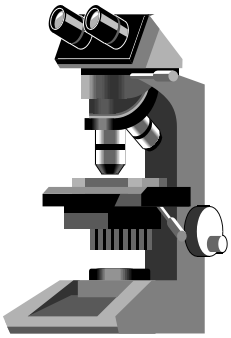
CALIFORNIA
TUMOR TISSUE REGISTRY

GENERAL PATHOLOGY

Minutes – Subscription A

March, 2006



SUGGESTED READING (General Topics from Recent Literature):

Endosonographic Diagnosis of Recurrent Gastrointestinal Stromal Tumors Associated with Carney's Syndrome. Lipcan MT, Loren DE, Palazzo JP, et al. *Gastroenterology* 2005; 128:169-174.

PSA Testing. What is the Use? *The Lancet* 2005; 365:1447-1449.

Epithelioid Mesotheliomas vs. Pulmonary Squamous Cell Carcinomas. Ordonez NG. *Mod Pathol* 2006; 19:417-428.

Ultrasensitive PSA Nadir Can Predict Recurrence. Nakamura M, Hasumi H, et al. *Int J Urol* 2005; 12:1050-1054.

EUS-FNA Useful in Gastrointestinal Lesions. Bardales RH, Stelow EB, et al. *Diagn Cytopathol* 2006; 34:140-175.

Nineteen days after suffering a major heart attack and a fall, Dr. Weldon K Bullock died at his new home at Linda Valley Villa (Loma Linda) on March 28, 2006. He was 98-years-young and will be deeply missed. Please say a prayer of thanksgiving for his wonderful and amazing life.

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FILE DIAGNOSES

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

CTTR Subscription A March, 2006

Case 1:
Hepatoblastoma, right hepatic lobe
T-56000, M-89703

Case 2:
Hepatocellular carcinoma, right hepatic lobe
T-56000, M-81703

Case 3:
Chondromatous pulmonary hamartoma
T-28000, M-75500

Case 4:
Thymoma, mediastinum
T-Y2300, M-85800

Case 5:
Adrenal cortical adenoma, left adrenal
T-93000, M-83700

Case 6:
Adrenal cortical carcinoma, right
T-71000, M-83703

Case 7:
Angiomyolipoma, right kidney
T-71000, M-88600

Case 8:
Myelolipoma, adrenal
T-Y4600, M-88700

Case 9:
Gastrointestinal stromal tumor (GIST), small bowel
T-64000, M-88903

Case 10:
Hemangiopericytoma/solitary fibrous tumor, lower extremity
T-Y9220, M-90510

Case No. 1, Accession No. 30011 **March 2006**

Alameda (Alameda County Medical Center) - Hepatoblastoma
Alameda (Garfield Medical Center) - Hepatocellular carcinoma
Baldwin Park (Kaiser Permanente) - Hepatoblastoma (3)
Fontana (Kaiser Permanente Hospital) - Hepatoblastoma
Glendale - Hepatoblastoma
Hayward/Fremont (St. Rose Hospital) - Hepatoblastoma with EMH
Irvine (University of California Irvine) - Hepatoblastoma
Loma Linda (Loma Linda University Medical Center Pathology Residents) - Hepatoblastoma
Long Beach (Lakewood Regional Medical Center) - Hepatoblastoma (10)
Monterey Park (Monterey Peninsula Pathologists) - Hepatoblastoma
Mountain View (El Camino Pathology) - Hepatoblastoma
Orange (Orange County Medical Group) - Hepatoblastoma
Oxnard (St. John's Regional Medical Center) - Hepatoblastoma (3)
San Diego (Naval Medical Center) - Hepatoblastoma, epithelial type with fetal and embryonal patterns (1); Hepatoblastoma (1)
Santa Barbara (Cottage Hospital) - Hepatoblastoma
San Francisco (San Francisco General Hospital) - Hepatoblastoma
Santa Rosa (Santa Rosa Memorial Hospital) - Hepatoblastoma (3)
Ventura (UNILAB) - Hepatoblastoma
Woodland Hills (Kaiser Permanente Medical Center) - Hepatoblastoma (2); Extramedullary hematopocisis
Arkansas (University of Arkansas Medical Center) - Hepatoblastoma
Colorado, Evergreen - Hepatoblastoma
Florida (Jackson Memorial Hospital) - Hepatoblastoma
Florida, Tallahassee - Hepatoblastoma
Florida (The Pathology Group) - Hepatoblastoma (5)
Florida (Winter Haven Hospital) - Hepatocellular carcinoma
Illinois (Naval Hospital Great Lakes) - Hepatoblastoma
Illinois, Oak Brook - Hepatoblastoma
Illinois (Loyola University Medical Center) - Hepatoblastoma
Indiana (Ball Memorial Hospital) - Hepatoblastoma
Indiana (Kokamo Pathologist Health System) - Hepatocellular carcinoma
Kentucky (University of Louisville Hospital) - Hepatoblastoma, fetal type
Maryland (National Naval Medical Center) - Hepatoblastoma
Maryland (Northwestern Hospital Center) - Hepatoblastoma
Maryland (University of Maryland) - Hepatoblastoma
Massachusetts (New England Medical Center) - Hepatoblastoma
Michigan (Oakwood Hospital) - Hepatoblastoma
Minnesota (Fairview Ridges Hospital) - Hepatoblastoma
Nebraska (Creighton University School of Medicine) - Hepatoblastoma, fetal type (8); vs. infantile hepatocellular carcinoma (2)
New York (Long Island Jewish Medical Center) - Hepatoblastoma, fetal type
New York (Nassau University Medical Center) - Hepatoblastoma, embryonic type
New York (New York Stony Brook University Hospital Residents) - Hepatoblastoma
New York (SUNY Downstate Residents) - Hepatoblastoma
New York (Westchester Medical Center) - Hepatoblastoma, epithelial type
North Carolina (Mountain Area Pathology) - Hepatoblastoma (3); Hepatoblastoma, fetal variant (2)
Pennsylvania (Conemaugh Memorial Medical Center) - Hepatoblastoma
Pennsylvania (Mt. Nittany Medical Center) - Hepatoblastoma
Pennsylvania (Pennsylvania Hospital Residents) - Hepatoblastoma
Texas, Lubbock - Hepatocellular carcinoma
Texas (Propath Associates) - Hepatoblastoma (1); Hepatoblastoma, embryonal epithelial type (1)
Texas (Wilford Hall Medical Center) - Hepatoblastoma
Texas (Scott & White Memorial Hospital) - Hepatoblastoma
West Virginia (Greenbrier Valley Medical Center) - Hepatoblastoma
West Virginia (Wetzel County Hospital) - Hepatoblastoma
Wisconsin (Bellin Health) - Hepatoblastoma
Wisconsin (Meriter Hospital) - Hepatoblastoma
Wisconsin (Pathology Associates) - Hepatoblastoma (2)
Australia (North Qld Pathology Group) - Hepatoblastoma
Australia (Royal Hobart Hospital) - Hepatoblastoma (fetal type)
Australia (Royal Prince Alfred Hospital) - Hepatoblastoma
Australia (Sullivan Nicolaides Pathology) - Hepatoblastoma
Germany (UKE, Kerminstitut fur Pathologie) - Hepatoblastoma

Ireland (Kerry General Hospital) - Hepatoblastoma
Jamaica (The University of the West Indies) - Hepatoblastoma
Japan (Kyoto University Hospital) - Hepatoblastoma
Japan (Nagoya University School of Medicine) - Hepatoblastoma
New Zealand (Otago Diagnostic Lab) - Hepatoblastoma
Puerto Rico (University of Puerto Rico School of Medicine) - Hepatoblastoma
Saudi Arabia (King Fahad National Guard Hospital) - Hepatoblastoma
Qatar (Hamad Medical Corporation) - Hepatoblstoma

Case 1 - Diagnosis:

Hepatoblastoma, right hepatic lobe
T-56000, M-89703

AFIP Consultation: "Hepatoblastoma, epithelial type, with fetal and embryonal growth."

Case 1 – References:

Abbasoglu L, Gun F, Tansu SF, Relik A, et al. Hepatoblastoma in Children. *Acta Chir Belg* 2004; 104(3):318-321.
Choudhury SR and Singh D. Advanced Hepatoblstoma. Successful Liver Resection Following Preoperative Chemotherapy. *Trop Gastroenterol* 2004; 25(1):32-33.
Albrecht S, Hartmann W and Houshdaran F. Allelic Loss But Absence of Mutations in the Polyspecific Transporter Gene. BWRIA on 11p15.5 in Hepatoblastoma. *Int J Cancer* 2004; 10:111(4):627-632.
Hanif G. Intra-Abdominal Tumors in Children. *J Coll Physicians Surg Pak* 2004; 14(8):478-480.
Hiyama E, Yamaoka H, Matsunaga T, et al. High Expression of Telomerase is an Independent Prognostic Indicator of Poor Outcome in Hepatoblastoma. *Br J Cancer* 2004; 91(5):972-979.

Case No. 2, Accession No. 30003 March 2006

Alameda (Alameda County Medical Center) - Hepatocellular carcinoma
Alameda (Garfield Medical Center) - Hepatocellular carcinoma
Baldwin Park (Kaiser Permanente) - Well-differentiated hepatocellular carcinoma (1); Hepatocellular carcinoma (2)
Fontana (Kaiser Permanente Hospital) - Hepatocellular carcinoma
Glendale - Hepatocellular carcinoma
Hayward/Fremont (St. Rose Hospital) - Hepatocellular carcinoma
Irvine (University of California Irvine) - Hepatocellular carcinoma in absence of cirrhosis
Loma Linda (Loma Linda University Medical Center Pathology Residents) - Focal nodular hyperplasia
Long Beach (Lakewood Regional Medical Center) - Hepatocellular carcinoma (10)
Monterey Park (Monterey Peninsula Pathologists) - Hepatocellular carcinoma vs. focal nodular hyperplasia
Mountain View (El Camino Pathology) - Hepatocellular carcinoma
Orange (Orange County Medical Group) - Hepatocellular carcinoma
Oxnard (St. John's Regional Medical Center) - Focal nodular hyperplasia (3)
San Diego (Naval Medical Center) - Hepatocellular carcinoma, NOS (2)
Santa Barbara (Cottage Hospital) - Hepatocellular carcinoma, grade 2
San Francisco (San Francisco General Hospital) - Hepatocellular carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Hepatocellular carcinoma (3)
Ventura (UNILAB) - Hepatocellular carcinoma
Woodland Hills (Kaiser Permanente Medical Center) - Hepatocellular carcinoma (2)
Arkansas (University of Arkansas Medical Center) - Hepatocellular carcinoma
Colorado, Evergreen - Hepatocellular carcinoma
Florida (Jackson Memorial Hospital) - Hepatocellular carcinoma
Florida, Tallahassee - Hepatocellular carcinoma
Florida (The Pathology Group) - Hepatocellular carcinoma, fibrolamellar type (5)
Florida (Winter Haven Hospital) - Hepatocellular carcinoma
Illinois (Naval Hospital Great Lakes) - Hepatocellular carcinoma
Illinois, Oak Brook - Hepatocellular carcinoma
Illinois (Loyola University Medical Center) - Hepatocellular carcinoma
Indiana (Ball Memorial Hospital) - Hepatocellular carcinoma
Indiana (Kokamo Pathologist Health System) - Hepatocellular carcinoma
Kentucky (University of Louisville Hospital) - Hepatocellular carcinoma
Maryland (National Naval Medical Center) - Hepatocellular carcinoma (10); Hepatocellular carcinoma, fibrolamellar variant (1)

Maryland (Northwestern Hospital Center) - Hepatocellular carcinoma
Maryland (University of Maryland) - Hepatocellular carcinoma, clear cell type
Massachusetts (New England Medical Center) - Hepatocellular carcinoma
Michigan (Oakwood Hospital) - Hepatocellular carcinoma
Minnesota (Fairview Ridges Hospital) - Heptocellular carcinoma
Nebraska (Creighton University School of Medicine) - Hepatocellular carcinoma
New York (Long Island Jewish Medical Center) - Hepatocellular carcinoma
New York (Nassau University Medical Center) - Hepatocellular carcinoma
New York (New York Stony Brook University Hospital Residents) - Hepatocellular carcinoma
New York (SUNY Downstate Residents) - Hepatic cell carcinoma
New York (Westchester Medical Center) - Hepatocellular carcinoma
North Carolina (Mountain Area Pathology) - Hepatocellular carcinoma, fibrolamellar (4); Hepatocellular carcinoma (1)
Pennsylvania (Conemaugh Memorial Medical Center) - Focal nodular hyperplasia
Pennsylvania (Mt. Nittany Medical Center) - Clear cell hepatocellular carcinoma
Pennsylvania (Pennsylvania Hospital Residents) - Focal nodular hyperplasia
Texas, Lubbock - Hepatocellular carcinoma
Texas (Propath Associates) - Hepatocellular carcinoma (2)
Texas (Wilford Hall Medical Center) - Hepatocellular carcinoma
Texas (Scott & White Memorial Hospital) - Hepatocellular carcinoma
West Virginia (Greenbrier Valley Medical Center) - Hepatocellular carcinoma
West Virginia (Wetzel County Hospital) - Fibrolamellar hepatocellular carcinoma
Wisconsin (Bellin Health) - Hepatocellular carcinoma
Wisconsin (Meriter Hospital) - Hepatocellular carcinoma
Wisconsin (Pathology Associates) - Hepatocellular carcinoma
Australia (North Qld Pathology Group) - Hepatic adenoma with atypia
Australia (Royal Hobart Hospital) - Hepatocellular carcinoma
Australia (Royal Prince Alfred Hospital) - Mixed hepatocellular carcinoma and cholangiocarcinoma (4); Hepatocellular carcinoma (4)
Australia (Sullivan Nicolaides Pathology) - Hepatocellular carcinoma
Germany (UKE, Kerminstitut fur Pathologie) - Hepatocell carcinoma
Ireland (Kerry General Hospital) - Hepatocellular carcinoma with clear cell areas
Jamaica (The University of the West Indies) - Hepatocellular carcinoma, fibrolamellar variant
Japan (Kyoto University Hospital) - Hepatocellular carcinoma
Japan (Nagoya University School of Medicine) - Hepatocellular carcinoma
New Zealand (Otago Diagnostic Lab) - Hepatocellular carcinoma, moderately-to-well differentiated
Puerto Rico (University of Puerto Rico School of Medicine) - Liver cell carcinoma (arising from focal nodular hyperplasia?)
Saudi Arabia (King Fahad National Guard Hospital) - Hepatocellular carcinoma, fibromellar type
Qatar (Hamad Medical Corporation) - Hepatocellular carcinoma

Case 2 - Diagnosis:

Hepatocellular carcinoma, right hepatic lobe
T-56000, M-81703

Case 2 - References:

Hwang SJ, Luo JC, Li CP, et al. Thrombocytosis. A Paraneoplastic Syndrome in Patients with Hepatocellular Carcinoma. *World J Gastroenterol* 2004; 10(17): 2472-2477.
Varma V and Cohen C. Immunohistochemical and Molecular Markers in the Diagnosis of Hepatocellular Carcinoma. *Adv Anat Pathol* 2004; 11(5):239-249.
Si MW, Thorson JA, Lauwers GY, et al. Hepatocellular Lymphoepithelioma-Like Carcinoma Associated with Epstein Barr Virus. A Hitherto Unrecognized Entity. *Diagn Mol Pathol* 2004; 13(3):183-189.
Nagai H, Pineau P, Tiollais P, et al. Comprehensive Allelotyping of Human Hepatocellular Carcinoma. *Oncogen* 1997; 14(24):2927-2933.
Plentz RR, Caselitz M, Bleck JS, et al. Hepatocellular Telomere Shortening Correlates with Chromosomal Instability and the Development of Human Hepatoma. *Hepatology* 2004; 40(1):80-86.

Case No. 3, Accession No. 29999 March 2006

Alameda (Alameda County Medical Center) - Pulmonary hemartoma
Alameda (Garfield Medical Center) - Chondroid hamartoma

Baldwin Park (Kaiser Permanente) - Pulmonary hamartoma (3)
Fontana (Kaiser Permanente Hospital) - Pulmonary hamartoma
Glendale - Chondroid hamartoma
Hayward/Fremont (St. Rose Hospital) - Pulmonary hamartoma
Irvine (University of California Irvine) - Cartilaginous hamartoma
Loma Linda (Loma Linda University Medical Center Pathology Residents) - Chondrosarcoma, grade I
Long Beach (Lakewood Regional Medical Center) - Chondroid hamartoma (10)
Monterey Park (Monterey Peninsula Pathologists) - Pulmonary hamartoma
Mountain View (El Camino Pathology) - Hamartoma
Orange (Orange County Medical Group) - Hamartoma
Oxnard (St. John's Regional Medical Center) - Chondroid hamartoma (1); Pulmonary hamartoma (2)
San Diego (Naval Medical Center) - Pulmonary hamartoma (1); Brochial hamartoma (1)
Santa Barbara (Cottage Hospital) - Pulmonary hamartoma
San Francisco (San Francisco General Hospital) - Pulmonary hamartoma
Santa Rosa (Santa Rosa Memorial Hospital) - Hamartoma (1); Pulmonary hamartoma (2)
Ventura (UNILAB) - Chondromatous hamartoma
Woodland Hills (Kaiser Permanente Medical Center) - Pulmonary hamartoma (1); Pulmonary chondromatous hamartoma (1)
Arkansas (University of Arkansas Medical Center) - Chondromatous hamartoma, lung
Colorado, Evergreen - Hamartoma
Florida (Jackson Memorial Hospital) - Bronchial hamartoma
Florida, Tallahassee - Pulmonary hamartoma
Florida (The Pathology Group) - Pulmonary hamartoma (1); Hamartoma (4)
Florida (Winter Haven Hospital) - Chondromatous hamartoma
Illinois (Naval Hospital Great Lakes) - Pulmonary hamartoma
Illinois, Oak Brook - Chondroma
Illinois (Loyola University Medical Center) - Chondromatous hamartoma
Indiana (Ball Memorial Hospital) - Pulmonary hamartoma
Indiana (Kokamo Pathologist Health System) - Chondroma
Kentucky (University of Louisville Hospital) - Pulmonary hamartoma
Maryland (National Naval Medical Center) - Pulmonary hamartoma
Maryland (Northwestern Hospital Center) - Pulmonary hamartoma
Maryland (University of Maryland) - Hamartoma
Massachusetts (New England Medical Center) - Hamartoma (lung)
Michigan (Oakwood Hospital) - Hamartoma
Minnesota (Fairview Ridges Hospital) - Chondroid hamartoma
Nebraska (Creighton University School of Medicine) - Cartilagenous hamartoma
New York (Long Island Jewish Medical Center) - Pulmonary hamartoma
New York (Nassau University Medical Center) - Pulmonary parenchymal hamartoma, chondromatous
New York (New York Stony Brook University Hospital Residents) - Hamartoma
New York (SUNY Downstate Residents) - Hamartoma
New York (Westchester Medical Center) - Chondroid hamartoma
North Carolina (Mountain Area Pathology) - Hamartoma (2); Bronchial hamartoma (3)
Pennsylvania (Conemaugh Memorial Medical Center) - Pulmonary cartilage hamartoma
Pennsylvania (Mt. Nittany Medical Center) - Pulmonary hamartoma
Pennsylvania (Pennsylvania Hospital Residents) - Hamartoma
Texas, Lubbock - Hamartoma
Texas (Propath Associates) - Pulmonary hamartoma (1); Pulmonary cartilagenous hamartoma (1)
Texas (Wilford Hall Medical Center) - Pulmonary hamartoma
Texas (Scott & White Memorial Hospital) - Pulmonary hamartoma
West Virginia (Greenbrier Valley Medical Center) - Hamartoma
West Virginia (Wetzel County Hospital) - Chondromatous hamartoma
Wisconsin (Bellin Health) - Harmartoma
Wisconsin (Meriter Hospital) - Pulmonary hamartoma
Wisconsin (Pathology Associates) - Pulmonary hamartoma (2)
Australia (North Qld Pathology Group) - Chondroid pulmonary hamartoma
Australia (Royal Hobart Hospital) - Pulmonary hamartoma (adenochondroma)
Australia (Royal Prince Alfred Hospital) - Pulmonary hamartoma
Australia (Sullivan Nicolaides Pathology) - Pulmonary hamartoma
Germany (UKE, Kerminstitut fur Pathologie) - Chondroid hamartoma
Ireland (Kerry General Hospital) - Adenochondroma (hamartoma)
Jamaica (The University of the West Indies) - Hamartoma
Japan (Kyoto University Hospital) - Pulmonary hamartoma
Japan (Nagoya University School of Medicine) - Bronchial hamartoma

New Zealand (Otago Diagnostic Lab) - Pulmonary hamartoma
Puerto Rico (University of Puerto Rico School of Medicine) - Chondroid hamartoma
Saudi Arabia (King Fahad National Guard Hospital) - Pulmonary hamartoma
Qatar (Hamad Medical Corporation) - Pulmonary hamartoma

Case 3 - Diagnosis:

Chondromatous pulmonary hamartoma
T-28000, M-75500

Case 3 - References:

Lien YC, Hsu HS, Li WY, et al. Pulmonary Hamartoma. *J Chin Med Assoc* 2004; 67(1):21-26.

Shinkai M, Kobayashi H, Kanoh S, et al. Pulmonary Hamartoma. Unusual Radiologic Appearance. *J Thorac Imaging* 2004; 19(1):38-40.

Kayser K, Dunnwald D, Kazmierczak B, et al. Chromosomal Aberrations, Profiles of Expression of Growth-Related Markers Including Galectins and Environmental Hazards in Relation to the Incidence of Chondroid Pulmonary Hamartomas. *Pathol Res Pract* 2003; 199(9):589-598.

Gregori-Romero MA, Lopez-Gines C, Cerda-Nicolas M, et al. Recombinations of Chromosomal Bands 10q24, 12q14-q15, and 14q24 in Two Cases of Pulmonary Chondroid Hamartoma Studies by Fluorescence In Situ Hybridization. *Cancer Genet Cytogenet* 2003; 142(2):153-157.

Rossi G, Cavazza A, Valli R, et al. Atypical Lipomatous Tumour (Lipoma-Like Well-Differentiated Liposarcoma) Arising in a Pulmonary Hamartoma and Clinically Presenting with Pneumothorax. *Lung Cancer* 2003; 39(1):103-106.

Case No. 4, Accession No. 30067 March 2006

Alameda (Alameda County Medical Center) - Thymoma
Alameda (Garfield Medical Center) - Thymoma
Baldwin Park (Kaiser Permanente) - Spindle cell thymoma (3)
Fontana (Kaiser Permanente Hospital) - Thymoma
Glendale - Thymoma, invasive
Hayward/Fremont (St. Rose Hospital) - Thymoma, mixed (AB)
Irvine (University of California Irvine) - Thymoma
Loma Linda (Loma Linda University Medical Center Pathology Residents) - Thymoma
Long Beach (Lakewood Regional Medical Center) - Thymoma (10)
Monterey Park (Monterey Peninsula Pathologists) - Thymoma, type AB
Mountain View (El Camino Pathology) - Thymoma
Orange (Orange County Medical Group) - Thymoma
Oxnard (St. John's Regional Medical Center) - Spindle cell thymoma (2); Thymoma (1)
San Diego (Naval Medical Center) - Thymoma, type AB (1); Thymoma (1)
Santa Barbara (Cottage Hospital) - Thymoma
San Francisco (San Francisco General Hospital) - Thymoma
Santa Rosa (Santa Rosa Memorial Hospital) - Thymoma (3)
Ventura (UNILAB) - Thymoma
Woodland Hills (Kaiser Permanente Medical Center) - Thymoma, type AB (2)
Arkansas (University of Arkansas Medical Center) - Thymoma
Colorado, Evergreen - Thymoma
Florida (Jackson Memorial Hospital) - Thymoma
Florida, Tallahassee - Thymoma
Florida (The Pathology Group) - Spindle cell thymoma (1); Thymoma (3)
Florida (Winter Haven Hospital) - Thymoma
Illinois (Naval Hospital Great Lakes) - Thymoma
Illinois, Oak Brook - Thymoma
Illinois (Loyola University Medical Center) - Thymoma
Indiana (Ball Memorial Hospital) - Thymoma
Indiana (Kokamo Pathologist Health System) - Spindle cell thymoma
Kentucky (University of Louisville Hospital) - Type AB1 thymoma
Maryland (National Naval Medical Center) - Thymoma
Maryland (Northwestern Hospital Center) - Thymoma
Maryland (University of Maryland) - Thymoma, type A
Massachusetts (New England Medical Center) - Thymoma

Michigan (Oakwood Hospital) - Thymoma
Minnesota (Fairview Ridges Hospital) - Thymoma
Nebraska (Creighton University School of Medicine) - Thymoma
New York (Long Island Jewish Medical Center) - Thymoma, mixed type, AB
New York (Nassau University Medical Center) - Thymoma
New York (New York Stony Brook University Hospital Residents) - Thymoma, spindle
New York (SUNY Downstate Residents) - Thymoma, sclerosing
New York (Westchester Medical Center) - Thymoma
North Carolina (Mountain Area Pathology) - Thymoma (5)
Pennsylvania (Conemaugh Memorial Medical Center) - Spindle cell thymoma
Pennsylvania (Mt. Nittany Medical Center) - Thymoma
Pennsylvania (Pennsylvania Hospital Residents) - Thymoma
Texas, Lubbock - Thymoma
Texas (Propath Associates) - Thymoma (2)
Texas (Wilford Hall Medical Center) - Thymoma
Texas (Scott & White Memorial Hospital) - Thymoma
West Virginia (Greenbrier Valley Medical Center) - Thymoma, lymphocytic predominance
West Virginia (Wetzel County Hospital) - Thymoma, mixed type
Wisconsin (Bellin Health) - Thymoma
Wisconsin (Meriter Hospital) - Thymoma
Wisconsin (Pathology Associates) - Thymoma (2)
Australia (North Qld Pathology Group) - Thymoma spindle cell mixed
Australia (Royal Hobart Hospital) - Thymoma (WHO type AB)
Australia (Royal Prince Alfred Hospital) - Encapsulated thymoma (AB)
Australia (Sullivan Nicolaides Pathology) - Thymoma--AB
Germany (UKE, Kerminstitut fur Pathologie) - Thymoma, type A
Ireland (Kerry General Hospital) - Type AB (mixed) thymoma
Jamaica (The University of the West Indies) - Thymoma, type A
Japan (Kyoto University Hospital) - Thymoma, type AB
Japan (Nagoya University School of Medicine) - Mixed thymoma
New Zealand (Otago Diagnostic Lab) - Thymoma, type AB
Puerto Rico (University of Puerto Rico School of Medicine) - Thymoma
Saudi Arabia (King Fahad National Guard Hospital) - Thymoma, type AB
Qatar (Hamad Medical Corporation) - Thymoma

Case 4 - Diagnosis:

Thymoma, mediastinum
T-Y2300, M-85800

Case 4 - References:

Minniti S, Valentini M, Pinali L, et al. Thymic Masses of the Middle Mediastinum. Report of 2 Cases and Review of the Literature. *J Thorac Imaging* 2004; 19(3):192-195.
Chalabreysse L, Etinne-Mastroianni B, Adeleine P, et al. Thymic Carcinoma. A Clinicopathological and Immunohistological Study of 19 Cases. *Histopathol* 2004; 44(4):367-374.
Sundaram C, Rajagopal P, Rakshak AD, et al. Clinicopathological Study of Thymomas—Correlation of Histologic Subtype to Myasthenia Gravis and Prognosis. *Indian J Pathol Microbiol* 2003; 46(3):378-381.
Sperling B, Marschall J, Kennedy R, et al. Thymoma. A Review of the Clinical and Pathological Findings in 65 Cases. *Can J Surg* 2003; 46(1):37-42.
Sasaki H, Ide N, Fukai I, et al. Gene Expression Analysis of Human Thymoma. Correlates with Tumor Stage. *Int J Cancer* 2002; 101(4):342-347.

Case No. 5, Accession No. 30051 March 2006

Alameda (Alameda County Medical Center) - Adrenal cortical adenoma
Alameda (Garfield Medical Center) - Adrenal cortical adenoma
Baldwin Park (Kaiser Permanente) - Adrenocortical adenoma (3)
Fontana (Kaiser Permanente Hospital) - Adrenal cortical adenoma
Glendale - Adrenal cortical adenoma
Hayward/Fremont (St. Rose Hospital) - Adrenocortical adenoma
Irvine (University of California Irvine) - Adrenal adenoma

Loma Linda (Loma Linda University Medical Center Pathology Residents) - Adrenal cortical adenoma
Long Beach (Lakewood Regional Medical Center) - Adrenocortical adenoma (10)
Monterey Park (Monterey Peninsula Pathologists) - Adrenal cortical adenoma
Mountain View (El Camino Pathology) - Adrenal cortical adenoma
Orange (Orange County Medical Group) - Adrenal cortical adenoma
Oxnard (St. John's Regional Medical Center) - Adrenocortical neoplasm, probably adenoma (1); Cortical adenoma (2)
San Diego (Naval Medical Center) - Adrenal adenoma (1); Adrenal cortical adenoma (1)
Santa Barbara (Cottage Hospital) - Adrenal cortical neoplasm, favor benign
San Francisco (San Francisco General Hospital) - Adrenal cortical adenoma
Santa Rosa (Santa Rosa Memorial Hospital) - Adrenal cortical adenoma (3)
Ventura (UNILAB) - Adrenal cortical adenoma
Woodland Hills (Kaiser Permanente Medical Center) - Adrenal cortical adenoma (2)
Arkansas (University of Arkansas Medical Center) - Adrenal cortical adenoma
Colorado, Evergreen - Adrenal cortical adenoma
Florida (Jackson Memorial Hospital) - Adrenal cortical adenoma
Florida, Tallahassee - Adrenal adenoma
Florida (The Pathology Group) - Adrenal cortical adenoma (4); Adrenal adenoma (1)
Florida (Winter Haven Hospital) - Adrenal cortical adenoma
Illinois (Naval Hospital Great Lakes) - Adrenal cortical adenoma
Illinois, Oak Brook - Adrenal cortical adenoma
Illinois (Loyola University Medical Center) - Adrenal cortical adenoma
Indiana (Ball Memorial Hospital) - Adrenocortical adenoma
Indiana (Kokamo Pathologist Health System) - Adrenal cortical adenoma
Kentucky (University of Louisville Hospital) - Nodular hyperplasia
Maryland (National Naval Medical Center) - Adrenal cortical adenoma
Maryland (Northwestern Hospital Center) - Adrenocortical adenoma
Maryland (University of Maryland) - Cortical adenoma
Massachusetts (New England Medical Center) - Adrenocortical adenoma with oncocytic change
Michigan (Oakwood Hospital) - Adrenocortical adenoma
Minnesota (Fairview Ridges Hospital) - Adrenal cortical adenoma
Nebraska (Creighton University School of Medicine) - Adrenocortical adenoma
New York (Long Island Jewish Medical Center) - Adrenal cortical adenoma
New York (Nassau University Medical Center) - Adrenal cortical adenoma
New York (New York Stony Brook University Hospital Residents) - Adrenal cortical pigmented adenoma
New York (SUNY Downstate Residents) - Adrenal cortical adenoma
New York (Westchester Medical Center) - Adrenocortical adenoma
North Carolina (Mountain Area Pathology) - Adrenal cortical adenoma (2); Adrenal cortical neoplasm (3)
Pennsylvania (Conemaugh Memorial Medical Center) - Adrenocortical adenoma
Pennsylvania (Mt. Nittany Medical Center) - Adrenocortical adenoma
Pennsylvania (Pennsylvania Hospital Residents) - Incidental adrenal cortical nodule
Texas, Lubbock - Cortical adenoma
Texas (Propath Associates) - Adrenal cortical adenoma (1); Adrenocortical adenoma (1)
Texas (Wilford Hall Medical Center) - Adrenal cortical adenoma
Texas (Scott & White Memorial Hospital) - Adrenal cortical adenoma
West Virginia (Greenbrier Valley Medical Center) - Adrenal cortical adenoma
West Virginia (Wetzel County Hospital) - Cortical adenoma
Wisconsin (Bellin Health) - Adrenal cortical adenoma
Wisconsin (Meriter Hospital) - Adreno-cortical adenoma
Wisconsin (Pathology Associates) - Cortical adenoma (1); Adrenal cortical adenoma (1)
Australia (North Qld Pathology Group) - Adrenal cortical adenoma
Australia (Royal Hobart Hospital) - Adrenal cortical adenoma
Australia (Royal Prince Alfred Hospital) - Adrenal cortical adenoma
Australia (Sullivan Nicolaides Pathology) - Adrenal cortical adenoma
Germany (UKE, Kerminstitut fur Pathologie) - Adrenocortical adenoma
Ireland (Kerry General Hospital) - Adrenocortical adenoma
Jamaica (The University of the West Indies) - Adrenocortical adenoma
Japan (Kyoto University Hospital) - Adrenocortical tumor (adenoma)
Japan (Nagoya University School of Medicine) - Adrenal cortical adenoma
New Zealand (Otago Diagnostic Lab) - Adrenal cortical hyperplasia
Puerto Rico (University of Puerto Rico School of Medicine) - Adrenal cortical adenoma
Saudi Arabia (King Fahad National Guard Hospital) - Adrenal cortical adenoma
Qatar (Hamad Medical Corporation) - Adrenal cortical adenoma

Case 5 - Diagnosis:

Adrenal cortical adenoma, left adrenal
T-93000, M-83700

Case 5 - References:

Walz MK. Extent of Adrenalectomy for Adrenal Neoplasm. Cortical Sparing (Subtotal) Versus Total Adrenalectomy. *Surg Clin North Am* 2004; 84(3):743-753.

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McDonnell C and Zacharin M. Adrenal Cortical Tumours. 25 Years' Experience at the Royal Children's Hospital. Melbourne. *J Paediatr Child Hlth* 2003; 39(9):682-685.

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Case No. 6, Accession No. 30052 March 2006

Alameda (Alameda County Medical Center) - Adrenal cortical carcinoma
Alameda (Garfield Medical Center) - Adrenal oncocytoma
Baldwin Park (Kaiser Permanente) - Adrenocortical carcinoma (1); Adrenal cortical carcinoma (2)
Fontana (Kaiser Permanente Hospital) - Adrenal cortical carcinoma
Glendale - Adrenal cortical carcinoma
Hayward/Fremont (St. Rose Hospital) - Adrenocortical carcinoma
Irvine (University of California Irvine) - Adrenal cortical carcinoma
Loma Linda (Loma Linda University Medical Center Pathology Residents) - Adrenal cortical carcinoma
Long Beach (Lakewood Regional Medical Center) - Adrenocortical carcinoma (10)
Monterey Park (Monterey Peninsula Pathologists) - Adrenal cortical carcinoma
Mountain View (El Camino Pathology) - Adrenal cortical carcinoma, oncocytic type
Orange (Orange County Medical Group) - Adrenal cortical carcinoma
Oxnard (St. John's Regional Medical Center) - Adrenocortical carcinoma (1); Cortical adenocarcinoma (1); Adrenal cortical carcinoma (1)
San Diego (Naval Medical Center) - Adrenal cortical carcinoma (2)
Santa Barbara (Cottage Hospital) - Adrenal cortical carcinoma
San Francisco (San Francisco General Hospital) - Adrenal cortical carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Adrenal cortical carcinoma (2); Adrenal neoplasm c/w adrenocortical carcinoma (1)
Ventura (UNILAB) - Adrenal cortical carcinoma
Woodland Hills (Kaiser Permanente Medical Center) - Adrenal cortical carcinoma (2)
Arkansas (University of Arkansas Medical Center) - Adrenal cortical carcinoma
Colorado, Evergreen - Adrenal cortical carcinoma
Florida (Jackson Memorial Hospital) - Adrenal cortical carcinoma
Florida, Tallahassee - Adrenal cortical carcinoma
Florida (The Pathology Group) - Adrenal cortical carcinoma (3); Adrenocortical carcinoma (1)
Florida (Winter Haven Hospital) - Adrenal cortical carcinoma
Illinois (Naval Hospital Great Lakes) - Adrenocortical carcinoma
Illinois, Oak Brook - Adrenal cortical carcinoma
Illinois (Loyola University Medical Center) - Adrenal cortical carcinoma
Indiana (Ball Memorial Hospital) - Adrenocortical carcinoma
Indiana (Kokamo Pathologist Health System) - Pheochromocytoma
Kentucky (University of Louisville Hospital) - Adrenal cortical carcinoma
Maryland (National Naval Medical Center) - Adrenal cortical carcinoma
Maryland (Northwestern Hospital Center) - Adrenocortical carcinoma
Maryland (University of Maryland) - Cortical carcinoma
Massachusetts (New England Medical Center) - Adrenocortical carcinoma
Michigan (Oakwood Hospital) - Adrenocortical carcinoma
Minnesota (Fairview Ridges Hospital) - Adrenal cortical carcinoma
Nebraska (Creighton University School of Medicine) - Adrenocortical carcinoma
New York (Long Island Jewish Medical Center) - Adrenal cortical carcinoma
New York (Nassau University Medical Center) - Adrenal cortical carcinoma
New York (New York Stony Brook University Hospital Residents) - Adrenal cortical carcinoma

New York (SUNY Downstate Residents) - Adrenal cortical carcinoma
New York (Westchester Medical Center) - Adrenocortical carcinoma
North Carolina (Mountain Area Pathology) - Adrenal cortical carcinoma (5)
Pennsylvania (Conemaugh Memorial Medical Center) - Adrenocortical carcinoma
Pennsylvania (Mt. Nittany Medical Center) - Adrenocortical carcinoma
Pennsylvania (Pennsylvania Hospital Residents) - Adrenal cortical carcinoma
Texas, Lubbock - Cortical adenocarcinoma
Texas (Propath Associates) - Adrenal cortical carcinoma (1); Adrenocortical carcinoma (1)
Texas (Wilford Hall Medical Center) - Adrenal cortical carcinoma
Texas (Scott & White Memorial Hospital) - Adrenal cortical carcinoma
West Virginia (Greenbrier Valley Medical Center) - Adrenal cortical carcinoma
West Virginia (Wetzel County Hospital) - Adrenal cortical carcinoma
Wisconsin (Bellin Health) - Adrenal cortical carcinoma
Wisconsin (Meriter Hospital) - Adrenocortial carcinoma, oncocytic variant
Wisconsin (Pathology Associates) - Cortical carcinoma (1); Adrenal cortical carcinoma (1)
Australia (North Qld Pathology Group) - Adrenal cortical carcinoma
Australia (Royal Hobart Hospital) - Adrenal cortical carcinoma
Australia (Royal Prince Alfred Hospital) - Adrenal cortical carcinoma
Australia (Sullivan Nicolaides Pathology) - Adrenal carcinoma
Germany (UKE, Kerminstitut fur Pathologie) - Adrenocortical carcinoma, oncocytic
Ireland (Kerry General Hospital) - Adrenocortical carcinoma
Jamaica (The University of the West Indies) - Phaeochromocytoma
Japan (Kyoto University Hospital) - Adrenocortical carcinoma
Japan (Nagoya University School of Medicine) - Adrenal cortical carcinoma
New Zealand (Otago Diagnostic Lab) - Adrenal cortical carcinoma
Puerto Rico (University of Puerto Rico School of Medicine) - Adrenal cortical carcinoma
Saudi Arabia (King Fahad National Guard Hospital) - Adrenal cortical carcinoma
Qatar (Hamad Medical Corporation) - Adrenal cortical carcinoma

Case 6 - Diagnosis:

Adrenal cortical carcinoma, right
T-71000, M-83703

Case 6 - References:

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Sasano H, Shizawa S and Nagura H. Adrenocortical Cytopathology. *Am J Clin Pathol* 1995; 104(2):161-166.
Ahlman H, Jansson S, Wangberg B, et al. Adrenocortical Carcinoma—Diagnostic and Therapeutical Implications. *Eur J Surg* 1993; 159(3):149-158.
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Case No. 7, Accession No. 30007 March 2006

Alameda (Alameda County Medical Center) - Angiomyolipoma
Alameda (Garfield Medical Center) - Angiomyolipoma
Baldwin Park (Kaiser Permanente) - Angiomyolipoma (3)
Fontana (Kaiser Permanente Hospital) - Angiomyolipoma
Glendale - Angiomyolipoma
Hayward/Fremont (St. Rose Hospital) - Angiomyolipoma
Irvine (University of California Irvine) - Angiomyolipoma
Loma Linda (Loma Linda University Medical Center Pathology Residents) - Angiomyolipoma
Long Beach (Lakewood Regional Medical Center) - Angiomyolipoma (10)
Monterey Park (Monterey Peninsula Pathologists) - Angiomyolipoma
Mountain View (El Camino Pathology) - Angiomyolipoma
Orange (Orange County Medical Group) - Angiomyolipoma
Oxnard (St. John's Regional Medical Center) - Angiomyolipoma (3)

San Diego (Naval Medical Center) - Angiomyolipoma (2)
Santa Barbara (Cottage Hospital) - Angiomyolipoma
San Francisco (San Francisco General Hospital) - Angiomyolipoma
Santa Rosa (Santa Rosa Memorial Hospital) - Angiomyolipoma (3)
Ventura (UNILAB) - Angiomyolipoma
Woodland Hills (Kaiser Permanente Medical Center) - Angiomyolipoma (2)
Arkansas (University of Arkansas Medical Center) - Angiomyolipoma, kidney
Colorado, Evergreen - Angiomyolipoma
Florida (Jackson Memorial Hospital) - Angiomyolipoma
Florida, Tallahassee - Angiomyolipoma
Florida (The Pathology Group) - Angiomyolipoma (5)
Florida (Winter Haven Hospital) - Angiomyolipoma
Illinois (Naval Hospital Great Lakes) - Angiomyolipoma
Illinois, Oak Brook - Angiomyolipoma
Illinois (Loyola University Medical Center) - Angiomyolipoma
Indiana (Ball Memorial Hospital) - Angiomyolipoma
Indiana (Kokamo Pathologist Health System) - Angiomyolipoma
Kentucky (University of Louisville Hospital) - Angiomyolipoma
Maryland (National Naval Medical Center) - Angiomyolipoma
Maryland (Northwestern Hospital Center) - Angiomyolipoma
Maryland (University of Maryland) - Angiomylipoma
Massachusetts (New England Medical Center) - Angiomyolipoma
Michigan (Oakwood Hospital) - Angiomyolipoma
Minnesota (Fairview Ridges Hospital) - Angiomyolipoma
Nebraska (Creighton University School of Medicine) - Angiomyolipoma
New York (Long Island Jewish Medical Center) - Angiomyolipoma
New York (Nassau University Medical Center) - Angiomyolipoma
New York (New York Stony Brook University Hospital Residents) - Angiomyolipoma
New York (SUNY Downstate Residents) - Angiomyolipoma
New York (Westchester Medical Center) - Angiomyolipoma
North Carolina (Mountain Area Pathology) - Angiomyolipoma (5)
Pennsylvania (Conemaugh Memorial Medical Center) - Angiomyolipoma
Pennsylvania (Mt. Nittany Medical Center) - Renal angiomyolipoma
Pennsylvania (Pennsylvania Hospital Residents) - Angiomyolipoma
Texas, Lubbock - Angiomyolipoma
Texas (Propath Associates) - Angiomyolipoma (2)
Texas (Wilford Hall Medical Center) - Angiomyolipoma
Texas (Scott & White Memorial Hospital) - Angiomyolipoma
West Virginia (Greenbrier Valley Medical Center) - Angiomyolipoma
West Virginia (Wetzel County Hospital) - Angiomyolipoma
Wisconsin (Bellin Health) - Angiomyolipoma
Wisconsin (Meriter Hospital) - Angiomyolipoma
Wisconsin (Pathology Associates) - Angiomyolipoma (2)
Australia (North Qld Pathology Group) - Angiomyolipoma
Australia (Royal Hobart Hospital) - Angiomyolipoma
Australia (Royal Prince Alfred Hospital) - Angiomyolipoma
Australia (Sullivan Nicolaides Pathology) - Angiomyolipoma
Germany (UKE, Kerminstitut fur Pathologie) - Angiomyolipoma
Ireland (Kerry General Hospital) - Angiomyolipoma
Jamaica (The University of the West Indies) - Angiomyolipoma
Japan (Kyoto University Hospital) - Angiomyolipoma
Japan (Nagoya University School of Medicine) - Angiomyolipoma
New Zealand (Otago Diagnostic Lab) - Angiomyolipoma
Puerto Rico (University of Puerto Rico School of Medicine) - Angiomyolipoma
Saudi Arabia (King Fahad National Guard Hospital) - Angiomyolipoma
Qatar (Hamad Medical Corporation) - Angiomyolipoma

Case 7 - Diagnosis:

Angiomyolipoma, right kidney
T-71000, M-88600

Case 7 - References:

Kim JK, Park SY, Shon JH, et al. Angiomyolipoma with Minimal Fat. Differentiation from Renal Cell Carcinoma by Biphasic Helical CT. *Radiol* 2004; 230(3):677-684.

Gronchi A, Diment J, Colecchia M, et al. Atypical Pleomorphic Epithelioid Angiomyolipoma Localized to the Pelvis. A Case Report and Review of the Literature. *Histopathol* 2004; 44(3):292-295.

Krishnan B, Lechago J, Ayala G, et al. Intraoperative Consultation for Renal Lesions. Implications and Diagnostic Pitfalls in 324 Cases. *Am J Clin Pathol* 2003; 120(4):528-535.

Leclerc JC, Marchal F, Stines J, et al. Epithelioid Renal Angiomyolipoma. (Benign or Malignant tumor?) *J Radiol* 2003; 84(7-8 Pt 1):851-854. (French)

Nikaido T, Nakano M, Kato M, et al. Characterization of Smooth Muscle Components in Renal Angiomyolipomas. Histological and Immunohistochemical Comparison with Renal Capsular Leiomyomas. *Pathol Int* 2004; 54(1):1-9.

Case No. 8, Accession No. 30055 March 2006

Alameda (Alameda County Medical Center) - Adrenal myelolipoma
Alameda (Garfield Medical Center) - Myelolipoma
Baldwin Park (Kaiser Permanente) - Adrenal myelolipoma (3)
Fontana (Kaiser Permanente Hospital) - Myelolipoma
Glendale - Myolipoma
Hayward/Fremont (St. Rose Hospital) - Myelolipoma
Irvine (University of California Irvine) - Myelolipoma
Loma Linda (Loma Linda University Medical Center Pathology Residents) - Myelolipoma
Long Beach (Lakewood Regional Medical Center) - Myelolipoma (10)
Monterey Park (Monterey Peninsula Pathologists) - Myelolipoma
Mountain View (El Camino Pathology) - Myelolipoma, adrenal origin
Orange (Orange County Medical Group) - Myelolipoma
Oxnard (St. John's Regional Medical Center) - Myelolipoma (3)
San Diego (Naval Medical Center) - Myelolipoma (1); Adrenal gland with myelolipoma (1)
Santa Barbara (Cottage Hospital) - Myelolipoma
San Francisco (San Francisco General Hospital) - Myelolipoma
Santa Rosa (Santa Rosa Memorial Hospital) - Myelolipoma (2); Adrenal myelolipoma (1)
Ventura (UNILAB) - Extramedullary hematopoiesis
Woodland Hills (Kaiser Permanente Medical Center) - Myelolipoma (adrenal) (1); Adrenal gland myelolipoma (1)
Arkansas (University of Arkansas Medical Center) - Myelolipoma, kidney
Colorado, Evergreen - Myelolipoma
Florida (Jackson Memorial Hospital) - Adrenal myelolipoma
Florida, Tallahassee - Myelolipoma
Florida (The Pathology Group) - Myelolipoma (5)
Florida (Winter Haven Hospital) - Adrenal myelolipoma
Illinois (Naval Hospital Great Lakes) - Myelolipoma
Illinois, Oak Brook - Myelolipoma, adrenal gland
Illinois (Loyola University Medical Center) - Myelolipoma
Indiana (Ball Memorial Hospital) - Adrenal myelolipoma
Indiana (Kokamo Pathologist Health System) - Extramedullary hematopoiesis
Kentucky (University of Louisville Hospital) - Myelolipoma
Maryland (National Naval Medical Center) - Renal cell carcinoma
Maryland (Northwestern Hospital Center) - Myelolipoma
Maryland (University of Maryland) - Myelolipoma
Massachusetts (New England Medical Center) - Adrenal myelolipoma
Michigan (Oakwood Hospital) - Adrenal myelolipoma
Minnesota (Fairview Ridges Hospital) - Myelolipoma
Nebraska (Creighton University School of Medicine) - Myelolipoma
New York (Long Island Jewish Medical Center) - Myelolipoma
New York (Nassau University Medical Center) - Myelolipoma
New York (New York Stony Brook University Hospital Residents) - Myelolipoma
New York (SUNY Downstate Residents) - Myelolipoma
New York (Westchester Medical Center) - Adrenal myelolipoma
North Carolina (Mountain Area Pathology) - Myelolipoma (5)
Pennsylvania (Conemaugh Memorial Medical Center) - Adrenal myelolipoma
Pennsylvania (Mt. Nittany Medical Center) - Retroperitoneal myelolipoma
Pennsylvania (Pennsylvania Hospital Residents) - Myelolipoma

Texas, Lubbock - Myelolipoma
Texas (Propath Associates) - Adrenal myelolipoma (2)
Texas (Wilford Hall Medical Center) - Myelolipoma
Texas (Scott & White Memorial Hospital) - Myelolipoma
West Virginia (Greenbrier Valley Medical Center) - Myelolipoma
West Virginia (Wetzel County Hospital) - Myelolipoma of adrenal
Wisconsin (Bellin Health) - Myelolipoma
Wisconsin (Meriter Hospital) - Myelolipoma
Wisconsin (Pathology Associates) - Myelolipoma (2)
Australia (North Qld Pathology Group) - Myelolipoma
Australia (Royal Hobart Hospital) - Myelolipoma
Australia (Royal Prince Alfred Hospital) - Myelolipoma
Australia (Sullivan Nicolaides Pathology) - Myelolipoma
Germany (UKE, Kerminstitut fur Pathologie) - Myelolipoma
Ireland (Kerry General Hospital) - Myelolipoma
Jamaica (The University of the West Indies) - Myelolipoma, adrenal gland
Japan (Kyoto University Hospital) - Myelolipoma
Japan (Nagoya University School of Medicine) - Myelolipoma
New Zealand (Otago Diagnostic Lab) - Adrenal myelolipoma
Puerto Rico (University of Puerto Rico School of Medicine) - Myelolipoma
Saudi Arabia (King Fahad National Guard Hospital) - Myelolipoma
Qatar (Hamad Medical Corporation) - Myelolipoma

Case 8 - Diagnosis:

Myelolipoma, adrenal
T-Y4600, M-88700

Case 8 – References:

Wagnerova H, Lazurova I, Bober J, et al. Adrenal Myelolipoma. 6 Cases and a Review of the Literature. *Neoplasma* 2004; 51(4):300-305.

Mathews K, Sasson A and Cohen S. Pathologic Quiz Case. A Woman with Abdominal Fullness. Adrenal Myelolipoma. *Arch Pathol Lab Med* 2004; 128(6):703-704.

Nakajo M, Onohara S, Shinmura K, et al. Embolization for Spontaneous Retroperitoneal Hemorrhage from Adrenal Myelolipoma. *Radiat Med* 2003; 21(5):214-219.

Osborn M, Smith M, Senbanjo T, et al. Adrenal Myelolipoma—Clinical, Radiological and Cytological Findings. A Case Report. *Cytopathol* 2002; 13(4):242-246.

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Case No. 9, Accession No. 30091 March 2006

Alameda (Alameda County Medical Center) - Gastrointestinal stromal tumor
Alameda (Garfield Medical Center) - Gastrointestinal stromal tumor
Baldwin Park (Kaiser Permanente) - Gastrointestinal stromal tumor (3)
Fontana (Kaiser Permanente Hospital) - Gastrointestinal stromal tumor
Glendale - Malignant epithelioid gastrointestinal stromal tumor
Hayward/Fremont (St. Rose Hospital) - Gastrointestinal stromal tumor, probably malignant
Irvine (University of California Irvine) - Gastrointestinal stromal tumor, epithelioid variant
Loma Linda (Loma Linda University Medical Center Pathology Residents) - Gastrointestinal stromal tumor (GIST)
Long Beach (Lakewood Regional Medical Center) - GIST, malignant (10)
Monterey Park (Monterey Peninsula Pathologists) - Epithelioid gastrointestinal stromal tumor, favor malignant
Mountain View (El Camino Pathology) - Epithelioid GI stromal tumor
Orange (Orange County Medical Group) - GI stromal tumor
Oxnard (St. John's Regional Medical Center) - Gastrointestinal stromal tumor (3)
San Diego (Naval Medical Center) - Epithelioid gastrointestinal stromal tumor (1); Gastrointestinal stromal tumor (1)
Santa Barbara (Cottage Hospital) - Gastrointestinal stromal tumor, high risk
San Francisco (San Francisco General Hospital) - Epithelioid gastrointestinal stromal tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Gastrointestinal stromal tumor (3)
Ventura (UNILAB) - Gastrointestinal stromal tumor
Woodland Hills (Kaiser Permanente Medical Center) - Gastrointestinal stromal tumor (1); Epithelioid gastrointestinal stromal tumor

(1)
Arkansas (University of Arkansas Medical Center) - Gastrointestinal stromal tumor, small bowel
Colorado, Evergreen - Gastrointestinal stromal tumor
Florida (Jackson Memorial Hospital) - Gastrointestinal stromal tumor (GIST)
Florida, Tallahassee - Gastrointestinal stromal tumor, high malignant potential
Florida (The Pathology Group) - Epithelioid gastrointestinal stromal tumor (2); Gastrointestinal stromal tumor (3)
Florida (Winter Haven Hospital) - Gastrointestinal stromal tumor
Illinois (Naval Hospital Great Lakes) - Epithelioid gastrointestinal stromal tumor
Illinois, Oak Brook - Gastrointestinal stromal tumor
Illinois (Loyola University Medical Center) - Gastrointestinal stromal tumor, intermediate grade
Indiana (Ball Memorial Hospital) - Gastrointestinal stromal tumor
Indiana (Kokamo Pathologist Health System) - Gastrointestinal stromal tumor
Kentucky (University of Louisville Hospital) - Low-grade malignant gastrointestinal stromal tumor
Maryland (National Naval Medical Center) - Gastrointestinal stromal tumor (epithelioid)
Maryland (Northwestern Hospital Center) - Gangliocytic paraganglioma
Maryland (University of Maryland) - Epithelioid gastrointestinal stromal tumor
Massachusetts (New England Medical Center) - Gastrointestinal stromal tumor
Michigan (Oakwood Hospital) - Gastrointestinal stromal tumor
Minnesota (Fairview Ridges Hospital) - Gastrointestinal stromal tumor
Nebraska (Creighton University School of Medicine) - Gastrointestinal stromal tumor, malignant
New York (Long Island Jewish Medical Center) - Epithelioid gastrointestinal stromal tumor
New York (Nassau University Medical Center) - Gastrointestinal stromal tumor
New York (New York Stony Brook University Hospital Residents) - Epithelioid gastrointestinal stromal tumor
New York (SUNY Downstate Residents) - Epithelioid gastrointestinal stromal tumor
New York (Westchester Medical Center) - Gastrointestinal stromal tumor, borderline malignancy
North Carolina (Mountain Area Pathology) - Gastrointestinal stromal tumor (1); Epithelioid gastrointestinal stromal tumor (4)
Pennsylvania (Conemaugh Memorial Medical Center) - Gastrointestinal stromal tumor
Pennsylvania (Mt. Nittany Medical Center) - Malignant gastrointestinal stromal tumor, small bowel
Pennsylvania (Pennsylvania Hospital Residents) - Gastrointestinal stromal tumor
Texas, Lubbock - Malignant gastrointestinal stromal tumor
Texas (Propath Associates) - Gastrointestinal stromal tumor (2)
Texas (Wilford Hall Medical Center) - Gastrointestinal stromal tumor
Texas (Scott & White Memorial Hospital) - Gastrointestinal stromal tumor
West Virginia (Greenbrier Valley Medical Center) - Small bowel gastrointestinal stromal tumor
West Virginia (Wetzel County Hospital) - Malignant gastrointestinal stromal tumor
Wisconsin (Bellin Health) - Epithelioid GI stromal tumor
Wisconsin (Meriter Hospital) - Gastrointestinal stromal tumor, malignant
Wisconsin (Pathology Associates) - Gastrointestinal stromal tumor (2)
Australia (North Qld Pathology Group) - Gastrointestinal stromal tumor
Australia (Royal Hobart Hospital) - Gastrointestinal stromal tumor (GIST)
Australia (Royal Prince Alfred Hospital) - Gastrointestinal stromal tumor, epithelioid
Australia (Sullivan Nicolaides Pathology) - Gastrointestinal stromal tumor
Germany (UKE, Kerminstitut fur Pathologie) - Gastrointestinal stromal tumor, epithelioid
Ireland (Kerry General Hospital) - Gastrointestinal stromal tumor
Jamaica (The University of the West Indies) - Epithelioid gastrointestinal stromal tumor
Japan (Kyoto University Hospital) - Gastrointestinal stromal tumor
Japan (Nagoya University School of Medicine) - Epithelioid gastrointestinal stromal tumor
New Zealand (Otago Diagnostic Lab) - Epithelioid gastrointestinal stromal tumor, intermediate grade
Puerto Rico (University of Puerto Rico School of Medicine) - Gastrointestinal stromal tumor
Saudi Arabia (King Fahad National Guard Hospital) - Epithelioid gastrointestinal stromal tumor
Qatar (Hamad Medical Corporation) - Gastrointestinal stromal tumor, borderline

Case 9 - Diagnosis:

Gastrointestinal stromal tumor (GIST), small bowel
T-64000, M-88903

Case 9 – References:

Wang L, Vargas H and French SW. Cellular Origin of Gastrointestinal Stromal Tumors. A Study of 27 Cases. *Arch Pathol Lab Med* 2000; 124(10):1471-1475.
Hirota S, Isozaki K, Moriyama Y, et al. Gain-of-Function Mutations of C-Kit In Human Gastrointestinal Stromal Tumors. *Science* 1998; 279(5350):577-580.

Heinrich MC, Rubin BP, Longley BJ, et al. Biology and Genetic Aspects of Gastrointestinal Stromal Tumors. Kit Activation and Cytogenetic Alterations. *Hum Pathol* 2002; 33(5):484-495.
Fletcher CDM, Berman JJ, Corless C, et al. Diagnosis of Gastrointestinal Stromal Tumors. A Consensus Approach. *Hum Pathol* 2002; 33(5):459-477.
Gladell PP and Guzman-Hartman. A Single Institution Review of the National Institute of Health Recommendation for Prognostication of Gastrointestinal Stromal Tumors. *Hum Pathol* 2003; 34(5):512-513.

Case No. 10, Accession No. 30092 **March 2006**

Alameda (Alameda County Medical Center) - Hemangiopericytoma
Alameda (Garfield Medical Center) - Solitary fibrous tumor, hemangiopericytoma type
Baldwin Park (Kaiser Permanente) - Solitary fibrous tumor, hemangiopericytoma (1); Solitary fibrous tumor (2)
Fontana (Kaiser Permanente Hospital) - Hemangiopericytoma
Glendale - Solitary fibrous tumor
Hayward/Fremont (St. Rose Hospital) - Solitary fibrous tumor
Irvine (University of California Irvine) - Solitary fibrous tumor
Loma Linda (Loma Linda University Medical Center Pathology Residents) - Fibroma of tendon sheath
Long Beach (Lakewood Regional Medical Center) - Solitary fib;rous tumor (8); Hemangiopericytoma (2)
Monterey Park (Monterey Peninsula Pathologists) - Solitary fibrous tumor
Mountain View (El Camino Pathology) - Hemangiopericytoma
Orange (Orange County Medical Group) - Hemangioepithelioma
Oxnard (St. John's Regional Medical Center) - Kaposi (1); Synovial tumor with focal atypia (necrosis) (1); Hemangioendothelioma vs. Kaposi (1)
San Diego (Naval Medical Center) - Hemangiopericytoma (1); Epithelioid hemangioendothelioma (1); Solitary fibrous tumor (1)
Santa Barbara (Cottage Hospital) - Solitary fibrous tumor
San Francisco (San Francisco General Hospital) - Hemangiopericytoma
Santa Rosa (Santa Rosa Memorial Hospital) - Vascular tumor of unknown malignant potential (1); Vascular neoplasm of uncertain malignant potential (1); Hemangiopericytoma (1)
Ventura (UNILAB) - Epithelioid hemangioendothelioma
Woodland Hills (Kaiser Permanente Medical Center) - Hemangiopericytoma (2)
Arkansas (University of Arkansas Medical Center) - Hemangiopericytoma, posterior knee
Colorado, Evergreen - Solitary fibrous tumor
Florida (Jackson Memorial Hospital) - Hemangiopericytoma
Florida, Tallahassee - Hemangioma
Florida (The Pathology Group) - Hemangiopericytoma (5)
Florida (Winter Haven Hospital) - Kaposi's hemangioendothelioma
Illinois (Naval Hospital Great Lakes) - Cellular solitary fibrous tumor
Illinois, Oak Brook - Solitary fibrous tumor
Illinois (Loyola University Medical Center) - Solitary fibrous tumor
Indiana (Ball Memorial Hospital) - Hemangiopericytoma
Indiana (Kokamo Pathologist Health System) - Kaposi's sarcoma
Kentucky (University of Louisville Hospital) - Hemangiopericytoma
Maryland (National Naval Medical Center) - Hemangiopericytoma
Maryland (Northwestern Hospital Center) - Pleomorphic hyalinized angiectatic tumor
Maryland (University of Maryland) - Hemangiopericytoma
Massachusetts (New England Medical Center) - Hemangiopericytoma
Michigan (Oakwood Hospital) - Solitary fibrous tumor
Minnesota (Fairview Ridges Hospital) - Hemangiopericytoma
Nebraska (Creighton University School of Medicine) - Hemangiopericytoma
New York (Long Island Jewish Medical Center) - Solitary fibrous tumor
New York (Nassau University Medical Center) - Solitary fibrous tumor
New York (New York Stony Brook University Hospital Residents) - Hemangiopericytoma
New York (SUNY Downstate Residents) - Solitary fibrous tumor vs. Kaposi sarcoma
New York (Westchester Medical Center) - Spindle cell hemangioma
North Carolina (Mountain Area Pathology) - Solitary fibrous tumor (4); Hemangiopericytoma (1)
Pennsylvania (Conemaugh Memorial Medical Center) - Solitary fibrous tumor/hemangiopericytoma
Pennsylvania (Mt. Nittany Medical Center) - Solitary fibrous tumor, left knee
Pennsylvania (Pennsylvania Hospital Residents) - Epithelioid hemangioendothelioma
Texas, Lubbock - Clear cell sarcoma
Texas (Propath Associates) - Hemangiopericytoma (1); Benign hemangiopericytoma (1)
Texas (Wilford Hall Medical Center) - Solitary fibrous tumor

Texas (Scott & White Memorial Hospital) - Solitary fibrous tumor
West Virginia (Greenbrier Valley Medical Center) - Hemangiopericytoma vs. synovial sarcoma
West Virginia (Wetzel County Hospital) - Hemangiopericytoma
Wisconsin (Bellin Health) - Dermatofibrosarcoma protuberans
Wisconsin (Meriter Hospital) - Solitary fibrous tumor
Wisconsin (Pathology Associates) - Soft tissue neoplasm, hemangioendothelioma (1); Spindle cell hemangioendothelioma (1)
Australia (North Qld Pathology Group) - Hemangiopericytoma
Australia (Royal Hobart Hospital) - Solitary fibrous tumor
Australia (Royal Prince Alfred Hospital) - Solitary fibrous tumor
Australia (Sullivan Nicolaides Pathology) - Solitary fibrous tumor (hemangiopericytomatous pattern)
Germany (UKE, Kerminstitut fur Pathologie) - Solitary fibrous tumor
Ireland (Kerry General Hospital) - Solitary fibrous tumor
Jamaica (The University of the West Indies) - Hemangiopericytoma
Japan (Kyoto University Hospital) - Soliltary fibrous tumor
Japan (Nagoya University School of Medicine) - Dermatofibrosarcoma protuberans
New Zealand (Otago Diagnostic Lab) - Hemangiopericytoma
Puerto Rico (University of Puerto Rico School of Medicine) - Hemangiopericytoma/solitary fibrous tumor
Saudi Arabia (King Fahad National Guard Hospital) - Hemangiopericytoma
Qatar (Hamad Medical Corporation) - Hemangioendothelioma (4); Hemangiopericytoma/solitary fibrous tumor (4)

Case 10 - Diagnosis:

Hemangiopericytoma/solitary fibrous tumor, lower extremity
T-Y9220, M-90510

Director's note: There is a trend to view these two diagnoses as a spectrum of the same tumor. (drc)

Case 10 - References:

Goodlad JR and Fletcher CD. Solitary Fibrous Tumor Arising in Unusual Sites. Analysis of a Series. *Histopathol* 1991; 19(6):515-522.
Witkins GB and Rosai J. Solitary Fibrous Tumor of the Mediastinum. *Am J Surg Pathol* 1989; 13(7):547-557.
Yamaguchi T, Takimoto T, Yamashita T, et al. Fat-Containing Variant of Solitary Fibrous Tumor (Lipomatous Hemangiopericytoma) Arising on Surface of Kidney. *Urol* 2005; 65(1):175.
Cameselle-Teijeiro J, Lopes Manuel J, Vilanueva JP, et al. Lipomatous Haemangiopericytoma (Adipocytic Variant of Solitary Fibrous Tumour) of the Thyroid. *Histopath* 2003; 43(4):406-408.
Espat NJ, Lewis JJ, Leung D, et al. Conventional Hemangiopericytoma. Modern Analysis of Outcome. *Cancer* 2002; 95(8):1746-1751.