Medical Center) - Embryonal rhabdomyosarcoma, eyelid
New York (Nassau County Medical Center) - Rhabdomyosarcoma
New York (Stony Brook University Hospital Residents) - Rhabdomyosarcoma
New York (Westchester Medical Center) - Rhabdomyosarcoma
North Carolina (Mountain Area Pathology) - Rhabdomyosarcoma (4)
Oklahoma (Oklahoma University Pathology Residents) - Anaplastic rhabdomyosarcoma
Pennsylvania (Allegheny General Hospital) - Pleomorphic rhabdomyosarcoma
Pennsylvania (Lehigh Valley Hospital) - Rhabdomyosarcoma
Pennsylvania (Memorial Medical Center) - Malignant neoplasm (eccrine spiroadenoma/rhabdomyosarcoma)
Puerto Rico (University of Puerto Rico) - Rhabdomyosarcoma, embryonal
Rhode Island (RI Hospital Pathology Residents) - Embryonal rhabdomyosarcoma
Texas (ProPath Services) - Malignant peripheral nerve sheath tumor, ovary (2)
Texas (Scott & White Memorial Hospital) - Rhabdomyosarcoma
West Virginia (Greenbrier Valley Medical Center) - Rhabdomyosarcoma
Wisconsin (Meriter Health Services) - Pleomorphic rhabdomyosarcoma
Australia (North Queensland Pathology) - Rhabdomyosarcoma, embryonal type
Australia (Royal Prince Alfred Hospital) - (Embryonal) rhabdomyosarcoma
Canada (Foothills Medical Center) - Sebaceous carcinoma
Hong Kong (Hong Kong Baptist Hospital) - Rhabdomyosarcoma/undifferentiated sarcoma
Japan (Shimada City) - Anaplastic embryonal rhabdomyosarcoma
Qatar (Hamad Medical Corporation) - Embryonal rhabdomyosarcoma

Case 5 - Diagnosis:

Embryonal rhabdomyosarcoma, eyelid
 T-XX821, M-89103

Case 5 - References:

Kilpatrick SE, et al. Relationship of DNA Ploidy to Histology and Prognosis in Rhabdomyosarcoma. Comparison of Flow Cytometry and Image Analysis. *Cancer* 1994; 74(2):3227-3233.
 Nagar RC, et al. Rhabdomyosarcoma of the Head and Neck in Adults. A Study of 26 Patients. *Laryngoscope* 1993; 103(12):1362-1366.
 Simon JH, Paulino AC, Smith RB, et al. Prognostic Factors in Head and Neck Rhabdomyosarcoma. *Head Neck* 2002; 24(5):466-473.
 Raney RB, Anderson JR, Barr FG, et al. Rhabdomyosarcoma and Undifferentiated Sarcoma in the First Two Decades of Life. A Selective Review of Intergroup Rhabdomyosarcoma Study Group Experience and Rationale For Intergroup Rhabdomyosarcoma Study V. *J Pediatr Hematol Oncol* 2001; 23(4):215-220.
 Dagher R and Helman L. Rhabdomyosarcoma. An Overview. *Oncol* 1999; 4(1):34-44.

Case No. 6, Accession No. 29485

May 2003

Bakersfield - Gastrointestinal stromal tumor
Bay Area - Gastrointestinal stromal tumor "GIST" (3)
Baldwin Park (Kaiser Permanente) - GIST (? malignant) (1); GIST tumor (1); GIST (gastrointestinal stromal tumor, with malignant features) (1)
Hayward/Fremont - Leiomyoma (UMP)
Laguna Beach (South Coast Medical Center) - Malignant GIST
Long Beach (Lakewood Regional Medical Center) - Low grade malignant GIST (5)
Monterey (Community Hospital of Monterey Peninsula) - GIST

Mountain View (El Camino Pathology Group) - GI stromal tumor, malignant
Oakland (Kaiser Permanente) - GI stromal tumor (3)
Orange (Kaiser Permanente) - Stromal tumor, malignant GIST (2)
Orange (UCI Medical Center Residents) - GIST, esophagus
San Diego (Naval Medical Center) - Malignant gastrointestinal stromal tumor (2)
Santa Barbara (Cottage Hospital) - Gastrointestinal stromal tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Gastrointestinal stromal tumor, probably malignant (3)
Ventura - Gastrointestinal stromal tumor (2)
Alaska (Alaska Pathology Laboratory) - Leiomyosarcoma
Alaska (Alaska Native Medical Center) - GIST, malignant
Arizona (Phoenix Memorial Hospital) - Gastrointestinal stromal tumor
Florida (Baptist Hospital) - Gastrointestinal stromal tumor (4)
Florida (Munroe Regional Medical Center) - GIST tumor
Florida (Pathology Associates) - Malignant GIST
Florida (Winter Haven Hospital) - GIST of uncertain malignant potential
Indiana (Fort Wayne) - GIST of esophagus
Louisiana (Louisiana State University Medical Center) - Esophageal GIST
Maryland (Johns Hopkins Hospital Residents) - Malignant gastrointestinal stromal tumor
Maryland (National Naval Medical Center) - Gastrointestinal stromal tumor, malignant
Maryland (University of Maryland) - Gastrointestinal stromal tumor
Massachusetts (New England Medical Center Residents) - GIST
Michigan (Oakwood Hospital) - Gastrointestinal stromal tumor
Nebraska (Creighton University School of Medicine Residents) - GIST
New Jersey (Overlook Hospital) - GIST (low grade)
New York (Long Island Jewish Medical Center) - GIST, esophagus
New York (Nassau County Medical Center) - GIST
New York (Stony Brook University Hospital Residents) - Gastrointestinal stromal tumor of esophagus
New York (Westchester Medical Center) - Gastrointestinal stromal tumor
North Carolina (Mountain Area Pathology) - GIST probably malignant (1); GIST (3)
Oklahoma (Oklahoma University Pathology Residents) - Gastrointestinal stromal tumor, malignant
Pennsylvania (Allegheny General Hospital) - Gastrointestinal stromal tumor
Pennsylvania (Lehigh Valley Hospital) - Gastrointestinal stromal tumor
Pennsylvania (Memorial Medical Center) - GIST
Puerto Rico (University of Puerto Rico) - Gastrointestinal stromal tumor
Rhode Island (RI Hospital Pathology Residents) - Gastrointestinal stromal tumor
Texas (ProPath Services) - GIST (gastrointestinal stromal tumor) (1); Gastrointestinal stromal tumor, low malignant potential (1)
Texas (Scott & White Memorial Hospital) - GIST
West Virginia (Greenbrier Valley Medical Center) - Stromal tumor
Wisconsin (Meriter Health Services) - Gastrointestinal stromal tumor (27 cm) with necrosis
Australia (North Queensland Pathology) - GIST
Australia (Royal Prince Alfred Hospital) - Gastrointestinal stromal tumour
Canada (Foothills Medical Center) - GI stromal tumor
Hong Kong (Hong Kong Baptist Hospital) - Gastrointestinal stromal tumor
Japan (Shimada City) - Esophageal stromal tumor of borderline malignancy
Qatar (Hamad Medical Corporation) - Gastrointestinal stromal tumour, most probably malignant

Case 6 - Diagnosis:

Gastrointestinal stromal tumor, esophagus
 T-62000, M-88903

Case 6 - References:

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

Franquemont DW. Differentiation and Risk Assessment of Gastrointestinal Stromal Tumors. *Am J Clin Pathol* 1995; 103(1):41-47.
 Wang X, Mori I, Tang W, et al. Gastrointestinal Stromal Tumors. Are They of Cajal Cell Origin? *Ex Mol Pathol* 2002; 72(2):172-177.
 Miettinen M. New Challenges in the Identification of Gastrointestinal Stromal Tumors and Other Possible KIT-Driven Tumors. *Am J Clin Pathol* 2002; 117(2):183-185.
 Trupiano JK, Stewart RE, Misick C, et al. Gastric Stromal Tumors. A Clinicopathologic Study of 77 Cases with Correlation of Features with Nonaggressive and Aggressive Clinical Behaviors. *Am J Surg Pathol* 2002; 26(6):705-714.
 Lee JR, Joshi V, Griffin JW, et al. Gastrointestinal Autonomic Nerve Tumor. Immunohistochemical and Molecular Identity with Gastrointestinal Stromal Tumor. *Am J Surg Pathol* 2002; 26(3):396.
 Hasegawa T, Matsuno Y, Shimoda T, et al. Gastrointestinal Stromal Tumor. Consistent CD117 Immunostaining for Diagnosis, and Prognosis Classification Based on Tumor Size and MIB-1 Grade. *Hum Pathol* 2002; 33(6):669-676.

Case No. 7, Accession No. 29576

May 2003

Bakersfield - Solid cystic, papillary epithelial neoplasm
Bay Area - Solid cystic papillary epithelial neoplasm (3)
Baldwin Park (Kaiser Permanente) - Solid cystic papillary epithelial tumor (of pancreas) (3)
Hayward/Fremont - Solid pseudopapillary tumor
Laguna Beach (South Coast Medical Center) - Solid cystic papillary epithelial neoplasm
Long Beach (Lakewood Regional Medical Center) - Solid and papillary tumor of pancreas (5)
Monterey (Community Hospital of Monterey Peninsula) - Solid cystic papillary epithelial neoplasm vs. well-differentiated neuroendocrine tumor
Mountain View (El Camino Pathology Group) - Solid and cystic papillary tumor
Oakland (Kaiser Permanente) - Solid cystic papillary epithelial tumor (3)
Orange (Kaiser Permanente) - Solid pseudopapillary tumor (2)
Orange (UCI Medical Center Residents) - Solid pseudopapillary tumor, pancreas
San Diego (Naval Medical Center) - Pancreatic endocrine neoplasm (1); Solid and papillary epithelial neoplasm (1)
Santa Barbara (Cottage Hospital) - Papillary and solid epithelial neoplasm of pancreas
Santa Rosa (Santa Rosa Memorial Hospital) - Solid pseudopapillary tumor (3)
Ventura - Borderline pancreatic endocrine tumor (2)
Alaska (Alaska Pathology Laboratory) - PSEN
Alaska (Alaska Native Medical Center) - Solid pseudopapillary tumor
Arizona (Phoenix Memorial Hospital) - Solid pseudopapillary tumor
Florida (Baptist Hospital) - Papillary pseudopapillary tumor (1); Solid pseudopapillary tumor (papillary cystic tumor) (1); Papillary and solid neoplasm (PSEN) (1); Solid cystic papillary epithelial neoplasm (1)
Florida (Munroe Regional Medical Center) - Acinar cell carcinoma
Florida (Pathology Associates) - Solid pseudopapillary tumor of the pancreas
Florida (Winter Haven Hospital) - Pseudopapillary solid and cystic neoplasm
Indiana (Fort Wayne) - Solid papillary tumor of pancreas
Louisiana (Louisiana State University Medical Center) - Pancreas solid pseudopapillary carcinoma
Maryland (Johns Hopkins Hospital Residents) - Favor Hammoudi tumor (so-called solid pseudopapillary tumor of the pancreas),
 DDX: includes pancreatic neuroendocrine neoplasm
Maryland (National Naval Medical Center) - Solid pseudopapillary tumor
Maryland (University of Maryland) - Solid pseudopapillary (cystic) tumor
Massachusetts (New England Medical Center Residents) - Solid pseudopapillary tumor
Michigan (Oakwood Hospital) - Solid cystic tumor of pancreas
Nebraska (Creighton University School of Medicine Residents) - Islet cell tumor
New Jersey (Overlook Hospital) - Solid pseudopapillary neoplasm
New York (Long Island Jewish Medical Center) - Solid pseudopapillary tumor, pancreas
New York (Nassau County Medical Center) - Papillary pseudocystic solid tumor
New York (Stony Brook University Hospital Residents) - Neuroendocrine tumor of pancreas
New York (Westchester Medical Center) - Solid pseudopapillary tumor of pancreas
North Carolina (Mountain Area Pathology) - Solid pseudopapillary tumor (4)
Oklahoma (Oklahoma University Pathology Residents) - Solid pseudopapillary tumor of the pancreas

Pennsylvania (Allegheny General Hospital) - Solid and papillary tumor
Pennsylvania (Lehigh Valley Hospital) - Papillary and solid epithelial neoplasm
Pennsylvania (Memorial Medical Center) - Solid cystic papillary neoplasm
Puerto Rico (University of Puerto Rico) - Solid pseudopapillary tumor
Rhode Island (RI Hospital Pathology Residents) - Solid pseudopapillary tumor
Texas (ProPath Services) - Carcinoid tumor (2)
Texas (Scott & White Memorial Hospital) - Pancreatic neuroendocrine tumor
West Virginia (Greenbrier Valley Medical Center) - Endocrine carcinoma
Wisconsin (Meriter Health Services) - Solid cystic papillary epithelial neoplasm of pancreas
Australia (North Queensland Pathology) - Solid pseudopapillary tumour
Australia (Royal Prince Alfred Hospital) - Papillary and solid epithelial neoplasm
Canada (Foothills Medical Center) - Solid pseudopapillary tumor
Hong Kong (Hong Kong Baptist Hospital) - Pancreatic neuroendocrine tumor/papillary adenocarcinoma
Japan (Shimada City) - Endocrine tumor of borderline malignancy
Qatar (Hamad Medical Corporation) - Neuroendocrine tumour, low grade

Case 7 - Diagnosis:

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

Case 7 - References:

Klimsta DS, Wenig BM and Heffess CS. Solid-Pseudopapillary Tumor of the Pancreas. A Typically Cystic Carcinoma of Low Malignant Potential. *Semin Diagn Pathol* 2000; 17(1):66-80.
 Muller-Hocker J, Zietz CH and Sendelhofert A. Deregulated Expression of Cell Cycle-Associated Proteins in Solid Pseudopapillary Tumor of the Pancreas. *Mod Pathol* 2001; 14(2):47-53.
 Notohara K, Hamazaki S, Tsukayama C, et al. Solid-Pseudopapillary Tumor of the Pancreas. Immunohistochemical Localization of Neuroendocrine Markers and CD10. *Am J Surg Pathol* 2000; 24(10):1361-1371.
 Maitra A, Weinberg AG, Schneider N, et al. Detection of t(11;22)(q24;q12) Translocation and EWS-FLI-1 Fusion Transcript in a Case of Solid Pseudopapillary Tumor of the Pancreas. *Pediatr Dev Pathol* 2000; 3(6):603-605.
 Yoon DY, Hines OJ, Bilchik AJ, et al. Solid and Papillary Epithelial Neoplasms of the Pancreas. Aggressive Resection for Cure. *Am Surg* 2001; 67(12):1195-1199.

Case No. 8, Accession No. 29510

May 2003

Bakersfield - Mesenteric fibromatosis
Bay Area - Mesenteric fibromatosis (3)
Baldwin Park (Kaiser Permanente) - Intra-abdominal fibromatosis (desmoid) (1); Desmoid tumor (2)
Hayward/Fremont - Mesenteric fibromatosis
Laguna Beach (South Coast Medical Center) - Mesenteric fibromatosis
Long Beach (Lakewood Regional Medical Center) - Mesenteric fibromatosis (5)
Monterey (Community Hospital of Monterey Peninsula) - Fibromatosis
Mountain View (El Camino Pathology Group) - Fibromatosis
Oakland (Kaiser Permanente) - Mesenteric fibromatosis (3)
Orange (Kaiser Permanente) - Mesenteric fibromatosis (2)
Orange (UCI Medical Center Residents) - Intra-abdominal fibromatosis, small bowel mesentery
San Diego (Naval Medical Center) - Intra-abdominal fibromatosis (1); Mesenteric fibromatosis (1)
Santa Barbara (Cottage Hospital) - Mesenteric fibromatosis
Santa Rosa (Santa Rosa Memorial Hospital) - Mesenteric fibromatosis (3)
Ventura - Mesenteric fibromatosis (2)
Alaska (Alaska Pathology Laboratory) - Fibromatosis
Alaska (Alaska Native Medical Center) - Aggressive mesenteric fibromatosis/desmoid
Arizona (Phoenix Memorial Hospital) - Desmoid fibromatosis
Florida (Baptist Hospital) - Intestinal fibromatosis (desmoid tumor) (1); Desmoid tumor (3)
Florida (Munroe Regional Medical Center) - Desmoid

Florida (Pathology Associates) - Mesenteric fibromatosis
Florida (Winter Haven Hospital) - Mesenteric fibromatosis
Indiana (Fort Wayne) - Gastric mesenteric fibromatosis (desmoid), abdominal
Louisiana (Louisiana State University Medical Center) - Fibromatosis
Maryland (Johns Hopkins Hospital Residents) - Mesenteric fibromatosis (could confirm with B catenin immunostian) DDx: includes GIST (CK1T, CD34+) and SFT
Maryland (National Naval Medical Center) - Mesenteric fibromatosis
Maryland (University of Maryland) - Fibromatosis
Massachusetts (New England Medical Center Residents) - Fibromatosis
Michigan (Oakwood Hospital) - Fibromatosis
Nebraska (Creighton University School of Medicine Residents) - Aggressive mesenteric fibromatosis
New Jersey (Overlook Hospital) - Fibromatosis
New York (Long Island Jewish Medical Center) - Desmoid, small bowel mesentery
New York (Nassau County Medical Center) - Intra-abdominal fibromatosis
New York (Stony Brook University Hospital Residents) - Fibromatosis
New York (Westchester Medical Center) - Mesenteric fibromatosis
North Carolina (Mountain Area Pathology) - Reactive nodular fibrous pseudotumor (4)
Oklahoma (Oklahoma University Pathology Residents) - Intra-abdominal fibromatosis
Pennsylvania (Allegheny General Hospital) - Fibromatosis
Pennsylvania (Lehigh Valley Hospital) - Fibromatosis
Pennsylvania (Memorial Medical Center) - GIST/neurofibroma
Puerto Rico (University of Puerto Rico) - Fibromatosis
Rhode Island (RI Hospital Pathology Residents) - Mesenteric fibromatosis
Texas (ProPath Services) - Desmoid tumor (2)
Texas (Scott & White Memorial Hospital) - Inflammatory myofibroblastic tumor vs. mesenteric fibromatosis
West Virginia (Greenbrier Valley Medical Center) - Stromal tumor
Wisconsin (Meriter Health Services) - Fibromatosis
Australia (North Queensland Pathology) - Mesenteric fibromatosis
Australia (Royal Prince Alfred Hospital) - Fibromatosis
Canada (Foothills Medical Center) - Fibromatosis
Hong Kong (Hong Kong Baptist Hospital) - Fibromatosis
Japan (Shimada City) - Mesenteric fibromatosis
Qatar (Hamad Medical Corporation) - Mesenteric fibromatosis

Case 8 - Diagnosis:

Mesenteric fibromatosis, small bowel
 T-64000, M-76100

Case 8 – References:

Burke AP, Sobin LH, Shekitka KM, et al. Intra-Abdominal Fibromatosis. A Pathologic Analysis of 130 Tumors with Comparison of Clinical Sub-Groups. *Am J Surg Pathol* 1990; 14(4):335-341.
 Shons AR, Estrin S and Najarian JS. Gardner's Syndrome and Fibromatosis. Review of the Problem and Report of a Case. *Dis Colon Rectum* 1975; 18(2):128-133.
 Richards RC, Rogers SW and Gardner EJ. Spontaneous Mesenteric Fibromatosis in Gardner's Syndrome. *Cancer* 1981; 47:597-601.
 Bridge JA, Sreekantaiah C, Mouron B, et al. Clonal Chromosomal Abnormalities in Desmoid Tumors. Implications for Histogenesis. *Cancer* 1992; 69(2):430-436.
 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.

Case No. 9, Accession No. 29457

May 2003

Bakersfield - Angiosarcoma

Bay Area - Solitary fibrous tumor (3)

Baldwin Park (Kaiser Permanente) - Solitary fibrous tumor (consistent with polykaryon formation) (1); Hemangiopericytoma/solitary fibrous tumor with polykaryon formation (1); Solitary fibrous tumor with polykaryon formation (extraorbital giant cell angiofibroma) (1)

Hayward/Fremont - Liposarcoma

Laguna Beach (South Coast Medical Center) - Angiosarcoma

Long Beach (Lakewood Regional Medical Center) - Pleomorphic hyalinizing angiectatic tumor (5)

Monterey (Community Hospital of Monterey Peninsula) - Angiosarcoma

Mountain View (El Camino Pathology Group) - Giant cell fibroblastoma

Oakland (Kaiser Permanente) - Pleomorphic hyalinizing angiectatic tumor (3)

Orange (Kaiser Permanente) - Deep B-9 fibrous histiocytoma (2)

Orange (UCI Medical Center Residents) - Giant cell myofibroblastoma, buttock

San Diego (Naval Medical Center) - Giant cell angiofibroma (1); Pleomorphic hyalinizing angioectatic tumor of soft parts (1)

Santa Barbara (Cottage Hospital) - Typical decubital fibroplasia

Santa Rosa (Santa Rosa Memorial Hospital) - Angiosarcoma (2); Epithelioid hemangioma (angiolymphoid hyperplasia with eosinophilia) (1)

Ventura - Hemangiopericytoma (2)

Alaska (Alaska Pathology Laboratory) - Solitary fibrous tumor of soft tissue

Alaska (Alaska Native Medical Center) - Epithelioid hemangioendothelioma (2); Angiomatoid fibrous histiocytoma (1)

Arizona (Phoenix Memorial Hospital) - Dermatofibrosarcoma protuberans

Florida (Baptist Hospital) - Angiosarcoma (2); Malignant fibrous histiocytoma (2)

Florida (Munroe Regional Medical Center) - Solitary fibrous tumor

Florida (Pathology Associates) - DFSP

Florida (Winter Haven Hospital) - Solitary fibrous tumor (benign)

Indiana (Fort Wayne) - Solitary fibrous tumor of left buttock

Louisiana (Louisiana State University Medical Center) - Solitary fibrous tumor

Maryland (Johns Hopkins Hospital Residents) - Favor solitary fibrous tumor

Maryland (National Naval Medical Center) - Solitary fibrous tumor

Maryland (University of Maryland) - Solitary fibrous tumor

Massachusetts (New England Medical Center Residents) - Epithelioid hemangioendothelioma

Michigan (Oakwood Hospital) - Angiosarcoma

Nebraska (Creighton University School of Medicine Residents) - Giant cell angioblastoma

New Jersey (Overlook Hospital) - Fibrous histiocytoma

New York (Long Island Jewish Medical Center) - Pleomorphic hyalinizing angioectatic tumor of soft parts

New York (Nassau County Medical Center) - Solitary fibrous tumor, atypical

New York (Stony Brook University Hospital Residents) - Dermatofibrosarcoma protuberans, giant cell fibroblastoma

New York (Westchester Medical Center) - Dermatofibrosarcoma protuberans (DFSP)

North Carolina (Mountain Area Pathology) - Giant cell fibroblastoma (4)

Oklahoma (Oklahoma University Pathology Residents) - Pleomorphic hyalinizing angiectatic tumor (5); Solitary fibrous tumor (1)

Pennsylvania (Allegheny General Hospital) - Giant cell angiofibroma

Pennsylvania (Lehigh Valley Hospital) - Solitary fibrous tumor

Pennsylvania (Memorial Medical Center) - Solitary fibrous tumor/angiosarcoma

Puerto Rico (University of Puerto Rico) - Giant cell angiofibroma

Rhode Island (RI Hospital Pathology Residents) - Hemangiopericytoma or deep fibrous histiocytoma

Texas (ProPath Services) - Angiosarcoma (2)

Texas (Scott & White Memorial Hospital) - Solitary fibrous tumor

West Virginia (Greenbrier Valley Medical Center) - Angiosarcoma

Wisconsin (Meriter Health Services) - Solitary fibrous tumor of soft tissue

Australia (North Queensland Pathology) - Solitary fibrous tumour. DDx: Dermatofibrosarcoma protuberans

Australia (Royal Prince Alfred Hospital) - Pleomorphic hyalinizing angioectatic tumour of soft parts

Canada (Foothills Medical Center) - Giant cell angiofibroma

Hong Kong (Hong Kong Baptist Hospital) - Dermatofibrosarcoma protuberans

Japan (Shimada City) - DFSP

Qatar (Hamad Medical Corporation) - Solitary fibrous tumour

Case 9 - Diagnosis:

Solitary fibrous tumor, buttock
T-Y1600, M-91600

Consultation: Andrew L. Folpe, M.D., Emory University, Atlanta, Georgia. “Solitary fibrous tumor with polykaryon formation (extra-orbital giant cell angiofibroma), histologically benign”.

Case 9 – References:

Guillou L, Gebhard S and Coindre JM. Orbital and Extra-Orbital Giant Cell Angiofibroma. A Giant Cell-Rich Variant of a Solitary Fibrous Tumor? Clinicopathologic and Immunohistochemical Analysis of a Series of a Unifying Concept. *Am J Surg Pathol* 2000; 24(7):971-979.

Thomas R, Banerjee SS, Eyden BP, et al. A Study of Four Cases of Extra-Orbital Giant Cell Angiofibroma with Documentation of Some Unusual Features. *Histopathol* 2001; 39(4):390-396.

Case No. 10, Accession No. 29338

May 2003

Bakersfield - Hemangiopericytoma

Bay Area - Solitary fibrous tumor (2); Hemangiopericytoma (1)

Baldwin Park (Kaiser Permanente) - Solitary fibrous tumor (2); Hemangiopericytoma/solitary fibrous tumor (1)

Hayward/Fremont - Solitary fibrous tumor

Laguna Beach (South Coast Medical Center) - Solitary fibrous tumor

Long Beach (Lakewood Regional Medical Center) - Solitary fibrous tumor (5)

Monterey (Community Hospital of Monterey Peninsula) - Hemangiopericytoma

Mountain View (El Camino Pathology Group) - DFSP

Oakland (Kaiser Permanente) - Solitary fibrous tumor (3)

Orange (Kaiser Permanente) - Hemangiopericytoma (2)

Orange (UCI Medical Center Residents) - Hemangiopericytoma, retroperitoneum

San Diego (Naval Medical Center) - Solitary fibrous tumor (5); Hemangiopericytoma (12)

Santa Barbara (Cottage Hospital) - Solitary fibrous tumor

Santa Rosa (Santa Rosa Memorial Hospital) - Solitary fibrous tumor (hemangiopericytoma) (1); Malignant hemangiopericytoma (1); Hemangiopericytoma (1)

Ventura - Hemangiopericytoma

Alaska (Alaska Pathology Laboratory) - Hemangiopericytoma

Alaska (Alaska Native Medical Center) - Hemangiopericytoma (2); Solitary fibrous tumor (1)

Arizona (Phoenix Memorial Hospital) - Angiosarcoma

Florida (Baptist Hospital) - Hemangiopericytoma (4)

Florida (Munroe Regional Medical Center) - Low grade fibromyxoid tumor

Florida (Pathology Associates) - Solitary fibrous tumor

Florida (Winter Haven Hospital) - Hemangiopericytoma

Indiana (Fort Wayne) - Hemangiopericytoma of retroperitoneum

Louisiana (Louisiana State University Medical Center) - Solitary fibrous tumor vs. hemangiopericytoma

Maryland (Johns Hopkins Hospital Residents) - Solitary fibrous tumor vs. gastrointestinal stromal tumor (would perform CKIT immunostain to differentiate)

Maryland (National Naval Medical Center) - Hemangiopericytoma

Maryland (University of Maryland) - Favor hemangiopericytoma vs. solitary fibrous tumor

Massachusetts (New England Medical Center Residents) - Hemangiopericytoma

Michigan (Oakwood Hospital) - Extra gastrointestinal stromal tumor, malignant

Nebraska (Creighton University School of Medicine Residents) - Angiosarcoma

New Jersey (Overlook Hospital) - Hemangiopericytoma, indeterminate biological potential

New York (Long Island Jewish Medical Center) - Solitary fibrous tumor (hemangiopericytoma-like pattern), retroperitoneum

New York (Nassau County Medical Center) - Hemangiopericytoma

New York (Stony Brook University Hospital Residents) - Solitary fibrous tumor

New York (Westchester Medical Center) - Solitary fibrous tumor (hemangiopericytoma type)

North Carolina (Mountain Area Pathology) - Solitary fibrous tumor (3)
Oklahoma (Oklahoma University Pathology Residents) - Hemangiopericytoma
Pennsylvania (Allegheny General Hospital) - Hemangiopericytoma
Pennsylvania (Lehigh Valley Hospital) - Solitary fibrous tumor
Pennsylvania (Memorial Medical Center) - Hemangiopericytoma
Puerto Rico (University of Puerto Rico) - Hemangiopericytoma/solitary fibrous tumor
Rhode Island (RI Hospital Pathology Residents) - Solitary fibrous tumor
Texas (ProPath Services) - Hemangiopericytoma (2)
Texas (Scott & White Memorial Hospital) - Hemangiopericytoma
West Virginia (Greenbrier Valley Medical Center) - Solitary fibrous tumor
Wisconsin (Meriter Health Services) - Hemangiopericytoma
Australia (North Queensland Pathology) - Hemangiopericytoma
Australia (Royal Prince Alfred Hospital) - Solitary fibrous tumor
Canada (Foothills Medical Center) - Solitary fibrous tumor
Hong Kong (Hong Kong Baptist Hospital) - Hemangiopericytoma
Japan (Shimada City) - Hemangiopericytoma
Qatar (Hamad Medical Corporation) - Hemangioendothelioma, spindle cell variant

Case 10 - Diagnosis:

Hemangiopericytoma/solitary fibrous tumor, intra-abdominal

Directors Note: Many soft tissue tumor authorities are now viewing hemangiopericytoma and solitary fibrous tumors as ends of a morphologic spectrum, and that they may actually be the same neoplasm. (drc)

T-Y4100, M-91503

Case 10 - References:

Gad D and Johannsen HG. Intraabdominal Hemangiopericytoma. Diagnosed During Surgery for Suspected Acute Appendicitis. *Ugeska Laeger* 1999; 161(32):4519. (Danish)
 Hoekman K, van Doorn J, Gloudemans T, Maassen JA, et al. Hypoglycemia Associated with the Production of Insulin-Like Growth Factor II and Insulin-Like Growth Factor Binding Protein 6 by a Haemangiopericytoma. *Clin Endocrinol* 1999; 51(2): 247-253.
 Nemes Z. Differentiation Markers in Hemangiopericytoma. *Cancer* 1992; 69(1):133-140.
 Folpe AL, Devaney K and Weiss SW. Lipomatous Hemangiopericytoma. A Rare Variant of Hemangiopericytoma that May Be Confused with Liposarcoma. *Am J Surg Pathol* 1999; 23(10):1201-1207.
 Espat NJ, Lewis JJ, Leung D, et al. Conventional Hemangiopericytoma. Modern Analysis of Outcome. *Cancer* 2002; 95(8):1746-1751.