

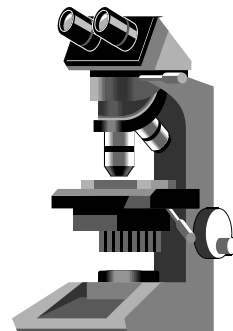


CALIFORNIA
TUMOR TISSUE REGISTRY

SOFT TISSUE PATHOLOGY

Minutes – Subscription A

April, 2003



SUGGESTED READING (General Topics from Recent Literature):

Adult Soft Tissue Ewing Sarcoma or Primitive Neuroectodermal Tumors. Predictors of Survival? Martin RCG II and Brennan MF. *Arch Surg* 2003; 138:281-285.

The Future of Cancer Management. Translating the Genome, Transcriptome, and Proteome. Yeatman TJ. *Annals of Surg Oncol* 2003; 10(1):7-14.

Cutaneous Wound Healing. Singer AJ and Clark RAF. *New Eng J of Med* 1999; 738-745.

Diagnostic Value of HMB-45 and Anti-Melan A Staining of Sentinel Lymph Nodes With Isolated Positive Cells. Mahmood MN, Lee MW, et al. *Mod Pathol* 2002; 15:1288-1293.

Natural History of Benign Solid and Cystic Thyroid Nodules. Alexander EK, Hurwitz S, et al. *Ann Intern Med* 2003; 138:315-318.

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FILE DIAGNOSES

CTTR Subscription A

April 2003

Case 1:

Intramuscular myxoma, arm
T-Y8000, M-88400

Case 2:

Myxoid lipoma (“myxolipoma”), back
T-Y1100, M-88520

Case 3:

Cardiac myxoma (“atrial myxoma”), left atrium
T-32100, M-88400

Case 4:

Myosarcoma, probably of cardiac muscle origin (“rhabdomyosarcoma”), left atrium
T-32120, M-88953

Case 5:

Leiomyosarcoma, stomach
T-63000, M-88903

Case 6:

Alveolar rhabdomyosarcoma, leg
T-Y9400, M-89003

Case 7:

Diffuse giant tumor of tendon sheath, heel
T-Y9600, D-3350

Case 8:

Reactive papillary mesothelial hyperplasia, hernia sac
T-Y7000, M-72020

Case 9:

Pleomorphic leiomyosarcoma, kidney
T-71000, M-88903

Case 10:

Benign peripheral nerve sheath tumor, favor schwannoma, adrenal
T-93000, M-95400

Bakersfield - Myxoma
Baldwin Park (Kaiser Permanente) - Myxoma (3)
Bay Area - Myxoma (3)
Fontana - Myxoma
Hayward/Fremont - Focal mucinosis
Laguna Beach (South Coast Medical Center) - Myxoma
Long Beach - Myxoma (12)
Monterey (Community Hospital of Monterey Peninsula) - Cutaneous myxoma
Mountain View (El Camino Pathology Group) - Juxta-articular myxoma
Oakland (Kaiser Permanente) - Myxoma (4)
Orange (Orange County Medical Group) - Myxoma
Oakland (Oakland Hospital) - Myxoma
Sacramento (UC Davis Medical Center) - Myxoma
San Diego (Naval Medical Center) - Myxoma
San Francisco (SF General Hospital) - Myxoma
Santa Rosa (Santa Rosa Memorial Hospital) - Myxoma (3)
Ventura - Intramuscular myxoma (2)
Alaska (Alaska Pathology Laboratory) - Intramuscular myxoma
Alaska (Alaska Native Medical Center) - Myxoma
Arizona (Phoenix Memorial Hospital) - Myxoma
Florida (Munroe Regional Medical Center) - Myxoma
Florida (Pathology Associates) - Intramuscular myxoma
Florida (Winter Haven Hospital) - Myxoma
Illinois (Northwestern Memorial Hospital) - Mucinous cyst
Indiana (Ball Memorial Hospital) - Myxoma
Indiana (Fort Wayne) - Intramuscular myxoma, right arm
Kansas (University of Kansas Medical Center) - Myxoma
Louisiana (Louisiana State University Medical Center) - Myxoma
Maryland (Johns Hopkins Hospital Residents) - Myxoma (1); Intramuscular myxoma (1)
Maryland (National Naval Medical Center) - Juxta-articular myxoma (10)
Maryland (University of Maryland Residents) - Myxoma
Massachusetts (New England Medical Center Residents) - Low grade myxoid neoplasm
Michigan (St. Joseph Mercy Hospital) - Myxoma
New Jersey (Overlook Hospital) - Myxoma
New Mexico (University of New Mexico) - Myxoma
New York (Long Island Jewish Medical Center) - Myxoma of the right arm
New York (Nassau University Medical Center) - Myxoma, right arm
New York (Stony Brook University Hospital Residents) - Proliferative peribursitis
New York (Westchester Medical Center) - Soft tissue myxoma
North Carolina (Duke University Medical Center) - Myxoma
North Carolina (Mountain Area Pathology) - Juxta-articular myxoma (1); Myxoma (3)
Oklahoma (Oklahoma University Pathology Residents) - Myxoma (7); Low grade myxofibrosarcoma (1)
Pennsylvania (Allegheny General Hospital) - Myxoma
Pennsylvania (Centre Community Hospital) - Intramuscular myxoma
Pennsylvania (Memorial Medical Center) - Myxoma
Pennsylvania (UPMC Pathology) - Juxta-articular myxoma
Puerto Rico (University of Puerto Rico) - Ganglion cyst/myxoma
Rhode Island (Rhode Island Hospital Pathology Residents) - Myxoma
Texas (Houston) - Myxoma
Texas (ProPath Services) - Myxoma (juxta-articular) (1); Myxoma (1)
Texas (Scott & White Memorial Hospital) - Myxoma
West Virginia (Greenbrier Valley Medical Center) - Cyst myxoid (ganglion cyst)
Wisconsin (Meriter Health Services) - Myxoma
Australia (North Queensland Pathology Group) - Myxoma/low grade myxoid neoplasm
Canada (Foothills Medical Center) - Myxoma
Hong Kong (Hong Kong Baptist Hospital) - Myxoma
Japan (Yamanashi Medical University) - Intramuscular myxoma (2)
Qatar (Hamad Medical Corporation) - Myxoma

Case 1 - Diagnosis:

Intramuscular myxoma, arm

T-Y8000, M-88400

Case 1 – References:

- Allen PW. Myxoma Is Not a Single Entity. A Review of the Concept of Myxoma. *Ann Diagn Pathol* 2000; 4(2):99-123.
- Hashimoto H, Tsuneyoshi M, Daimaru Y, et al. Intramuscular Myxoma. A Clinicopathologic, Immunohistochemical and Electron Microscopic Study. *Cancer* 1986; 58(3):740-747.
- Nielsen GP, O'Connell JX and Rosenberg AE. Intramuscular Myxoma. A Clinicopathologic Study of 51 Cases with Emphasis on Hypercellular and Hypervascular Variants. *Am J Surg Pathol* 1998; 22(10):1222-1227.
- Silver WP, Harrelson JM and Scully SP. Intramuscular Myxoma. A Clinicopathologic Study of 17 Patients. *Clin Orthop* 2002; 403: 191-197.

Case No. 2, Accession No. 29362

April 2003

Bakersfield - Myxolipoma

Baldwin Park (Kaiser Permanente) - Myxoid liposarcoma (1); Myxoma (1); Myxolipoma (1)

Bay Area - Myxolipoma (3)

Fontana - Atypical lipomatous tumor

Hayward/Fremont - Lipoma with myxoid change

Laguna Beach (South Coast Medical Center) - Spindle cell lipoma

Long Beach - Myxolipoma (12)

Monterey (Community Hospital of Monterey Peninsula) - Myxolipoma

Mountain View (El Camino Pathology Group) - Myxoid lipoma

Oakland (Kaiser Permanente) - Myxolipoma (4)

Orange (Orange County Medical Group) - Myxolipoma

Oakland (Oakland Hospital) - Myxoid lipoma

Sacramento (UC Davis Medical Center) - Lipoma with myxoid change

San Diego (Naval Medical Center) - Spindle cell lipoma (9); Myxolipoma (4)

San Francisco (SF General Hospital) - Myxoid lipoma

Santa Rosa (Santa Rosa Memorial Hospital) - Myxoid lipoma (1); Myxolipoma (1); Myxolipoma (lipoma with myxoid change) (1)

Ventura - Atypical lipomatous tumor (2)

Alaska (Alaska Pathology Laboratory) - Myxoid lipoma

Alaska (Alaska Native Medical Center) - Myxolipoma

Arizona (Phoenix Memorial Hospital) - Atypical lipomatous tumor/well-differentiated liposarcoma

Florida (Munroe Regional Medical Center) - Myxoid degeneration

Florida (Pathology Associates) - Myxoid lipoma

Florida (Winter Haven Hospital) - Myxoma

Illinois (Northwestern Memorial Hospital) - Myxoid lipoma

Indiana (Ball Memorial Hospital) - Myxoid lipoma

Indiana (Fort Wayne) - Myxoid lipoma, back

Kansas (University of Kansas Medical Center) - Myxolipoma

Louisiana (Louisiana State University Medical Center) - Lipoma with spindle cell and myxoid features

Maryland (Johns Hopkins Hospital Residents) - Myxolipoma (1); Favor angiomyxolipoma (1)

Maryland (National Naval Medical Center) - Myxoid lipoma (myxolipoma) (10)

Maryland (University of Maryland Residents) - Myxolipoma

Massachusetts (New England Medical Center Residents) - Lipoma with myxoid change

Michigan (St. Joseph Mercy Hospital) - Lipoma variant with myxoid and spindle cell patterns

New Jersey (Overlook Hospital) - Myxolipoma

New Mexico (University of New Mexico) - Chondroid lipoma

New York (Long Island Jewish Medical Center) - Myxoid lipoma of the back

New York (Nassau University Medical Center) - Myxolipoma, back

New York (Stony Brook University Hospital Residents) - Hibernoma

New York (Westchester Medical Center) - Myxolipoma

North Carolina (Duke University Medical Center) - Myxoid fibrolipoma

North Carolina (Mountain Area Pathology) - Myxoid lipoma (4)

Oklahoma (Oklahoma University Pathology Residents) - Spindle cell lipoma

Pennsylvania (Allegheny General Hospital) - Myxolipoma

Pennsylvania (Centre Community Hospital) - Myxolipoma

Pennsylvania (Memorial Medical Center) - Myxoid liposarcoma
Pennsylvania (UPMC Pathology) - Myxolipoma
Puerto Rico (University of Puerto Rico) - Angiomyxolipoma
Rhode Island (Rhode Island Hospital Pathology Residents) - Myxolipoma or fibrolipoma with myxoid-change
Texas (Houston) - Chordoma, conventional
Texas (ProPath Services) - Mxolipoma (2)
Texas (Scott & White Memorial Hospital) - Spindle cell lipoma
West Virginia (Greenbrier Valley Medical Center) - Lipoma with myxoid changes
Wisconsin (Meriter Health Services) - Myxoid lipoma
Australia (North Queensland Pathology Group) - Myxoid lipoma
Canada (Foothills Medical Center) - Spindle cell lipoma
Hong Kong (Hong Kong Baptist Hospital) - Fat necrosis/atypical lipomatous tumor
Japan (Yamanashi Medical University) - Myxoid lipoma (1); Myxoid liposarcoma (1)
Qatar (Hamad Medical Corporation) - Lipoma with myxoid changes

Case 2 - Diagnosis:

Myxoid lipoma (“myxolipoma”), back
 T-Y1100, M-88520

Case 2 - References:

Guillou L and Coindre JM. Newly Described Adipocytic Lesions. *Semin Diagn Pathol* 2001; 18(4):238-249.
 Chitnis M, Steyn T, Koeppen P, et al. Differentiation of a Benign Myxolipoma from a Myxoid Liposarcoma by Tumour Karyotyping - A Diagnosis Missed. *Pediatr Surg Int* 2002; 18(1):83.
 Rubin BP and Dal Cin P. The Genetics of Lipomatous Tumors. *Semin Diagn Pathol* 2001; 18(4):286-293.
 Mentzel T. Cutaneous Lipomatous Neoplasms. *Semin Diagn Pathol* 2001; 18(4):250-257.
 Graadt van Roggen JF, Hogendoorn PC, and Fletcher CD. Myxoid Tumors of Soft Tissue. *Histopathol* 1999; 35(4):291-312.

Case No. 3, Accession No. 29465

April 2003

Bakersfield - Cardiac myxoma
Baldwin Park (Kaiser Permanente) - Myxoma (1); Atrial myxoma (2)
Bay Area - Myxoma (3)
Fontana - Cardiac myxoma
Hayward/Fremont - Cardiac myxoma
Laguna Beach (South Coast Medical Center) - Cardiac myxoma
Long Beach - Cardiac myxoma (12)
Monterey (Community Hospital of Monterey Peninsula) - Atrial myxoma
Mountain View (El Camino Pathology Group) - Atrial myxoma
Oakland (Kaiser Permanente) - Atrial myxoma (4)
Orange (Orange County Medical Group) - Atrial myxoma
Oakland (Oakland Hospital) - Atrial myxoma
Sacramento (UC Davis Medical Center) - Cardiac myxoma
San Diego (Naval Medical Center) - Cardiac myxoma
San Francisco (SF General Hospital) - Myxoma
Santa Rosa (Santa Rosa Memorial Hospital) - Myxoma (1); Atrial myxoma (2)
Ventura - Cardiac myxoma (2)
Alaska (Alaska Pathology Laboratory) - Atrial myxoma
Alaska (Alaska Native Medical Center) - Cardiac myxoma
Arizona (Phoenix Memorial Hospital) - Atrial myxoma
Florida (Munroe Regional Medical Center) - Atrial myxoma
Florida (Pathology Associates) - Myxoma
Florida (Winter Haven Hospital) - Atrial myxoma
Illinois (Northwestern Memorial Hospital) - Atrial myxoma
Indiana (Ball Memorial Hospital) - Atrial myxoma
Indiana (Fort Wayne) - Atrial myxoma, left atrium
Kansas (University of Kansas Medical Center) - Atrial myxoma
Louisiana (Louisiana State University Medical Center) - Myxoma, left atrium
Maryland (Johns Hopkins Hospital Residents) - Cardiac myxoma (1); Atrial myxoma (1)
Maryland (National Naval Medical Center) - Atrial (cardiac) myxoma (10)

Maryland (University of Maryland Residents) - Atrial myxoma
Massachusetts (New England Medical Center Residents) - Myxoma
Michigan (St. Joseph Mercy Hospital) - Myxoma
New Jersey (Overlook Hospital) - Atrial myxoma
New Mexico (University of New Mexico) - Cardiac myxoma
New York (Long Island Jewish Medical Center) - Myxoma of left atrium
New York (Nassau University Medical Center) - Cardiac myxoma
New York (Stony Brook University Hospital Residents) - Cardiac myxoma
New York (Westchester Medical Center) - Left atrial myxoma
North Carolina (Duke University Medical Center) - Cardiac myxoma
North Carolina (Mountain Area Pathology) - Atrial myxoma (3); Cardiac myxoma (1)
Oklahoma (Oklahoma University Pathology Residents) - Atrial myxoma
Pennsylvania (Allegheny General Hospital) - Atrial myxoma
Pennsylvania (Centre Community Hospital) - Cardiac myxoma
Pennsylvania (Memorial Medical Center) - Atypical myxoma
Pennsylvania (UPMC Pathology) - Cardiac myxoma
Puerto Rico (University of Puerto Rico) - Myxoma
Rhode Island (Rhode Island Hospital Pathology Residents) - Cardiac myxoma
Texas (Houston) - Atrial myxoma/low grade myxosarcoma
Texas (ProPath Services) - Atrial myxoma (2)
Texas (Scott & White Memorial Hospital) - Myxoma
West Virginia (Greenbrier Valley Medical Center) - Papillary fibroelastoma
Wisconsin (Meriter Health Services) - Cardiac myxoma
Australia (North Queensland Pathology Group) - Cardiac myxoma
Canada (Foothills Medical Center) - Cardiac myxoma
Hong Kong (Hong Kong Baptist Hospital) - Atrial myxoma
Japan (Yamanashi Medical University) - Cardiac myxoma, cardiac mesothelial/monocytic incidental cardiac excrescence (1)
Qatar (Hamad Medical Corporation) - Atrial myxoma

Case 3 - Diagnosis:

Cardiac myxoma (“atrial myxoma”), left atrium

T-32100, M-88400

Case 3 - References:

Grebenc ML, Rosado-De-Christenson ML, Green CE, et al. Cardiac Myxoma. Imaging Features in 83 Patients. *Radiograph* 2002; 22(3):673-689.
 Durgut K, Gormus N, Ozulku M, et al. Clinical Features and Surgical Treatment of Cardiac Myxoma. Report of 18 Cases. *Asian Cardiovasc Thorac Ann* 2002; 10(2):111-114.
 Miyamoto MI and Picard MH. Left Atrial Mass Caused by Metastatic Renal Cell Carcinoma. An Unusual Site of Tumor Involvement Mimicking Myxoma. *J Am Soc Echocardiogr* 2002; 15(8):847-848.
 Terracciano LM, Mhawech P, Suess K, et al. Calretinin as a Marker for Cardiac Myxoma. Diagnostic and Histogenetic Considerations. *Am J Clin Pathol* 2000; 114(5):754-759.

Case No. 4, Accession No. 29391

April 2003

Bakersfield - Rhabdomyosarcoma
Baldwin Park (Kaiser Permanente) - Rhabdomyosarcoma (embryonal type) (3)
Bay Area - Leiomyoma (with myxoid changes) of uncertain malignant potential (3)
Fontana - Rhabdomyosarcoma
Hayward/Fremont - Rhabdomyosarcoma
Laguna Beach (South Coast Medical Center) - Cardiac rhabdomyosarcoma
Long Beach - Rhabdomyosarcoma (12)
Monterey (Community Hospital of Monterey Peninsula) - Rhabdomyosarcoma, embryonal
Mountain View (El Camino Pathology Group) - Myxoid leiomyosarcoma
Oakland (Kaiser Permanente) - Embryonal rhabdomyosarcoma (4)
Orange (Orange County Medical Group) - Embryonal rhabdomyosarcoma
Oakland (Oakland Hospital) - Myxoid malignant fibrous histiocytoma
Sacramento (UC Davis Medical Center) - Rhabdomyosarcoma/myxoid leiomyosarcoma
San Diego (Naval Medical Center) - Cardiac rhabdomyosarcoma
San Francisco (SF General Hospital) - Rhabdomyosarcoma

Santa Rosa (Santa Rosa Memorial Hospital) - Rhabdomyosarcoma (2); Leiomyosarcoma, myxoid type (1)
Ventura - Cardiac myxoma (2)
Alaska (Alaska Pathology Laboratory) - Myosarcoma
Alaska (Alaska Native Medical Center) - Leiomyosarcoma
Arizona (Phoenix Memorial Hospital) - Rhabdomyosarcoma
Florida (Munroe Regional Medical Center) - Rhabdomyosarcoma
Florida (Pathology Associates) - Rhabdomyoma
Florida (Winter Haven Hospital) - Rhabdomyosarcoma
Illinois (Northwestern Memorial Hospital) - Sarcoma, unclassified
Indiana (Ball Memorial Hospital) - Rhabdomyosarcoma
Indiana (Fort Wayne) - Myxoid cardiac sarcoma, right atrium (myosarcoma)
Kansas (University of Kansas Medical Center) - Malignant myxoma
Louisiana (Louisiana State University Medical Center) - Myxoid epithelioid leiomyosarcoma
Maryland (Johns Hopkins Hospital Residents) - Myxoid MFH (1); High grade sarcoma-rhabdomyosarcoma vs. leiomyosarcoma (1)
Maryland (National Naval Medical Center) - Rhabdomyosarcoma (10)
Maryland (University of Maryland Residents) - Rhabdomyosarcoma, embryonal
Massachusetts (New England Medical Center Residents) - Embryonal rhabdomyosarcoma
Michigan (St. Joseph Mercy Hospital) - Rhabdomyosarcoma
New Jersey (Overlook Hospital) - Myxosarcoma
New Mexico (University of New Mexico) - Rhabdosarcoma
New York (Long Island Jewish Medical Center) - Left atrium, high grade sarcoma, favor rhabdomyosarcoma
New York (Nassau University Medical Center) - Rhabdomyosarcoma, left atria
New York (Stony Brook University Hospital Residents) - Rhabdomyosarcoma
New York (Westchester Medical Center) - Myxoid leiomyosarcoma
North Carolina (Duke University Medical Center) - Rhabdomyosarcoma
North Carolina (Mountain Area Pathology) - Cardiac sarcoma with muscle differentiation (1); Rhabdomyosarcoma (3)
Oklahoma (Oklahoma University Pathology Residents) - Embryonal rhabdomyosarcoma
Pennsylvania (Allegheny General Hospital) - Embryonal rhabdomyosarcoma
Pennsylvania (Centre Community Hospital) - Cardiac rhabdomyosarcoma
Pennsylvania (Memorial Medical Center) - Myxoid rhabdomyosarcoma
Pennsylvania (UPMC Pathology) - Pleomorphic and in part spindle (leiomyosarcomatous) rhabdomyosarcoma
Puerto Rico (University of Puerto Rico) - Rhabdomyosarcoma
Rhode Island (Rhode Island Hospital Pathology Residents) - Rhabdomyosarcoma
Texas (Houston) - Angiomyosarcoma
Texas (ProPath Services) - Myosarcoma, probably pleomorphic rhabdo type (1); Pleomorphic rhabdomyosarcoma (1)
Texas (Scott & White Memorial Hospital) - Rhabdomyosarcoma
West Virginia (Greenbrier Valley Medical Center) - Leiomyosarcoma
Wisconsin (Meriter Health Services) - Undifferentiated cardiac sarcoma
Australia (North Queensland Pathology Group) - Myxoid leiomyosarcoma
Canada (Foothills Medical Center) - Rhabdomyosarcoma
Hong Kong (Hong Kong Baptist Hospital) - Pleomorphic rhabdomyosarcoma
Japan (Yamanashi Medical University) - Malignant fibrous histiocytoma (1); Rhabdomyosarcoma (1)
Qatar (Hamad Medical Corporation) - Rhabdomyosarcoma, embryonal

Case 4 - Diagnosis:

Myosarcoma, probably of cardiac muscle origin (“rhabdomyosarcoma”), left atrium

T-32120, M-88953

Case 4 - References:

- Vitovskii RM. Surgical Treatment of Heart Malignant Tumors. *Klin Khir* 2002; 4:11-4.
- Clarke NR, Mohiaddin RH, Westaby S, et al. Multifocal Cardiac Leiomyosarcoma. Diagnosis and Surveillance By Transoesophageal Echocardiography and Contrast Enhanced Cardiovascular Magnetic Resonance. *Postgrad Med J* 2002; 78(922):492-493.
- Pins MR, Ferrell MA, Madsen JC, et al. Epithelioid and Spindle-Celled Leiomyosarcoma of the Heart. Report of 2 Cases and Review of the Literature. *Arch Pathol Lab Med* 1999; 123(9):782-788.
- Donsbeck AV, Ranchere D, Coindre JM, et al. Primary Cardiac Sarcomas. An Immunohistochemical and Grading Study with Long-Term Follow-Up of 24 Cases. *Histopathol* 1999; 34(4):295-304.
- Castorino F, Masiello P, Quattrocchi E, et al. Primary Cardiac Rhabdomyosarcoma of the Left Atrium. An Unusual Presentation. *Tex Heart Inst J* 2000; 27(2):206-208.

Bakersfield - Kaposi's sarcoma
Baldwin Park (Kaiser Permanente) - Leiomyosarcoma (GIST) (3)
Bay Area - Leiomyosarcoma (3)
Fontana - Leiomyosarcoma
Hayward/Fremont - Smooth muscle tumor, probably malignant
Laguna Beach (South Coast Medical Center) - Leiomyosarcoma (epithelioid)
Long Beach - Gastrointestinal stromal tumor, malignant (12)
Monterey (Community Hospital of Monterey Peninsula) - Leiomyosarcoma vs. STUMP
Mountain View (El Camino Pathology Group) - Leiomyosarcoma
Oakland (Kaiser Permanente) - Leiomyosarcoma (4)
Orange (Orange County Medical Group) - Smooth muscle tumor of uncertain malignant potential
Oakland (Oakland Hospital) - Inflammatory myofibroblastic tumor
Sacramento (UC Davis Medical Center) - Leiomyosarcoma/gastrointestinal stromal tumor
San Diego (Naval Medical Center) - Leiomyosarcoma (12); Malignant gastrointestinal tumor (2)
San Francisco (SF General Hospital) - Leiomyosarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Smooth muscle tumor of unknown malignant potential (1); Leiomyosarcoma (1)
Ventura - Leiomyosarcoma (2)
Alaska (Alaska Pathology Laboratory) - Malignant, gastric stromal tumor
Alaska (Alaska Native Medical Center) - Leiomyosarcoma
Arizona (Phoenix Memorial Hospital) - Leiomyosarcoma
Florida (Munroe Regional Medical Center) - Gastric stromal tumor
Florida (Pathology Associates) - Smooth muscle tumor of uncertain malignant potential
Florida (Winter Haven Hospital) - GIST, malignant
Illinois (Northwestern Memorial Hospital) - Leiomyosarcoma
Indiana (Ball Memorial Hospital) - Leiomyosarcoma
Indiana (Fort Wayne) - Leiomyosarcoma, stomach
Kansas (University of Kansas Medical Center) - Leiomyosarcoma
Louisiana (Louisiana State University Medical Center) - Well-differentiated leiomyosarcoma
Maryland (Johns Hopkins Hospital Residents) - MFH (1); Leiomyosarcoma, given the absence of CKIT (CD117) reactivity (1)
Maryland (National Naval Medical Center) - Leiomyosarcoma (10)
Maryland (University of Maryland Residents) - Leiomyosarcoma
Massachusetts (New England Medical Center Residents) - Inflammatory pseudotumor
Michigan (St. Joseph Mercy Hospital) - Rhabdomyosarcoma (2); Leiomyosarcoma (2)
New Jersey (Overlook Hospital) - Leiomyosarcoma
New Mexico (University of New Mexico) - Inflammatory myofibroblastic tumor
New York (Long Island Jewish Medical Center) - Leiomyosarcoma of the stomach
New York (Nassau University Medical Center) - Leiomyosarcoma, stomach
New York (Stony Brook University Hospital Residents) - Leiomyosarcoma
New York (Westchester Medical Center) - Epithelioid leiomyosarcoma
North Carolina (Duke University Medical Center) - Leiomyosarcoma
North Carolina (Mountain Area Pathology) - Probably malignant spindle cell gastric tumor (1); Leiomyosarcoma (3)
Oklahoma (Oklahoma University Pathology Residents) - Leiomyosarcoma
Pennsylvania (Allegheny General Hospital) - Inflammatory myofibroblastic tumor
Pennsylvania (Centre Community Hospital) - Gastric leiomyosarcoma
Pennsylvania (Memorial Medical Center) - High grade sarcoma, favor MFH
Pennsylvania (UPMC Pathology) - Leiomyosarcoma
Puerto Rico (University of Puerto Rico) - Leiomyosarcoma
Rhode Island (Rhode Island Hospital Pathology Residents) - Leiomyosarcoma
Texas (Houston) - Leiomyosarcoma
Texas (ProPath Services) - Leiomyosarcoma, epithelial type (epithelial leiomyosarcoma) (1); Leiomyosarcoma (1)
Texas (Scott & White Memorial Hospital) - Leiomyosarcoma
West Virginia (Greenbrier Valley Medical Center) - Gastrointestinal stromal tumor
Wisconsin (Meriter Health Services) - Smooth muscle neoplasm
Australia (North Queensland Pathology Group) - Gastrointestinal stromal tumor (GIST)
Canada (Foothills Medical Center) - Leiomyosarcoma
Hong Kong (Hong Kong Baptist Hospital) - Leiomyosarcoma
Japan (Yamanashi Medical University) - Leiomyosarcoma (1); Hemangiopericytoma (1)
Qatar (Hamad Medical Corporation) - Low grade leiomyosarcoma

Case 5 - Diagnosis:

Leiomyosarcoma, stomach

T-63000, M-88903

Case 5 - References:

- Shmulevich I, Hunt K, El-Naggar A, et al. Tumor Specific Gene Expression Profiles in Human Leiomyosarcoma. An Evaluation of Intratumor Heterogeneity. *Cancer* 2002; 94(7):2069-2075.
- Watanabe K. Leiomyosarcoma Versus Myofibrosarcoma. *Am J Surg Pathol* 2002; 26(3):393-396.
- Kobayashi TK, Katoh M, Watanabe S, et al. Intranuclear Cytoplasmic Inclusions in Gastric Leiomyosarcoma. *Diagn Cytopathol* 1998; 18(6):475-476.
- Hemmi A, Komiyama A, Ohno S, et al. Poorly Differentiated Desmin-Negative and Vimentin-Positive Leiomyosarcoma of the Stomach Examined by the Immunohistochemical and Quick-Freezing and Deep-Etching Methods. *Virchows Arch* 1998; 432(4):377-383.
- Koga H, Ochiai A, Nakanishi Y, et al. Reevaluation of Prognostic Factors in Gastric Leiomyosarcoma. *Am J Gastroenterol* 1995; 90(8):1307-1312.
- Miller TA. Leiomyosarcoma. Not All Gastric Malignancies Have a Dismal Prognosis. *Gastroenterol* 1993; 104(3):940-941.

Case No. 6, Accession No. 29399

April 2003

Bakersfield - Rhabdomyosarcoma

Baldwin Park (Kaiser Permanente) - Rhabdomyosarcoma (alveolar) (3)

Bay Area - PNET/extrasosseous Ewing's sarcoma (2); Synovial sarcoma vs. sarcoma, NOS (1)

Fontana - Alveolar rhabdomyosarcoma

Hayward/Fremont - Embryonal rhabdomyosarcoma

Laguna Beach (South Coast Medical Center) - Alveolar rhabdomyosarcoma

Long Beach - Alveolar rhabdomyosarcoma (12)

Monterey (Community Hospital of Monterey Peninsula) - PNET vs. sarcoma (rhabdomyo ?)

Mountain View (El Camino Pathology Group) - Alveolar rhabdomyosarcoma

Oakland (Kaiser Permanente) - Alveolar rhabdomyosarcoma (4)

Orange (Orange County Medical Group) - Small round blue cell tumor, favor rhabdomyosarcoma

Oakland (Oakland Hospital) - Alveolar rhabdomyosarcoma

Sacramento (UC Davis Medical Center) - Rhabdomyosarcoma, alveolar type

San Diego (Naval Medical Center) - Alveolar rhabdomyosarcoma

San Francisco (SF General Hospital) - Peripheral neuroepithelial tumor

Santa Rosa (Santa Rosa Memorial Hospital) - Large cell lymphoma, probably B-cell type (1); Malignant tumor, not otherwise specified (1); Rhabdomyosarcoma, alveolar type (1)

Ventura - Undifferentiated sarcoma (2)

Alaska (Alaska Pathology Laboratory) - Poorly differentiated renal cell malignant tumor DDx: Embryonal rhabdomyosarcoma, neuroblastoma, synovial sarcoma, extraskeletal Ewing's sarcoma etc.

Alaska (Alaska Native Medical Center) - Alveolar rhabdomyosarcoma

Arizona (Phoenix Memorial Hospital) - Malignant melanoma of soft parts

Florida (Munroe Regional Medical Center) - Rhabdomyosarcoma

Florida (Pathology Associates) - Alveolar rhabdomyosarcoma

Florida (Winter Haven Hospital) - Alveolar rhabdomyosarcoma

Illinois (Northwestern Memorial Hospital) - Alveolar rhabdomyosarcoma

Indiana (Ball Memorial Hospital) - Alveolar rhabdomyosarcoma

Indiana (Fort Wayne) - Alveolar rhabdomyosarcoma, right posterior leg

Kansas (University of Kansas Medical Center) - Lymphoma

Louisiana (Louisiana State University Medical Center) - Alveolar rhabdomyosarcoma solid variant

Maryland (Johns Hopkins Hospital Residents) - Rhabdomyosarcoma, alveolar type (1); Alveolar rhabdomyosarcoma, would confirm with desmin, myogenin and actin stains (1)

Maryland (National Naval Medical Center) - Alveolar rhabdomyosarcoma (9); Clear cell sarcoma (1)

Maryland (University of Maryland Residents) - Favor rhabdomyosarcoma

Massachusetts (New England Medical Center Residents) - Alveolar rhabdomyosarcoma

Michigan (St. Joseph Mercy Hospital) - Alveolar-rhabdomyosarcoma, alveolar soft parts sarcoma

New Jersey (Overlook Hospital) - Alveolar rhabdomyosarcoma

New Mexico (University of New Mexico) - Alveolar rhabdosarcoma

New York (Long Island Jewish Medical Center) - Rhabdomyosarcoma, alveolar type

New York (Nassau University Medical Center) - Alveolar rhabdomyosarcoma, leg

New York (Stony Brook University Hospital Residents) - Alveolar rhabdomyosarcoma

New York (Westchester Medical Center) - Alveolar rhabdomyosarcoma
North Carolina (Duke University Medical Center) - Alveolar rhabdomyosarcoma
North Carolina (Mountain Area Pathology) - Alveolar rhabdomyosarcoma (4)
Oklahoma (Oklahoma University Pathology Residents) - Alveolar rhabdomyosarcoma
Pennsylvania (Allegheny General Hospital) - Alveolar rhabdomyosarcoma
Pennsylvania (Centre Community Hospital) - Synovial sarcoma
Pennsylvania (Memorial Medical Center) - Alveolar rhabdomyosarcoma
Pennsylvania (UPMC Pathology) - Alveolar rhabdomyosarcoma
Puerto Rico (University of Puerto Rico) - Alveolar rhabdomyosarcoma
Rhode Island (Rhode Island Hospital Pathology Residents) - Alveolar rhabdomyosarcoma
Texas (Houston) - Alveolar rhabdomyosarcoma
Texas (ProPath Services) - Alveolar rhabdomyosarcoma (2)
Texas (Scott & White Memorial Hospital) - Alveolar rhabdomyosarcoma
West Virginia (Greenbrier Valley Medical Center) - Alveolar rhabdomyosarcoma
Wisconsin (Meriter Health Services) - Alveolar rhabdomyosarcoma
Australia (North Queensland Pathology Group) - Rhabdomyosarcoma
Canada (Foothills Medical Center) - Alveolar rhabdomyosarcoma
Hong Kong (Hong Kong Baptist Hospital) - Alveolar rhabdomyosarcoma/embryonal rhabdomyosarcoma
Japan (Yamanashi Medical University) - Rhabdomyosarcoma (1); Pleomorphic liposarcoma (1)
Qatar (Hamad Medical Corporation) - Alveolar rhabdomyosarcoma

Case 6 - Diagnosis:

Alveolar rhabdomyosarcoma, leg

T-Y9400, M-89003

Case 6 - References:

Anderson J, Gordon AJ, Pritchard-Jones K, Shipley J, et al. Genes Chromosomes and Rhabdomyosarcoma. *Cancer* 1999; 26(4):275-285.
 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.
 Mark HF, Brown S, Sun CL, et al. Fluorescent In Situ Hybridization Detection of HER-2/Neu Gene Amplification in Rhabdomyosarcoma. *Pathobiol* 1998; 66(2):59-63.
 Roberts I, Gordon A, Wang R, et al. Molecular Cytogenetic Analysis Consistently Identifies Translocations Involving Chromosomes 1, 2, and 15 in Five Embryonal Rhabdomyosarcoma Cell Lines and a PAX-FOXO1A Fusion Gene Negative Alveolar Rhabdomyosarcoma Cell Line. *Cytogenet Cell Genet* 2001; 95(3-4):134-142.
 Furlong MA, Mentzel T and Fanburg-Smith JC. Pleomorphic Rhabdomyosarcoma in Adults. A Clinicopathologic Study of 38 Cases with Emphasis on Morphologic Variants and Recent Skeletal Muscle-Specific Markers. *Mod Pathol* 2001; 14(6):595-603.

Case No. 7, Accession No. 29538

April 2003

Bakersfield - Giant cell tumor of tendon sheath
Baldwin Park (Kaiser Permanente) - PVNS (pigmented villonodular tenosynovitis) (3)
Bay Area - Xanthogranulomatous reaction (3)
Fontana - Soft tissue giant cell tumor of low malignant potential
Hayward/Fremont - Xanthogranuloma
Laguna Beach (South Coast Medical Center) - Giant cell tumor of tendon sheath (PVNS)
Long Beach - Pigmented nodular tenosynovitis (12)
Monterey (Community Hospital of Monterey Peninsula) - Localized giant cell tumor
Mountain View (El Camino Pathology Group) - Giant cell tumor of tendon sheath
Oakland (Kaiser Permanente) - MFH (4)
Orange (Orange County Medical Group) - Histiocytic lesion ?
Oakland (Oakland Hospital) - Giant cell tumor of tendon sheath
Sacramento (UC Davis Medical Center) - Giant cell tumor of tendon sheath
San Diego (Naval Medical Center) - Giant cell tumor of tendon sheath
San Francisco (SF General Hospital) - Giant cell tumor of tendon sheath
Santa Rosa (Santa Rosa Memorial Hospital) - Tenosynovial giant cell tumor (1); Diffuse type (1); Giant cell tumor of tendon sheath (1)
Ventura - Malignant fibrous histiocytoma (2)
Alaska (Alaska Pathology Laboratory) - Clear cell sarcoma (melanoma)

Alaska (Alaska Native Medical Center) - Giant cell tumor of tendon sheath
Arizona (Phoenix Memorial Hospital) - Xanthomatous malignant fibrous histiocytoma
Florida (Munroe Regional Medical Center) - Melanoma
Florida (Pathology Associates) - Giant cell tumor
Florida (Winter Haven Hospital) - Ganglioma
Illinois (Northwestern Memorial Hospital) - Pigmented villonodular synovitis
Indiana (Ball Memorial Hospital) - Benign fibrous histiocytoma
Indiana (Fort Wayne) - Pigmented villonodular synovitis, right heel
Kansas (University of Kansas Medical Center) - Giant cell tumor of tendon sheath
Louisiana (Louisiana State University Medical Center) - Giant cell tumor of tendon sheath
Maryland (Johns Hopkins Hospital Residents) - Pigmented villonodular synovitis (1); Diffuse tenosynovial giant cell tumor (1)
Maryland (National Naval Medical Center) - Diffuse tenosynovial giant cell tumor (7); Inflammatory myxohyaline tumor of distal extremity (3)
Maryland (University of Maryland Residents) - Pigmented villonodular synovitis
Massachusetts (New England Medical Center Residents) - Giant cell tumor of tendon sheath
Michigan (St. Joseph Mercy Hospital) - Giant cell tumor of tendon sheath
New Jersey (Overlook Hospital) - Giant cell tumor of tendon sheath
New Mexico (University of New Mexico) - Pigmented villonodular synovitis
New York (Long Island Jewish Medical Center) - Giant cell tumor of tendon sheath
New York (Nassau University Medical Center) - Malignant melanoma, right heel
New York (Stony Brook University Hospital Residents) - Giant cell tumor of tendon sheath
New York (Westchester Medical Center) - Giant cell tumor of tendon sheath
North Carolina (Duke University Medical Center) - Pigmented villonodular synovitis
North Carolina (Mountain Area Pathology) - Pigmented villonodular synovitis (3); Extra-articular pigmented villonodular synovitis (1)
Oklahoma (Oklahoma University Pathology Residents) - Pigmented villonodular tenosynovitis
Pennsylvania (Allegheny General Hospital) - Pigmented villonodular tenosynovitis
Pennsylvania (Centre Community Hospital) - Tenosynovial giant cell tumor, localized type (nodular tenosynovitis)
Pennsylvania (Memorial Medical Center) - PVN synovitis/giant cell tumor
Pennsylvania (UPMC Pathology) - PVNS (diffuse pigmented villonodular synovitis)
Puerto Rico (University of Puerto Rico) - Pigmented villonodular synovitis
Rhode Island (Rhode Island Hospital Pathology Residents) - Nodular tenosynovitis
Texas (Houston) - Ganglioneuroblastoma ?
Texas (ProPath Services) - Angiomatoid fibrous histiocytoma (2)
Texas (Scott & White Memorial Hospital) - Tenosynovial giant cell tumor
West Virginia (Greenbrier Valley Medical Center) - Fibroxanthosarcoma
Wisconsin (Meriter Health Services) - Giant cell tumor
Australia (North Queensland Pathology Group) - Giant cell tumor
Canada (Foothills Medical Center) - Giant cell tumor of tendon sheath
Hong Kong (Hong Kong Baptist Hospital) - Pigmented nodular synovitis
Japan (Yamanashi Medical University) - Reticulohistiocytoma (1); Malignant melanoma (1)
Qatar (Hamad Medical Corporation) - Pigmented villonodular synovitis

Case 7 - Diagnosis:

Diffuse giant cell tumor of tendon sheath, heel

T-Y9600, D-3350

Consultation: AFIP: "Giant cell tumor of tendon sheath, diffuse type."

Case 7 - References:

- Martin RC 2nd, Osborne DL, Edwards MJ, et al. Giant Cell Tumor of Tendon Sheath, Tenosynovial Giant Cell Tumor and Pigmented Villonodular Synovitis. Defining the Presentation, Surgical Therapy and Recurrence. *Oncol Rep* 2000; 7(2):413-419.
 Vogrinic GS, O'Connell JX and Gilks CB. Giant Cell Tumor of Tendon Sheath is a Polyclonal Cellular Proliferation. *Hum Pathol*; 1997; 28(7):815-819.
 Darling JM, Goldring SR, Harada Y, et al. Multinucleated Cells In Pigmented Villonodular Synovitis and Giant Cell Tumor of Tendon Sheath Express Features of Osteoclasts. *Am J Pathol* 1997; 150(4):1383-1393.
 Rowlands CG, Roland B, Hwang WS, et al. Diffuse-Variant Tenosynovial Giant Cell Tumor. A Rare and Aggressive Lesion. *Hum Pathol* 1994; 25(4):423-425.
 Kotwal PP, Gupta V, Malhotra R. Giant-Cell Tumour of the Tendon Sheath. Is Radiotherapy Indicated to Prevent Recurrence After Surgery? *J Bone Joint Surg Br* 2000; 82(4):571-573.

Bakersfield - Mesothelial hyperplasia (reactive mesothelium)
Baldwin Park (Kaiser Permanente) - Mesothelioma (well-differentiated, papillary) (1); Well-differentiated papillary mesothelioma (1); Papillary mesothelioma (1)
Bay Area - Papillary serous-mesothelial hyperplasia (vs. adenofibromatous proliferation) (3)
Fontana - Mesothelial hyperplasia
Hayward/Fremont - Papillary mesothelial hyperplasia
Laguna Beach (South Coast Medical Center) - Papillary mesothelial hyperplasia
Long Beach - Well-differentiated papillary mesothelioma (12)
Monterey (Community Hospital of Monterey Peninsula) - Well-differentiated papillary mesothelioma
Mountain View (El Camino Pathology Group) - Papillary mesothelial hyperplasia
Oakland (Kaiser Permanente) - Benign papillary mesothelioma (4)
Orange (Orange County Medical Group) - Papillary mesothelial hyperplasia
Oakland (Oakland Hospital) - Well-differentiated papillary mesothelioma
Sacramento (UC Davis Medical Center) - Papillary mesothelial hyperplasia
San Diego (Naval Medical Center) - Papillary mesothelial hyperplasia (8); Well-differentiated papillary mesothelioma (5)
San Francisco (SF General Hospital) - Papillary mesothelial hyperplasia
Santa Rosa (Santa Rosa Memorial Hospital) - Benign mesothelial proliferation (2); Well-differentiated papillary mesothelioma (1)
Ventura - Peritoneal endosalpingiosis (2)
Alaska (Alaska Pathology Laboratory) - Mesothelial hyperplasia
Alaska (Alaska Native Medical Center) - Well-differentiated papillary mesothelioma
Arizona (Phoenix Memorial Hospital) - Well-differentiated papillary mesothelioma
Florida (Munroe Regional Medical Center) - Well-differentiated mesothelioma
Florida (Pathology Associates) - Papillary mesothelioma
Florida (Winter Haven Hospital) - Papillary mesothelial hyperplasia
Illinois (Northwestern Memorial Hospital) - Cystadenoma
Indiana (Ball Memorial Hospital) - Papillary mesothelial hyperplasia
Indiana (Fort Wayne) - Benign papillary mesothelioma (papillary mesothelial hyperplasia)
Kansas (University of Kansas Medical Center) - Papillary mesothelioma
Louisiana (Louisiana State University Medical Center) - Benign papillary mesothelioma
Maryland (Johns Hopkins Hospital Residents) - Well-differentiated papillary mesothelioma (2)
Maryland (National Naval Medical Center) - Papillary mesothelial hyperplasia (10)
Maryland (University of Maryland Residents) - Low grade papillary mesothelioma
Massachusetts (New England Medical Center Residents) - Well-differentiated papillary mesothelioma
Michigan (St. Joseph Mercy Hospital) - Multicystic papillary mesothelioma
New Jersey (Overlook Hospital) - Papillary mesothelial hyperplasia
New Mexico (University of New Mexico) - Benign papillary mesothelial hyperplasia
New York (Long Island Jewish Medical Center) - Benign mesothelioma
New York (Nassau University Medical Center) - Papillary mesothelial hyperplasia, inguinal hernia
New York (Stony Brook University Hospital Residents) - Well-differentiated papillary mesothelioma
New York (Westchester Medical Center) - Papillary mesothelioma, low grade
North Carolina (Duke University Medical Center) - Well-differentiated papillary mesothelioma
North Carolina (Mountain Area Pathology) - Papillary mesothelioma, well-differentiated (1); Benign papillary mesothelioma (2); Papillary mesothelial hyperplasia (1)
Oklahoma (Oklahoma University Pathology Residents) - Mesothelial hyperplasia
Pennsylvania (Allegheny General Hospital) - Papillary mesothelial hyperplasia
Pennsylvania (Centre Community Hospital) - Well-differentiated papillary mesothelioma
Pennsylvania (Memorial Medical Center) - Mesothelioma
Pennsylvania (UPMC Pathology) - Benign papillary (cystic) mesothelioma
Puerto Rico (University of Puerto Rico) - Mesothelioma, papillary/mesothelial nodular hyperplasia
Rhode Island (Rhode Island Hospital Pathology Residents) - Nodular mesothelial hyperplasia
Texas (Houston) - Papillary mesothelioma
Texas (ProPath Services) - Well-differentiated papillary mesothelioma (borderline malignant) (1); Well-differentiated papillary mesothelioma (1)
Texas (Scott & White Memorial Hospital) - Well-differentiated papillary mesothelioma
West Virginia (Greenbrier Valley Medical Center) - Mesothelial hyperplasia
Wisconsin (Meriter Health Services) - Well-differentiated papillary mesothelioma
Australia (North Queensland Pathology Group) - Serous (mesothelial) papilloma
Canada (Foothills Medical Center) - Well-differentiated papillary mesothelioma
Hong Kong (Hong Kong Baptist Hospital) - Nodular mesothelial hyperplasia
Japan (Yamanashi Medical University) - Well-differentiated papillary mesothelioma (1); Benign mesothelioma (1)
Qatar (Hamad Medical Corporation) - Benign nodular mesothelial hyperplasia

Case 8 - Diagnosis:

Reactive papillary mesothelial hyperplasia, hernia sac

T-Y7000, M-72020

Case 8 – References:

- Rosai J and Dehner LP. Nodular Mesothelial Hyperplasia in Hernia Sacs. A Benign Reactive Condition Simulating a Neoplastic Process. *Cancer* 1975; 35(1):165-175.
- Cheung AN, Young RH and Scully RE. Pseudocarcinomatous Hyperplasia of the Fallopian Tube Associated with Salpingitis. A Report of 14 Cases. *Am J Surg Pathol* 1994; 18(11):1125-1130.
- Ordenez NG, Ro JY and Ayala AG. Lesions Described as Nodular Mesothelial Hyperplasia are Primarily Composed of Histiocytes. *Am J Surg Pathol* 1998; 22(3):285-292.
- Lee A, Baloch ZW, Yu G, et al. Mesothelial Hyperplasia With Reactive Atypia. Diagnostic Pitfalls and Role of Immunohistochemical Studies-A Case Report. *Diagn Cytopathol* 2000; 22(2):113-116.
- Henderson DW, Shilkin KB and Whitaker D. Reactive Mesothelial Hyperplasia vs. Mesothelioma, Including Mesothelioma In-Situ. A Brief Review. *Am J Clin Pathol* 1998; 110(3):397-404.

Case No. 9, Accession No. 29283

April 2003

Bakersfield - Leiomyosarcoma
Baldwin Park (Kaiser Permanente) - Leiomyosarcoma (2); Leiomyosarcoma, high grade (1)
Bay Area - Leiomyosarcoma, low grade (3)
Fontana - Leiomyosarcoma
Hayward/Fremont - Leiomyosarcoma
Laguna Beach (South Coast Medical Center) - Leiomyosarcoma
Long Beach - Leiomyosarcoma (12)
Monterey (Community Hospital of Monterey Peninsula) - Leiomyosarcoma
Mountain View (El Camino Pathology Group) - Leiomyosarcoma
Oakland (Kaiser Permanente) - Leiomyosarcoma (4)
Orange (Orange County Medical Group) - Leiomyosarcoma
Oakland (Oakland Hospital) - Leiomyosarcoma
Sacramento (UC Davis Medical Center) - Leiomyosarcoma
San Diego (Naval Medical Center) - Leiomyosarcoma (2)
San Francisco (SF General Hospital) - Leiomyosarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Leiomyosarcoma (3)
Ventura - Leiomyosarcoma (2)
Alaska (Alaska Pathology Laboratory) - Leiomyosarcoma
Alaska (Alaska Native Medical Center) - Leiomyosarcoma
Arizona (Phoenix Memorial Hospital) - Leiomyosarcoma
Florida (Munroe Regional Medical Center) - Leiomyosarcoma
Florida (Pathology Associates) - Leiomyosarcoma
Florida (Winter Haven Hospital) - Leiomyosarcoma
Illinois (Northwestern Memorial Hospital) - Leiomyosarcoma
Indiana (Ball Memorial Hospital) - Leiomyosarcoma
Indiana (Fort Wayne) - Leiomyosarcoma, left kidney
Kansas (University of Kansas Medical Center) - Leiomyosarcoma
Louisiana (Louisiana State University Medical Center) - Leiomyosarcoma, kidney (well-differentiated)
Maryland (Johns Hopkins Hospital Residents) - Leiomyosarcoma (1); Leiomyosarcoma, possibly of vascular origin, if this patient is immunosuppressed would perform an EBV in-situ (1)
Maryland (National Naval Medical Center) - Leiomyosarcoma (10)
Maryland (University of Maryland Residents) - Leiomyosarcoma
Massachusetts (New England Medical Center Residents) - Leiomyosarcoma
Michigan (St. Joseph Mercy Hospital) - Leiomyosarcoma
New Jersey (Overlook Hospital) - Leiomyosarcoma
New Mexico (University of New Mexico) - Leiomyosarcoma
New York (Long Island Jewish Medical Center) - Leiomyosarcoma of left kidney
New York (Nassau University Medical Center) - Leiomyosarcoma, left kidney
New York (Stony Brook University Hospital Residents) - Leiomyosarcoma
New York (Westchester Medical Center) - Leiomyosarcoma
North Carolina (Duke University Medical Center) - Leiomyosarcoma

North Carolina (Mountain Area Pathology) - Leiomyosarcoma (4)
Oklahoma (Oklahoma University Pathology Residents) - Leiomyosarcoma
Pennsylvania (Allegheny General Hospital) - Leiomyosarcoma
Pennsylvania (Centre Community Hospital) - Renal leiomyosarcoma
Pennsylvania (Memorial Medical Center) - Leiomyosarcoma
Pennsylvania (UPMC Pathology) - Leiomyosarcoma
Puerto Rico (University of Puerto Rico) - Leiomyosarcoma
Rhode Island (Rhode Island Hospital Pathology Residents) - Leiomyosarcoma
Texas (Houston) - Leiomyosarcoma
Texas (ProPath Services) - Leiomyosarcoma (2)
Texas (Scott & White Memorial Hospital) - Leiomyosarcoma
West Virginia (Greenbrier Valley Medical Center) - Leiomyosarcoma
Wisconsin (Meriter Health Services) - Leiomyosarcoma
Australia (North Queensland Pathology Group) - Leiomyosarcoma
Canada (Foothills Medical Center) - Leiomyosarcoma
Hong Kong (Hong Kong Baptist Hospital) - Leiomyosarcoma/sarcomatoid renal cell carcinoma
Japan (Yamanashi Medical University) - Leiomyosarcoma (2)
Qatar (Hamad Medical Corporation) - Leiomyosarcoma

Case 9 - Diagnosis:

Pleomorphic leiomyosarcoma, kidney

T-71000, M-88903

Case 9 – References:

Miyajima K, Oda Y, Oshiro Y, et al. Clinicopathological Prognostic Factors in Soft Tissue Leiomyosarcoma. A Multivariate Analysis. *Histopathol* 2002; 40(4):353-359.
 Chow LT, Chan SK and Chow WH. Fine Needle Aspiration Cytodiagnosis of Leiomyosarcoma of the Renal Pelvis. A Case Report With Immunohistochemical Study. *Acta Cytol* 1994; 38(5):759-763.
 Villanueva RR, Nguyen-Ho P and Nguyen GK. Leiomyosarcoma of the Kidney. Report of a Case Diagnosed by Fine Needle Aspiration Cytology and Electron Microscopy. *Acta Cytol* 1994; 38(4):568-572.
 van den Berg E, Molenaar WM, van Echten J, et al. Cytogenetic Analysis of a Leiomyosarcoma of the Kidney. *Cancer Genet Cytogenet* 1994; 72(2):126-129.

Case No. 10, Accession No. 29559

April 2003

Bakersfield - Neurilemmoma
Baldwin Park (Kaiser Permanente) - Nerve sheath tumor (neurofibroma) (1); Neurofibroma (1); Peripheral nerve sheath tumor (1)
Bay Area - Schwannoma (3)
Fontana - Cellular schwannoma
Hayward/Fremont - Schwannoma
Laguna Beach (South Coast Medical Center) - Schwannoma
Long Beach - Schwannoma (12)
Monterey (Community Hospital of Monterey Peninsula) - Malignant peripheral nerve sheath tumor
Mountain View (El Camino Pathology Group) - Ganglioneuroma
Oakland (Kaiser Permanente) - Schwannoma (4)
Orange (Orange County Medical Group) - Neurilemmoma
Oakland (Oakland Hospital) - Schwannoma
Sacramento (UC Davis Medical Center) - Peripheral nerve sheath tumor
San Diego (Naval Medical Center) - Schwannoma (1); Cellular schwannoma (1)
San Francisco (SF General Hospital) - Schwannoma
Santa Rosa (Santa Rosa Memorial Hospital) - Nerve sheath tumor of unknown malignant potential (2); Schwannoma (1)
Ventura - Neurilemmoma (2)
Alaska (Alaska Pathology Laboratory) - Malignant peripheral nerve sheath tumor, neurofibrosarcoma
Alaska (Alaska Native Medical Center) - Schwannoma (2); Neurofibroma (1)
Arizona (Phoenix Memorial Hospital) - Neurofibroma
Florida (Munroe Regional Medical Center) - Schwannoma
Florida (Pathology Associates) - Schwannoma
Florida (Winter Haven Hospital) - Neurofibroma
Illinois (Northwestern Memorial Hospital) - Schwannoma
Indiana (Ball Memorial Hospital) - Schwannoma

Indiana (Fort Wayne) - Neurofibroma, right adrenal
Kansas (University of Kansas Medical Center) - Schwannoma
Louisiana (Louisiana State University Medical Center) - Cellular neurofibroma
Maryland (Johns Hopkins Hospital Residents) - Schwannoma (1); Favor cellular schwannoma (1)
Maryland (National Naval Medical Center) - Benign peripheral nerve sheath tumor, favor schwannoma (7); Ganglionic ganglioneuroma (3)
Maryland (University of Maryland Residents) - Schwannoma
Massachusetts (New England Medical Center Residents) - Cellular schwannoma
Michigan (St. Joseph Mercy Hospital) - Schwannoma
New Jersey (Overlook Hospital) - Schwannoma
New Mexico (University of New Mexico) - Schwannoma
New York (Long Island Jewish Medical Center) - Peripheral nerve sheath tumor, favor schwannoma
New York (Nassau University Medical Center) - Cellular schwannoma, right adrenal
New York (Stony Brook University Hospital Residents) - Neurofibroma
New York (Westchester Medical Center) - Schwannoma
North Carolina (Duke University Medical Center) - Schwannoma with “ancient” change
North Carolina (Mountain Area Pathology) - Schwannoma (4)
Oklahoma (Oklahoma University Pathology Residents) - Schwannoma
Pennsylvania (Allegheny General Hospital) - Neurofibroma
Pennsylvania (Centre Community Hospital) - Adrenal schwannoma
Pennsylvania (Memorial Medical Center) - Schwannoma
Pennsylvania (UPMC Pathology) - Schwannoma
Puerto Rico (University of Puerto Rico) - Schwannoma
Rhode Island (Rhode Island Hospital Pathology Residents) - Cellular schwannoma
Texas (Houston) - Adrenal schwannoma
Texas (ProPath Services) - Schwannoma (2)
Texas (Scott & White Memorial Hospital) - Schwannoma
West Virginia (Greenbrier Valley Medical Center) - Adrenal malignant schwannoma
Wisconsin (Meriter Health Services) - Schwannoma
Australia (North Queensland Pathology Group) - Neurofibroma
Canada (Foothills Medical Center) - Schwannoma
Hong Kong (Hong Kong Baptist Hospital) - Ganglioneuroma/cellular schwannoma
Japan (Yamanashi Medical University) - Schwannoma (2)
Qatar (Hamad Medical Corporation) - Neurilemmoma

Case 10 - Diagnosis:

Benign peripheral nerve sheath tumor, favor schwannoma, adrenal

T-93000, M-95400

Case 10 - References:

- Kimura N, Watanabe T, Kukase M. Neurofibromin and NF1 Gene Analysis in Composite Pheochromocytoma and Tumors Associated with von Recklinghausen’s Disease. *Mod Pathol* 2002; 15(3):183-188.
- Proye C, Jafari MM, Combemale F, et al. Experience Gained from Operation of 103 Adrenal Incidentalomas. *Langenbecks Arch Surg* 1998; 383(5):330-333.
- Hurley L, Smith JJ, Larsen CR, et al. Multiple Retroperitoneal Schwannomas. Case Report and Review of the Literature. *J Urol* 1994; 151(2):413-416.
- Sharma SK, Koleski FC, Husain AN, et al. Retroperitoneal Schwannoma Mimicking an Adrenal Lesion. *World J Urol* 2002; 20(4):232-233.
- Gorunova L, Dawiskiba S, Andren-Sandberg A, et al. Extensive Cytogenetic Heterogeneity in a Benign Retroperitoneal Schwannoma. *Cancer Genet Cytogenet* 2001; 127(2):148-154.
- Hsiao WC, Lin PW and Chang KC. Benign Retroperitoneal Schwannoma Mimicking A Pancreatic Cystic Tumor. Case Report and Literature Review. *Hepatogastroenterology* 1998; 45(24):2418-2420.