



CALIFORNIA
TUMOR TISSUE REGISTRY

GENERAL PATHOLOGY

Minutes – Subscription A

January, 2009



SUGGESTED READING (General Topics from Recent Literature):

- Improved Survival for Fallopian Tube Cancer. A Comparison of Clinical Characteristics and Outcome for Primary Fallopian Tube and Ovarian Cancer. Wethington SL, Herzog TJ, et al. *Cancer* 2008; 113:3298-3306.
- The Natural History of Hereditary Pancreatitis. A National Series. Rebours V, Boutron-Ruault M-C, et al. *Gut* 2009; 58:97-103.
- Analysis of c KIT Expression and KIT Gene Mutation in Human Mucosal Melanomas. Satzger I, Schaefer T, et al. *Br J Cancer* 2008; 99:2065-2069.
- Carcinomas of the Pancreas, Gallbladder, Extrahepatic Bile Ducts, and Ampulla of Vater Share a Field for Carcinogenesis. A Population-Based Study. Henson DE, Schwartz Am, et al. *Arch Pathol Lab Med* 2009; 133:67-71.
- Do Clear Cell Ovarian Carcinomas Have Poorer Prognosis Compared to Other Epithelial Cell Types? A Study of 1411 Clear Cell Ovarian Cancers. Chan JK, Teoh D, et al. *Gynecol Oncol* 2008; 109:370-376.

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FILE DIAGNOSES

CTTR Subscription A

January 2009

Case 1:

Intra-abdominal/mesenteric fibromatosis
T-Y4100, M-76100

Case 2:

Juvenile granulosa cell tumor, ovary
T-87800, M-86201

Case 3:

Adult granulosa cell tumor, ovary
T-87000, M-95800

Case 4:

Hashimotos thyroiditis and involution changes due to treatment effects for Graves disease
T-96000, M-72003

Case 5:

Pheochromocytoma, adrenal
T-93020, M-87000

Case 6:

Paranglioma, retroperitoneum
T-Y4600, M-86931

Case 7:

Castleman's disease, parotid and lymph nodes
T-55100/T-08140/M-40000/M-72260

Case 8:

Intramuscular hemangioma, back
T-Y1100, M-91320

Case 9:

Sclerosing hemangioma, lung
T-28000, M-88320

Case 10:

Vascular leiomyosarcoma, retroperitoneum (soft tissue section AFIP)
T-Y4600, M-88903

Fontana (Kaiser Foundation Hospital) - Myofibroblastic tumor
Glendale - Mesenteric fibromatosis
Long Beach (Long Beach VA Hospital) - Desmoid tumor (2)
Oakland - Stromal tumor
Oakland (Alameda County Medical Center) - Mesenteric fibromatosis
Orange (St. Joseph Hospital) - Favor desmoid tumor
Orinda (Kaiser Permanente) - Desmoid type fibromatosis
Oxnard (St. John's Regional Medical Center) - Fibromatosis
Pleasant Hill - Fibromatosis, abdominal
San Diego (Naval Medical Center) - Fibromatosis
San Diego (Scripps Clinic) - Myxoid malignant peripheral nerve sheath tumor
Woodland Hills (Kaiser Permanente) - Fibromatosis
Alabama (Cunningham Pathology LLC) - Intra-abdominal mesenteric fibromatosis
Chicago, Illinois - Mesenteric fibromatosis (2)
Colorado, Fort Collins - Fibromatosis
Florida (Naples Pathology Associates) - Malignant peripheral nerve sheath tumor
Georgia, Decatur - High grade sarcoma; dedifferentiated liposarcoma
Illinois, Burr Ridge - Schwannoma
Illinois (Heartland Regional Medical Center) - Myxofibrosarcoma (possible component of dedifferentiated liposarcoma)
Illinois (Loyola University of Medicine) - Fibromatosis/desmoids tumor, mesentery
Kansas (Cytocheck Laboratory) - Fibromatosis (1); Myofibroblastic tumor (1)
Louisiana (Delta Pathology Midlouisiana) - Low grade sarcoma
Louisiana (LSUHSC) - Desmoid fibromatosis
Massachusetts (Tufts-New England Medical Center) - Fibrosarcoma, low grade
Michigan (Oakwood Hospital) - Mesenteric fibromatosis
Minnesota (Fairview Ridges Hospital) - Desmoid, fibromatosis
Minnesota (University of Minnesota Oral and Maxillofacial Pathology) - Low grade fibrosarcoma
Missouri (Missouri Delta Medical Center) - Fibromatosis
Nebraska (Creighton University Medical Center) - Low grade myxoid fibrosarcoma
New Mexico (Albuquerque) - Fibromatosis (desmoid)
New Mexico (University of New Mexico) - Intra-abdominal desmoid tumor
New York (Albany Medical Center) - Low grade fibromyxoid sarcoma
New York (Long Island Jewish Hospital) - Fibromatosis
New York (SUNY Stony Brook University Hospital) - Fibromatosis
New York (SUNY Downstate Medical Center) - Fibromatosis
New York (Westchester Medical Center) - Perineuroma
North Carolina (Wake Forest University) - Fibroma
Ohio (University of Toledo College of Medicine) - Mesenteric fibromatosis (2)
Pennsylvania (Drexel University College of Medicine) - Desmoid fibromatosis
Pennsylvania (Lehigh Valley Hospital) - Fibromyxoid sarcoma
Pennsylvania (Magee Women's Hospital) - Mesenteric fibromatosis
Puerto Rico (University of Puerto Rico) - Mesenteric fibromatosis
South Dakota (LCM Pathologists), PC - Chondroid syringoma
Texas, Crystal Beach - Sarcomatoid carcinoma
Texas, Houston - Fibromatosis
Texas, Lubbock - Fibrous mesothelioma
Texas (Scott & White Memorial Hospital) - Mesenteric fibromatosis
Texas, Shavanno Park - Fibromatosis
Washington, Seattle VAMC - Benign fibroproliferative lesion
Wisconsin, Madison - Soft tissue perineuroma
Australia (Royal Hobart Hospital) - Intra-abdominal fibromatosis
Brazil (Federal University of Sao Paulo) - Fibromatosis
Canada (Pasqua Hospital) - Mesenteric fibromatosis
Canada (University of Sherbrooke) - Mesenteric fibromatosis

Ireland (Beaumont Hospital) - Low grade fibromyxoid sarcoma
Ireland (Kerry General Hospital) - Mesenteric fibromatosis
Japan (Asahi General Hospital) - Malignant fibrous histiocytoma, myxoid type
Japan (Kyoto University Hospital) - Demoid-like fibromatosis, mesentery
Japan (Shizuoka Tokushukei Hospital) - Mesenteric fibromatosis

Case 1 - Diagnosis:

Intra-abdominal/mesenteric fibromatosis
T-Y4100, M-76100

Case 1 - References:

Lee CK, Hadley A, Desilva K, Smith G, et al. When is a GIST Not a GIST? A Case Report of Synchronous Metastatic Gastrointestinal Stromal Tumor and Fibromatosis. *World J Surg Oncol* 2009; 7-8.
Church J, Lynch C, Neary P, et al. A Desmoid Tumor-Staging System Separates Patients with Intra-Abdominal, Familial Adenomatous Polyposis-Associated Desmoid Disease By Behavior and Prognosis. *Dis Colon Rectum* 2008;51(6):897-901.
Collins D, Myers E, Kavanagh D, et al. Mesenteric Desmoid Tumor Causing Ureteric Obstruction. *Int J Urol* 2008;15(3):261-262.
Durno C, Monga N, Bapat B, et al. Does Early Colectomy Increase Desmoid Risk in Familial Adenomatous Polyposis? *Clin Gastroenterol Hepatol* 2007; 5(10):1190-1194.
Kreuzberg B, Koudelova J, Ferda J, et al. Diagnostic Problems of Abdominal Desmoid Tumors in Various Locations. *Eur J Radiol* 2007; 62(2):180-185.
Rosato L, Mondini G, Serbelloni M, Bertone P, et al. Intra-Abdominal Desmoid Tumors. Rare But Important Disease. *G Chir* 2007; 28(1-2):20-24.

Case No. 2, Accession No. 30658

January 2009

Fontana (Kaiser Foundation Hospital) - Thecoma
Glendale - Juvenile granulosa cell tumor
Long Beach (Long Beach VA Hospital) - Juvenile granulosa cell tumor (2)
Oakland - Granulosa cell tumor (juvenile)
Oakland (Alameda County Medical Center) - Juvenile granulosa cell tumor
Orange (St. Joseph Hospital) - Juvenile granulosa cell tumor
Orinda (Kaiser Permanente) - Sex cord stromal tumor, favor juvenile granulosa cell tumor
Oxnard (St. John's Regional Medical Center) - Juvenile granulosa cell tumor
Pleasant Hill - Granulosa cell tumor, juvenile
San Diego (Naval Medical Center) - Juvenile granulosa cell tumor
San Diego (Scripps Clinic) - Juvenile granulosa cell tumor
Woodland Hills (Kaiser Permanente) - Juvenile granulosa cell tumor
Alabama (Cunningham Pathology LLC) - Juvenile granulosa cell tumor
Chicago, Illinois - Juvenile granulosa cell tumor (2)
Colorado, Fort Collins - Juvenile granulosa cell tumor
Florida (Naples Pathology Associates) - Juvenile granulosa cell tumor
Georgia, Decatur - Lutenized thecoma
Illinois, Burr Ridge - Juvenile granulosa cell tumor
Illinois (Heartland Regional Medical Center) - Juvenile granulosa cell tumor
Illinois (Loyola University of Medicine) - Juvenile granulosa cell tumor, ovary
Kansas (Cytocheck Laboratory) - Juvenile granulosa cell tumor (1); Embryonal carcinoma (1)
Louisiana (Delta Pathology Midlouisiana) - Juvenile granulosa cell tumor
Louisiana (LSUHSC) - Juvenile granulosa cell tumor
Massachusetts (Tufts-New England Medical Center) - Juvenile granulosa cell tumor
Michigan (Oakwood Hospital) - Juvenile granulosa cell tumor
Minnesota (Fairview Ridges Hospital) - Juvenile granulosa cell tumor
Minnesota (University of Minnesota Oral and Maxillofacial Pathology) - - Sex cord stromal tumor, NOS (thecoma vs. steroid cell)

Missouri (Missouri Delta Medical Center) - Fibrothecoma (fibrothecoma)
Nebraska (Creighton University Medical Center) - Juvenile granulosa cell tumor
New Mexico (Albuquerque) - Juvenile granulosa tumor
New Mexico (University of New Mexico) - Juvenile granulosa cell tumor
New York (Albany Medical Center) - Juvenile granulosa cell tumor
New York (Long Island Jewish Hospital) - Juvenile granulosa cell tumor
New York (SUNY Stony Brook University Hospital) - Juvenile granulosa cell tumor
New York (SUNY Downstate Medical Center) - Juvenile granular cell tumor
New York (Westchester Medical Center) - Juvenile granulosa cell tumor
North Carolina (Wake Forest University) - Fibrothecoma with focal luteinization
Ohio (University of Toledo College of Medicine) - Juvenile GCT
Pennsylvania (Drexel University College of Medicine) - Juvenile granulosa cell tumor
Pennsylvania (Lehigh Valley Hospital) - Juvenile granulosa cell tumor
Pennsylvania (Magee Women's Hospital) - Juvenile granulosa cell tumor
Puerto Rico (University of Puerto Rico) - Juvenile granulosa cell tumor
South Dakota (LCM Pathologists), PC - Metastatic nasopharyngeal carcinoma
Texas, Crystal Beach - Thecoma
Texas, Houston - Juvenile granulosa cell tumor
Texas, Lubbock - Granulosa cell tumor
Texas (Scott & White Memorial Hospital) - Juvenile granulosa cell tumor
Texas, Shavanno Park - Juvenile granulosa cell tumor
Washington, Seattle VAMC - Lipid/steroid cell neoplasm
Wisconsin, Madison - Granulosa cell tumor
Australia (Royal Hobart Hospital) - Juvenile granulosa cell tumor
Brazil (Federal University of Sao Paulo) - Juvenile granulosa cell tumor
Canada (Pasqua Hospital) - Juvenile granulosa cell tumor
Canada (University of Sherbrooke) - Granulosa cell tumor (juvenile type)
Ireland (Beaumont Hospital) - Juvenile granulosa cell tumor
Ireland (Kerry General Hospital) - Juvenile granulose cell tumor
Japan (Asahi General Hospital) - Juvenile granulosa cell tumor
Japan (Kyoto University Hospital) - Sex cord stromal tumor, poorly differentiated, right ovary
Japan (Shizuoka Tokushukei Hospital) - Juvenile granulosa cell tumor

Case 2 - Diagnosis:

Juvenile granulosa cell tumor, ovary
 T-87000, M-86201

Case 2 - References:

Kalfa N, Philbert P, Patte C, et al. Juvenile Granulosa-Cell Tumor. Clinical and Molecular Expression. *Gynecol Obstet Fertil* 2009; 37(1):33-44.
 Irving JA and Young RH. Granulosa Cell Tumors of the Ovary with a Pseudopapillary Pattern. A Study of 14 Cases of an Unusual Morphologic Variant Emphasizing their Distinction from Transitional Cell Neoplasms and Other Papillary Ovarian Tumors. *Am J Surg Pathol* 2008; 32(4):581-586.
 Oliva E, Garcia-Miralles N, Vu Q, et al. CD10 Expression in Pure Stromal and Sex Cord-Stromal Tumors of the Ovary. An Immunohistochemical Analysis of 101 Cases. *Int J Gynecol Pathol* 2007; 26(4):359-367.
 Piura B, Wiznitzer A and Shaco-Levy R. Juvenile Granulosa Cell Tumor of the Ovary Associated with Hypercalcemia. *Arch Gynecol Obstet* 2008; 277(3):257-262.

Case No. 3, Accession No. 30590

January 2009

Fontana (Kaiser Foundation Hospital) - Granulosa cell tumor
Glendale - Sarcoma
Long Beach (Long Beach VA Hospital) - Granulosa cell tumor (2)
Oakland - Granulosa cell tumor
Oakland (Alameda County Medical Center) - Adult granulosa cell tumor

Orange (St. Joseph Hospital) - Granulosa cell tumor
Orinda (Kaiser Permanente) - Granulosa cell tumor
Oxnard (St. John's Regional Medical Center) - Granulosa cell tumor
Pleasant Hill - Granulosa cell tumor
San Diego (Naval Medical Center) - Adult granulosa cell tumor
San Diego (Scripps Clinic) - Adult granulosa cell tumor
Woodland Hills (Kaiser Permanente) - Thecoma
Alabama (Cunningham Pathology LLC) - Granulosa cell tumor
Chicago, Illinois - Granulosa cell tumor, poorly differentiated (2)
Colorado, Fort Collins - Granulosa cell tumor
Florida (Naples Pathology Associates) - Endometrial stromal sarcoma
Georgia, Decatur - Adult granulosa cell tumor
Illinois, Burr Ridge - Adult granulosa cell tumor
Illinois (Heartland Regional Medical Center) - Adult granulosa cell tumor
Illinois (Loyola University of Medicine) - Adult granulosa cell tumor, diffuse pattern, ovary
Kansas (Cytocheck Laboratory) - Sex cord stromal tumor (2)
Louisiana (Delta Pathology Midlouisiana) - Thecoma
Louisiana (LSUHSC) - Adult granulosa cell tumor
Massachusetts (Tufts-New England Medical Center) - Adult granulosa cell tumor
Michigan (Oakwood Hospital) - Adult granulosa cell tumor
Minnesota (Fairview Ridges Hospital) - Adult granulosa cell tumor
Minnesota (University of Minnesota Oral and Maxillofacial Pathology) - Granulosa cell tumor
Missouri (Missouri Delta Medical Center) - Sarcoma (NOS)
Nebraska (Creighton University Medical Center) - Adult granulosa cell tumor
New Mexico (Albuquerque) - Adult granulosa cell tumor
New Mexico (University of New Mexico) - Adult granulosa cell tumor, diffuse pattern
New York (Albany Medical Center) - Adult granulosa cell tumor
New York (Long Island Jewish Hospital) - Adult granulosa cell tumor
New York (SUNY Stony Brook University Hospital) - Adult granulosa cell tumor
New York (SUNY Downstate Medical Center) - Sex cord stromal tumor of ovary favor sertoli cell tumor
New York (Westchester Medical Center) - Adult granulosa cell tumor
North Carolina (Wake Forest University) - Adult granulosa cell tumor, diffuse pattern
Ohio (University of Toledo College of Medicine) - Adult GCT (2)
Pennsylvania (Drexel University College of Medicine) - Granulosa cell tumor
Pennsylvania (Lehigh Valley Hospital) - Thecoma
Pennsylvania (Magee Women's Hospital) - Adult granulosa cell tumor
Puerto Rico (University of Puerto Rico) - Adult granulosa cell tumor
South Dakota (LCM Pathologists), PC - Invasive ductal carcinoma
Texas, Crystal Beach - Adnexal wolffian tumor
Texas, Houston - Sex cord tumor, malignant
Texas, Lubbock - Granulosa cell tumor
Texas (Scott & White Memorial Hospital) - Adult granulosa cell tumor
Texas, Shavano Park - Granulosa cell tumor
Washington, Seattle VAMC - Adult granulosa cell tumor, sarcomatoid growth
Wisconsin, Madison - Granulosa cell tumor
Australia (Royal Hobart Hospital) - Granulosa cell tumor (adult type)
Brazil (Federal University of Sao Paulo) - Granulosa cell tumor
Canada (Pasqua Hospital) - Adult granulosa cell tumor
Canada (University of Sherbrooke) - Granulosa cell tumor
Ireland (Beaumont Hospital) - Adult granulosa cell tumor
Ireland (Kerry General Hospital) - Adult granulosa cell tumor
Japan (Asahi General Hospital) - Adult granulosa cell tumor
Japan (Kyoto University Hospital) - Granulosa cell tumor, left ovary
Japan (Shizuoka Tokushukei Hospital) - Endometrioid stromal sarcoma

Case 3 - Diagnosis:

Adult granulosa cell tumor, ovary
T-87000, M-95800

Case 3 - References:

- Li W, Wu X, Fang C, et al. Prognostic Factors in Adult Granulosa Cell Tumor of the Ovary. *Saudi Med J* 2009; 30(2):247-252.
- Gupta A, Mathur SK, Reddy CP, et al. Testicular Granulosa Cell Tumor, Adult Type. *Indiana J Pathol Microbiol* 2008; 51(3):405-406.
- Jamieson S and Fuller PJ. Management of Granulosa Cell Tumour of the Ovary. *Curr Opin Oncol* 2008; 20(5):560-564.
- Chu S, Alexiadis M and Fuller PJ. Expression, Mutational Analysis and in Vitro Response of Imatinib Mesylate and Nilotinib Target Genes in Ovarian Granulosa Cell Tumors. *Gynecol Oncol* 2008; 108(1):182-190.
- Villella J, Herrmann FR, Kaul S, et al. Clinical and Pathological Predictive Factors in Women with Adult-Type Granulosa Cell Tumor of the Ovary. *Int J Gynecol Pathol* 2007; 26(2):154-159.

Case No. 4, Accession No. 30601

January 2009

Fontana (Kaiser Foundation Hospital) - Hashimoto's thyroiditis
Glendale - Lymphocytic thyroiditis
Long Beach (Long Beach VA Hospital) - Hashimoto's thyroiditis (2)
Oakland - Hashimoto's vs. NS Hodgkins disease
Oakland (Alameda County Medical Center) - Lymphocytic thyroiditis
Orange (St. Joseph Hospital) - Lymphocytic thyroiditis
Orinda (Kaiser Permanente) - Chronic lymphocytic thyroiditis
Oxnard (St. John's Regional Medical Center) - Hashimoto's
Pleasant Hill - Fibrous variant Hashimoto's thyroiditis
San Diego (Naval Medical Center) - Extranodal marginal zone lymphoma
San Diego (Scripps Clinic) - Hashimoto's thyroiditis
Woodland Hills (Kaiser Permanente) - Reidel's thyroiditis
Alabama (Cunningham Pathology LLC) - Reidel's thyroiditis
Chicago, Illinois - Hashimoto's disease (2)
Colorado, Fort Collins - Nodular Hashimoto's
Florida (Naples Pathology Associates) - Hashimoto's thyroiditis
Georgia, Decatur - Lymphocytic thyroiditis
Illinois, Burr Ridge - P.D. thyroid carcinoma
Illinois (Heartland Regional Medical Center) - Lymphocytic thyroiditis with fibrosis
Illinois (Loyola University of Medicine) - Hashimoto thyroiditis, thyroid
Kansas (Cytocheck Laboratory) - Lymphocytic thyroiditis, rule out lymphoproliferative disorder (1); Hashimoto's thyroiditis (1)
Louisiana (Delta Pathology Midlouisiana) - Lymphoma (small cell) arising in Hashimoto's
Louisiana (LSUHSC) - Lymphocytic thyroiditis
Massachusetts (Tufts-New England Medical Center) - Hashimoto's thyroiditis
Michigan (Oakwood Hospital) - Lymphocytic, thyroiditis
Minnesota (Fairview Ridges Hospital) - Hashimoto's thyroiditis, transformation to marginal zone lymphoma
Minnesota (University of Minnesota Oral and Maxillofacial Pathology) - Hashimoto's with c-cell hyperplasia
Missouri (Missouri Delta Medical Center) - Hashimoto's thyroiditis
Nebraska (Creighton University Medical Center) - Hashimoto's thyroiditis
New Mexico (Albuquerque) - Hashimoto's thyroiditis
New Mexico (University of New Mexico) - Hashimoto's thyroiditis
New York (Albany Medical Center) - Medullary carcinoma
New York (Long Island Jewish Hospital) - Hashimoto's thyroiditis
New York (SUNY Stony Brook University Hospital) - Plasmacytoma vs. plasma cell granuloma
New York (SUNY Downstate Medical Center) - Hashimoto's thyroiditis with reactive atypia
New York (Westchester Medical Center) - Hashimoto's thyroiditis

North Carolina (Wake Forest University) - Hashimoto's thyroiditis
Ohio (University of Toledo College of Medicine) - Fibrosing (Riedel) thyroiditis (2)
Pennsylvania (Drexel University College of Medicine) - Hashimoto thyroiditis
Pennsylvania (Lehigh Valley Hospital) - Hashimoto's thyroiditis
Pennsylvania (Magee Women's Hospital) - Plasmacytoma amyloid
Puerto Rico (University of Puerto Rico) - Extranodal marginal zone lymphoma of mucosa-associated lymphoid tissue (MALT lymphoma)
South Dakota (LCM Pathologists), PC - Dysgerminoma
Texas, Crystal Beach - Lymphocytic thyroiditis
Texas, Houston - Hashimoto's thyroiditis
Texas, Lubbock - Hashimoto's thyroiditis
Texas (Scott & White Memorial Hospital) - Fibrous variant of Hashimoto's thyroiditis
Texas, Shavanno Park - Follicular variant papillary thyroid carcinoma
Washington, Seattle VAMC - Hashimoto's thyroiditis
Wisconsin, Madison - Hashimoto's disease
Australia (Royal Hobart Hospital) - Fibrous variant of Hashimoto's thyroiditis
Brazil (Federal University of Sao Paulo) - Hashimoto's thyroiditis (fibrous variant)
Canada (Pasqua Hospital) - Hashimoto's thyroiditis
Canada (University of Sherbrooke) - Hashimoto's thyroiditis
Ireland (Beaumont Hospital) - Chronic thyroiditis, favor Hashimoto
Ireland (Kerry General Hospital) - Autoimmune (lymphocytic) thyroiditis
Japan (Asahi General Hospital) - Riedle's thyroiditis and Hashimoto thyroiditis
Japan (Kyoto University Hospital) - Hashimoto's thyroiditis
Japan (Shizuoka Tokushukei Hospital) - Plasma cell granuloma

Case 4 - Diagnosis:

Hashimotos thyroiditis and involution changes due to treatment effects for Graves disease
 T-96000, M-72003

Directors Note: Unintentionally omitted from the clinical data was a history of Graves disease, treated with radioactive iodine. In addition to Hashimotos thyroiditis, there are the involutional effects of the therapy. (drc)

Case 4 - References:

Roura-Mir C, Catalfamo M, Cheng TY, et al. CD1a and CD1c Activate Intrathyroidal T-Cells During Graves' Disease and Hashimoto's Thyroiditis. *J Immunol* 2005; 174(6): 3773-3780.
 Tomer Y, Ban Y, Concepcion E, et al. Common and Unique Susceptibility Loci in Graves and Hashimoto Diseases. Results of Whole-Genome Screening in a Data Set of 102 Multiplex Families. *Am J Hum Genet* 2003; 73(4):736-747.
 Thompson LD. Diffuse Hyperplasia of the Thyroid Gland (Graves' Disease). *Ear Nose Throat J* 2007; 86(11):666-667.
 Nakamura H, Usa T, Motomura M, et al. Prevalence of Interrelated Autoantibodies in Thyroid Diseases and Autoimmune Disorders. *J Endocrinol Invest* 2008; 31(10):861-865.

Case No. 5, Accession No. 30760

January 2009

Fontana (Kaiser Foundation Hospital) - Pheochromocytoma
Glendale - Pheochromocytoma
Long Beach (Long Beach VA Hospital) - Pheochromocytoma (2)
Oakland - Pheochromocytoma
Oakland (Alameda County Medical Center) - Pheochromocytoma
Orange (St. Joseph Hospital) - Pheochromocytoma
Orinda (Kaiser Permanente) - Adenoma
Oxnard (St. John's Regional Medical Center) - Pheochromocytoma
Pleasant Hill - Pheochromocytoma
San Diego (Naval Medical Center) - Pheochromocytoma

San Diego (Scripps Clinic) - Pheochromocytoma
Woodland Hills (Kaiser Permanente) - Adrenal cortical adenoma
Alabama (Cunningham Pathology LLC) - Pheochromocytoma
Chicago, Illinois - Pheochromocytoma (2)
Colorado, Fort Collins - Pheochromocytoma
Florida (Naples Pathology Associates) - Adrenocortical carcinoma
Georgia, Decatur - Adrenocortical carcinoma
Illinois, Burr Ridge - Pheochromocytoma
Illinois (Heartland Regional Medical Center) - Pheochromocytoma
Illinois (Loyola University of Medicine) - Pheochromocytoma, adrenal
Kansas (Cytocheck Laboratory) - Pheochromocytoma (1); Adrenal cortical adenoma (1)
Louisiana (Delta Pathology Midlouisiana) - Adrenal cortical adenoma
Louisiana (LSUHSC) - Pheochromocytoma
Massachusetts (Tufts-New England Medical Center) - Pheochromocytoma
Michigan (Oakwood Hospital) - Pheochromocytoma
Minnesota (Fairview Ridges Hospital) - Pheochromocytoma
Minnesota (University of Minnesota Oral and Maxillofacial Pathology) - Pheochromocytoma
Missouri (Missouri Delta Medical Center) - Pheochromocytoma
Nebraska (Creighton University Medical Center) - Pheochromocytoma adrenal
New Mexico (Albuquerque) - Pheochromocytoma
New Mexico (University of New Mexico) - Pheochromocytoma
New York (Albany Medical Center) - Pheochromocytoma
New York (Long Island Jewish Hospital) - Pheochromocytoma
New York (SUNY Stony Brook University Hospital) - Pheochromocytoma
New York (SUNY Downstate Medical Center) - Pheochromocytoma
New York (Westchester Medical Center) - Pheochromocytoma
North Carolina (Wake Forest University) - Pheochromocytoma
Ohio (University of Toledo College of Medicine) - Pheochromocytoma (2)
Pennsylvania (Drexel University College of Medicine) - Pheochromocytoma
Pennsylvania (Lehigh Valley Hospital) - Pheochromocytoma
Pennsylvania (Magee Women's Hospital) - Adrenal cortical adenoma
Puerto Rico (University of Puerto Rico) - Pheochromocytoma
South Dakota (LCM Pathologists), PC - Krukenburg tumor
Texas, Crystal Beach - Carcinoma cortical
Texas, Houston - Adrenal cortical adenoma
Texas, Lubbock - Pheochromocytoma
Texas (Scott & White Memorial Hospital) - Pheochromocytoma
Texas, Shavanno Park - Adrenocortical neoplasm
Washington, Seattle VAMC - Adrenal pheochromocytoma
Wisconsin, Madison - Pheochromocytoma
Australia (Royal Hobart Hospital) - Pheochromocytoma
Brazil (Federal University of Sao Paulo) - Composite pheochromocytoma
Canada (Pasqua Hospital) - Pheochromocytoma
Canada (University of Sherbrooke) - Pheochromocytoma
Ireland (Beaumont Hospital) - Pheochromocytoma
Ireland (Kerry General Hospital) - Pheochromocytoma
Japan (Asahi General Hospital) - Pheochromocytoma
Japan (Kyoto University Hospital) - Pheochromocytoma, left adrenal
Japan (Shizuoka Tokushukei Hospital) - Pheochromocytoma

Case 5 - Diagnosis:

Pheochromocytoma, adrenal
 T-93020, M-87000

Case 5 - References:

Kazaryan AM, Marangos IP, Rosseland AR, et al. Laparoscopic Adrenalectomy. Norwegian Single-Center Experience of 242 Procedures. *J Laparoendosc Adv Surg Tech A* 2009.

Niveditha SR, Suguna BV, et al. Cytologic Features of Malignant Cystic Pheochromocytoma. A Case Report. *Acta Cytol* 2007; 51(2):200-202.

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

Gao B, Meng F, Bian W, et al. Development and Validation of Pheochromocytoma of the Adrenal Gland Scaled Score for Predicting Malignant Pheochromocytomas. *Urol* 2006; 68(2):282-286.

Yeo H and Roman S. Pheochromocytoma and Functional Paraganglioma. *Curr Opin Oncol* 2005; 17(1):13-18.

Kudva YC, Sawka AM and Young WF. Clinical Review 164. The Laboratory Diagnosis of Adrenal Pheochromocytoma. The Mayo Clinic Experience. *J Clin Endocrinol Metab* 88(10) 2003; 4533-4539.

Case No. 6, Accession No. 30725

January 2009

Fontana (Kaiser Foundation Hospital) - Paraganglioma

Glendale - Paraganglioma

Long Beach (Long Beach VA Hospital) - Paraganglioma (pheochromocytoma if arising from adrenal) (2)

Oakland - Paraganglioma

Oakland (Alameda County Medical Center) - Retroperitoneal extra-adrenal abdominal paraganglioma

Orange (St. Joseph Hospital) - Extra-adrenal pheochromocytoma

Orinda (Kaiser Permanente) - Paraganglioma

Oxnard (St. John's Regional Medical Center) - Paraganglioma

Pleasant Hill - Pheochromocytoma

San Diego (Naval Medical Center) - Extra-adrenal paraganglioma

San Diego (Scripps Clinic) - Paraganglioma

Woodland Hills (Kaiser Permanente) - Paraganglioma

Alabama (Cunningham Pathology LLC) - Pheochromocytoma

Chicago, Illinois - Pheochromocytoma (2)

Colorado, Fort Collins - Paraganglioma

Florida (Naples Pathology Associates) - Paraganglioma

Georgia, Decatur - Paraganglioma

Illinois, Burr Ridge - Pheochromocytoma, malignant

Illinois (Heartland Regional Medical Center) - Extra-adrenal paraganglioma

Illinois (Loyola University of Medicine) - Pheochromocytoma, retroperitoneum

Kansas (Cytocheck Laboratory) - Pheochromocytoma (1); Paraganglioma (1)

Louisiana (Delta Pathology Midlouisiana) - Pheochromocytoma

Louisiana (LSUHSC) - Extra-adrenal pheochromocytoma

Massachusetts (Tufts-New England Medical Center) - Paraganglioma

Michigan (Oakwood Hospital) - Extra-adrenal pheochromocytoma

Minnesota (Fairview Ridges Hospital) - Extra-adrenal paraganglioma

Minnesota (University of Minnesota Oral and Maxillofacial Pathology) - Paraganglioma

Missouri (Missouri Delta Medical Center) - Pheochromocytoma, extra-adrenal

Nebraska (Creighton University Medical Center) - Pheochromocytoma extra-adrenal

New Mexico (Albuquerque) - Pheochromocytoma, malignant

New Mexico (University of New Mexico) - Extra-adrenal pheochromocytoma

New York (Albany Medical Center) - Paraganglioma

New York (Long Island Jewish Hospital) - Pheochromocytoma

New York (SUNY Stony Brook University Hospital) - Paraganglioma

New York (SUNY Downstate Medical Center) - Paraganglioma

New York (Westchester Medical Center) - Paraganglioma

North Carolina (Wake Forest University) - Malignant paraganglioma of retroperitoneum

Ohio (University of Toledo College of Medicine) - Paraganglioma (2)

Pennsylvania (Drexel University College of Medicine) - Paraganglioma

Pennsylvania (Lehigh Valley Hospital) - Paraganglioma

Pennsylvania (Magee Women's Hospital) - Paraganglioma

Puerto Rico (University of Puerto Rico) - Paraganglioma

South Dakota (LCM Pathologists), PC - Clear cell carcinoma

Texas, Crystal Beach - Pheochromocytoma
Texas, Houston - Pheochromocytoma
Texas, Lubbock - Pheochromocytoma
Texas (Scott & White Memorial Hospital) - Paranglioma
Texas, Shavanno Park - Paranglioma
Washington, Seattle VAMC) - Extra-adrenal pheochromocytoma/paranglioma
Wisconsin, Madison - Retroperitoneal paranglioma
Australia (Royal Hobart Hospital) - Pheochromocytoma (extra-adrenal)
Brazil (Federal University of Sao Paulo) - Pheochromocytoma
Canada (Pasqua Hospital) - Paranglioma
Canada (University of Sherbrooke) - Paranglioma
Ireland (Beaumont Hospital) - Paranglioma
Ireland (Kerry General Hospital) - Paranglioma (pheochromocytoma)
Japan (Asahi General Hospital) - Paranglioma
Japan (Kyoto University Hospital) - Paranglioma, retroperitoneum
Japan (Shizuoka Tokushukei Hospital) - Paranglioma

Case 6- Diagnosis:

Paranglioma, retroperitoneum
 T-Y4600, M-86931

Directors Note: The surgery report indicates that the adrenal gland was not involved. (drc)

Case 6 - References:

Palau MA, Merino MJ and Quezado M. Corticotropin-Producing Pulmonary Gangliocytic Paranglioma Associated with Cushing's Syndrome. *Hum Pathol* 2006; 37(5):623-626.
 Dahia PL. Evolving Concepts in Pheochromocytoma and Paranglioma. *Curr Opin Oncol* 2006; 18(1):1-8.
 Varma K, Jain and Mandal S. Cytomorphologic Spectrum in Paranglioma. *Acta Cytol* 2008; 52(5):549-556.
 Tambo M, Fumimoto K, Miyake M, et al. Clinicopathological Review of 46 Primary Retroperitoneal Tumors. *Int J Urol* 2007; 14(9):785-788.

Case No. 7, Accession No. 30732

January 2009

Fontana (Kaiser Foundation Hospital) - Castleman's disease
Glendale - Castleman's disease
Long Beach (Long Beach VA Hospital) - Castleman's disease (2)
Oakland - Hodgkin's disease
Oakland (Alameda County Medical Center) - Castleman's disease
Orange (St. Joseph Hospital) - Castleman's disease
Orinda (Kaiser Permanente) - Castleman's (hyaline vascular variant)
Oxnard (St. John's Regional Medical Center) - Castleman's disease
Pleasant Hill - Castleman's disease
San Diego (Naval Medical Center) - Castleman's disease (hyaline-vascular)
San Diego (Scripps Clinic) - Castleman's disease (hyaline vascular type)
Woodland Hills (Kaiser Permanente) - Castleman's disease
Alabama (Cunningham Pathology LLC) - Lymphoepithelioma
Chicago, Illinois - Castleman disease, hyaline-vascular variant (2)
Colorado, Fort Collins - Castleman's tumor
Florida (Naples Pathology Associates) - Castleman's disease
Georgia, Decatur - Castleman's disease
Illinois, Burr Ridge - MALToma
Illinois (Heartland Regional Medical Center) - Angiofollicular lymph node hyperplasia (castleman's lymphadenopathy)
Illinois (Loyola University of Medicine) - Castleman's disease, hyaline-vascular type, neck lymph node
Kansas (Cytocheck Laboratory) - Castleman's disease (1); Sjogren's syndrome (1)

Louisiana (Delta Pathology Midlouisiana) - Castleman's disease
Louisiana (LSUHSC) - Castleman's disease
Massachusetts (Tufts-New England Medical Center) - Castleman's disease
Michigan (Oakwood Hospital) - Angiofollicular hyperplasia hyaline vascular form
Minnesota (Fairview Ridges Hospital) - Castleman's disease, hyaline vascular type
Minnesota (University of Minnesota Oral and Maxillofacial Pathology) - Castleman's disease
Missouri (Missouri Delta Medical Center) - Benign reactive lymph node (Castleman's)
Nebraska (Creighton University Medical Center) - Castleman's disease
New Mexico (Albuquerque) - Castleman's disease
New Mexico (University of New Mexico) - Castleman's disease, hyaline vascular variant
New York (Albany Medical Center) - MALT lymphoma
New York (Long Island Jewish Hospital) - Castleman's disease
New York (SUNY Stony Brook University Hospital) - Castleman's disease
New York (SUNY Downstate Medical Center) - Castleman's disease, hyaline vascular type
New York (Westchester Medical Center) - Castleman's disease
North Carolina (Wake Forest University) - Lymphoepithelial carcinoma
Ohio (University of Toledo College of Medicine) - Castleman's lymphadenopathy, hyaline-vascular type (2)
Pennsylvania (Drexel University College of Medicine) - Castleman's disease
Pennsylvania (Lehigh Valley Hospital) - Castleman's disease
Pennsylvania (Magee Women's Hospital) - Hyaline vascular Castleman's disease
Puerto Rico (University of Puerto Rico) - Castleman's disease
Texas, Crystal Beach - Castleman's disease
Texas, Houston - Lymphoepithelial lesion
Texas, Lubbock - Castleman's disease
Texas (Scott & White Memorial Hospital) - Castleman's disease
Texas, Shavano Park - Castleman's disease
Washington, Seattle VAMC - Angiofollicular hyperplasia, hyaline vascular type
Wisconsin, Madison - Mikulicz's disease (Sjogrens)
Australia (Royal Hobart Hospital) - Castleman's disease
Brazil (Federal University of Sao Paulo) - Castleman's disease (hyaline-vascular)
Canada (Pasqua Hospital) - Castleman's disease
Canada (University of Sherbrooke) - Castleman's disease
Ireland (Beaumont Hospital) - Castleman's disease
Ireland (Kerry General Hospital) - Hyaline vascular Castleman's disease
Japan (Asahi General Hospital) - Castleman's disease, hyaline-vascular variant
Japan (Kyoto University Hospital) - Castleman's disease, lymph node
Japan (Shizuoka Tokushukai Hospital) - Castleman's disease

Case 7 - Diagnosis:

Castleman's disease, parotid and lymph nodes
 T-55100/T-08140/M-40000/M-72260

Case 7 - References:

Erdogan F, Altas S, Altas E, et al. A Rare Location of Castleman's Disease. Parotid Region. *NZ Med J* 2008; 121(1278):86-90.
 Park JH, Lee SW and Koh YW. Castleman Disease of the Parotid Gland in Childhood. An Unusual Entity. *Auris Nasus Larynx* 2008; 35(3):451-454.
 Kilty SJ, Yammine NV, Corsten MJ, et al. Castleman's Disease of the Parotid. *J Otolaryngol* 2004; 33(6):396-400.
 Klusmann JP, Muller A, Wagner M, et al. Human Herpesvirus Type 8 in Salivary Gland Tumors. *J Clin Virol* 2000; 16(3):239-246.
 Panayiotides J, Tsilalis T, Bollas N, et al. Parotid Castleman's Disease. *Cytopathol* 1998; 9(1):50-54.

Case No. 8, Accession No. 30738

January 2009

Fontana (Kaiser Foundation Hospital) - Intramuscular angioliopoma

Glendale - Intramuscular hemangioma
Long Beach (Long Beach VA Hospital) - Intramuscular angioliipoma/hamartoma (2)
Oakland - Fibromatosis vs. hemangioma
Oakland (Alameda County Medical Center) - Intramuscular angioma
Orange (St. Joseph Hospital) - Intramuscular hemangioma
Orinda (Kaiser Permanente) - Intramuscular hemangioma
Oxnard (St. John's Regional Medical Center) - Intramuscular hemangioma
Pleasant Hill - Angioliipoma
San Diego (Naval Medical Center) - Intramuscular hemangioma
San Diego (Scripps Clinic) - Intramuscular hemangioma
Woodland Hills (Kaiser Permanente) - Intramuscular hemangioma
Alabama (Cunningham Pathology LLC) - Intramuscular hemangioma
Chicago, Illinois - Intramuscular hemangioma (1); Neurofibroma (1)
Colorado, Fort Collins - Intramuscular hemangioma
Florida (Naples Pathology Associates) - Angioliipoma of muscle
Georgia, Decatur - Intramuscular hemangioma
Illinois, Burr Ridge - Intramuscular hemangioma
Illinois (Heartland Regional Medical Center) - Intramuscular hemangioma
Illinois (Loyola University of Medicine) - Intramuscular hemangioma, back
Kansas (Cytocheck Laboratory) - Intramuscular hemangioma (2)
Louisiana (Delta Pathology Midlouisiana) - Angioliipoma
Louisiana (LSUHSC) - Intramuscular angioliipoma
Massachusetts (Tufts-New England Medical Center) - Intramuscular hemangioma
Michigan (Oakwood Hospital) - Intramuscular hemangioma
Minnesota (Fairview Ridges Hospital) - Intramuscular hemangioma
Minnesota (University of Minnesota Oral and Maxillofacial Pathology) - Intramuscular hemangioma
Missouri (Missouri Delta Medical Center) - Spindle cell lipoma
Nebraska (Creighton University Medical Center) - Intramuscular hemangioma
New Mexico (Albuquerque) - Intramuscular hemangioma
New Mexico (University of New Mexico) - Intramuscular hemangioma
New York (Albany Medical Center) - Intramuscular hemangioma
New York (Long Island Jewish Hospital) - Intramuscular hemangioma
New York (SUNY Stony Brook University Hospital) - Intramuscular hemangioma
New York (SUNY Downstate Medical Center) - Intramuscular hemangioma
New York (Westchester Medical Center) - Angioliipoma
North Carolina (Wake Forest University) - Intramuscular hemangioma
Ohio (University of Toledo College of Medicine) - Intramuscular hemangioma (2)
Pennsylvania (Drexel University College of Medicine) - Intramuscular hemangioma
Pennsylvania (Lehigh Valley Hospital) - Intramuscular angioma
Pennsylvania (Magee Women's Hospital) - Intramuscular hemangioma
Puerto Rico (University of Puerto Rico) - Intramuscular hemangioma
Texas, Crystal Beach - Capillary hemangioma, intramuscular
Texas, Houston - Intramuscular hemangioma
Texas, Lubbock - Hemangioendothelioma
Texas (Scott & White Memorial Hospital) - Arteriovenous hemangioma
Texas, Shavanno Park - Angiomatosis
Washington, Seattle VAMC) - Intramuscular hemangioma
Wisconsin, Madison - Intramuscular hemangioma
Australia (Royal Hobart Hospital) - Intramuscular hemangioma
Brazil (Federal University of Sao Paulo) - Intramuscular hemangioma
Canada (Pasqua Hospital) - Intramuscular hemangioma
Canada (University of Sherbrooke) - Intramuscular hemangioma
Ireland (Beaumont Hospital) - Intramuscular hemangioma
Ireland (Kerry General Hospital) - Intramuscular hemangioma
Japan (Asahi General Hospital) - Intramuscular hemangioma
Japan (Kyoto University Hospital) - Intramuscular hemangioma, back
Japan (Shizuoka Tokushukei Hospital) - Intramuscular angioma

Case 8 - Diagnosis:

Intramuscular hemangioma, back
T-Y1100, M-91320

Case 8 - References:

Bella GP, Manivel JC, et al. Intramuscular Hemangioma. Recurrence Risk Related to Surgical Margins. *Clin Orthop Relat Res* 2007; 459:186-191.
Griffo S, Stassano P, De Luca G, et al. Intramuscular Hemangioma of the Chest Wall. An Unusual Tumor. *J Thorac Cardiovasc Surg* 2007; 134(5):1368-1369.
Mandel L and Surattanont F. Clinical and Imaging Diagnoses of Intramuscular Hemangiomas. The Wattle Sign and Case Reports. *J Oral Maxillofac Surg* 2004; 62(6):754-758.
Saad DF, Shehata BM, Patrick E, et al. Intramuscular Hemangioma of the Abdominal Wall. *J Pediatr Surg* 2006; 41(3):601-602.

Case No. 9, Accession No. 30294

January 2009

Fontana (Kaiser Foundation Hospital) - IVBAT

Glendale - Sclerosing hemangioma

Long Beach (Long Beach VA Hospital) - Sclerosing hemangioma (2)

Oakland - Carcinoid vs. glomus tumor

Oakland (Alameda County Medical Center) - Sclerosing hemangioma

Orange (St. Joseph Hospital) - Sclerosing hemangioma

Orinda (Kaiser Permanente) - Sclerosing hemangioma

Oxnard (St. John's Regional Medical Center) - Hemangioendothelioma

Pleasant Hill - Sclerosing hemangioma

San Diego (Naval Medical Center) - Sclerosing hemangioma (pneumocytoma)

San Diego (Scripps Clinic) - Sclerosing hemangioma

Woodland Hills (Kaiser Permanente) - Hemangioma

Alabama (Cunningham Pathology LLC) - Angiomatous pulmonary histiocytosis

Chicago, Illinois - Arteriovenous malformation (2)

Colorado, Fort Collins - Sclerosing hemangioma

Florida (Naples Pathology Associates) - Sclerosing hemangioma

Georgia, Decatur - Thymoma

Illinois, Burr Ridge - Sclerosing hemangioma

Illinois (Heartland Regional Medical Center) - Sclerosing pneumocytoma (sclerosing hemangioma)

Illinois (Loyola University of Medicine) - Hemangioblastoma, lung

Kansas (Cytocheck Laboratory) - Lymphangiomyomatosis (1); Sclerosing hemangioma (1)

Louisiana (Delta Pathology Midlouisiana) - Glomus tumor

Louisiana (LSUHSC) - Hemangiopericytoma

Massachusetts (Tufts-New England Medical Center) - Hemangioendothelioma

Michigan (Oakwood Hospital) - Sclerosing hemangioma

Minnesota (Fairview Ridges Hospital) - Pneumocytoma ("so-called sclerosing hemangioma")

Minnesota (University of Minnesota Oral and Maxillofacial Pathology) - Pecoma

Missouri (Missouri Delta Medical Center) - Lymphangiomyomatosis

Nebraska (Creighton University Medical Center) - Gliomangioma

New Mexico (Albuquerque) - Sclerosing hemangioma

New Mexico (University of New Mexico) - Sclerosing hemangioma

New York (Albany Medical Center) - Pulmonary capillary hemangiomatosis

New York (Long Island Jewish Hospital) - Sclerosing hemangioma

New York (SUNY Stony Brook University Hospital) - Glomus tumor

New York (SUNY Downstate Medical Center) - Sclerosing hemangioma

New York (Westchester Medical Center) - Sclerosing hemangioendothelioma

North Carolina (Wake Forest University) - Inflammatory myofibroblastic tumor

Ohio (University of Toledo College of Medicine) - Sclerosing hemangioma, hemorrhagic pattern (2)

Pennsylvania (Drexel University College of Medicine) - Kaposi's sarcoma

Pennsylvania (Lehigh Valley Hospital) - Pneumocytoma (sclerosing hemangioma)
Pennsylvania (Magee Women's Hospital) - Sclerosing hemangioma
Puerto Rico (University of Puerto Rico) - Sclerosing hemangioma
Texas, Crystal Beach - Solitary fibrous tumor
Texas, Houston - Capillary hemangiomatosis
Texas, Lubbock - Hemangiopericytoma
Texas (Scott & White Memorial Hospital) - Sclerosing hemangioma
Texas, Shavanno Park - Sclerosing hemangioma
Washington, Seattle VAMC - Cavernous hemangioma/hemangiopericytoma
Wisconsin, Madison - Sclerosing hemangioma
Australia (Royal Hobart Hospital) - Sclerosing pneumocytoma (sclerosing hemangioma)
Brazil (Federal University of Sao Paulo) - Sclerosing hemangioma (pneumocytoma)
Canada (Pasqua Hospital) - Sclerosing hemangioma
Canada (University of Sherbrooke) - Epithelioid hemangioma
Ireland (Beaumont Hospital) - Sclerosing hemangioma
Ireland (Kerry General Hospital) - Sclerosing pneumocytoma, angiomatoid pattern
Japan (Asahi General Hospital) - Alveolar adenoma
Japan (Kyoto University Hospital) - So-called sclerosing hemangioma, left lung
Japan (Shizuoka Tokushukei Hospital) - Sclerosing hemangioma

Case 9 - Diagnosis:

Sclerosing hemangioma, lung
 T-28000, M-88320

Case 9 - References:

Wu CT, Chang YL and Lee YC. Expression of the Estrogen Receptor Beta in 37 Surgically Treated Pulmonary Sclerosing Hemangiomas in Comparison with Non-Small Cell Lung Carcinomas. *Hum Pathol* 2005; 36(10):1108-1112.
 Hosaka N, Sasaki T, et al. Pulmonary Sclerosing Hemangioma Associated with Familial Adenomatous Polyposis. *Hum Pathol* 2004; 35(6):764-768.
 Ng SH, et al. Histopathological and CT Features of Pulmonary Sclerosing Haemangiomas. *Clin Radiol* 2003; 58(8):630-635.
 Khoury JD, Shephard MN and Moran CA. Cystic Sclerosing Haemangioma of the Lung. *Histopathology* 2003; 43(3):239-243.
 Wang E, Lin D, Wang Y, et al. Immunohistochemical and Ultrastructural Markers Suggest Different Origins for Cuboidal and Polygonal Cells in Pulmonary Sclerosing Hemangioma. *Hum Pathol* 2004; 35(4):503-508.

Case No. 10, Accession No. 30727

January 2009

Fontana (Kaiser Foundation Hospital) - Leiomyosarcoma
Glendale - Leiomyoma
Long Beach (Long Beach VA Hospital) - Intravascular leiomyosarcoma (1); Leiomyosarcoma (1)
Oakland - Leiomyosarcoma
Oakland (Alameda County Medical Center) - Leiomyosarcoma
Orange (St. Joseph Hospital) - Leiomyosarcoma
Orinda (Kaiser Permanente) - Leiomyoma
Oxnard (St. John's Regional Medical Center) - Leiomyoma
Pleasant Hill - Leiomyosarcoma
San Diego (Naval Medical Center) - Leiomyosarcoma
San Diego (Scripps Clinic) - Inferior vena cava leiomyosarcoma
Woodland Hills (Kaiser Permanente) - Leiomyosarcoma
Alabama (Cunningham Pathology LLC) - Leiomyosarcoma
Chicago, Illinois - Leiomyosarcoma (2)
Colorado, Fort Collins - Leiomyosarcoma
Florida (Naples Pathology Associates) - Leiomyosarcoma

Georgia, Decatur - Leiomyosarcoma
Illinois, Burr Ridge - Leiomyosarcoma
Illinois (Heartland Regional Medical Center) - Leiomyosarcoma
Illinois (Loyola University of Medicine) - Leiomyosarcoma, inferior vena cava
Kansas (Cytocheck Laboratory) - Leiomyosarcoma (2)
Louisiana (Delta Pathology Midlouisiana) - Low grade leiomyosarcoma
Louisiana (LSUHSC) - Leiomyosarcoma
Massachusetts (Tufts-New England Medical Center) - Intravascular leiomyosarcoma
Michigan (Oakwood Hospital) - Leiomyosarcoma
Minnesota (Fairview Ridges Hospital) - Leiomyosarcoma, moderately differentiated (inferior vena cava)
Minnesota (University of Minnesota Oral and Maxillofacial Pathology) - Leiomyosarcoma
Missouri (Missouri Delta Medical Center) - Low grade leiomyosarcoma
Nebraska (Creighton University Medical Center) - Leiomyoma
New Mexico (Albuquerque) - Leiomyosarcoma
New Mexico (University of New Mexico) - Atypical leiomyoma
New York (Albany Medical Center) - Leiomyosarcoma
New York (Long Island Jewish Hospital) - Intravascular leiomyosarcoma
New York (SUNY Stony Brook University Hospital) - Leiomyosarcoma
New York (SUNY Downstate Medical Center) - Leiomyosarcoma
New York (Westchester Medical Center) - Leiomyosarcoma
North Carolina (Wake Forest University) - Leiomyosarcoma
Ohio (University of Toledo College of Medicine) - Leiomyosarcoma (2)
Pennsylvania (Drexel University College of Medicine) - Leiomyoma
Pennsylvania (Lehigh Valley Hospital) - Leiomyosarcoma
Pennsylvania (Magee Women's Hospital) - Leiomyosarcoma
Puerto Rico (University of Puerto Rico) - Leiomyosarcoma
Texas, Crystal Beach - Leiomyoma
Texas, Houston - Low grade fibrosarcoma
Texas, Lubbock - Leiomyosarcoma
Texas (Scott & White Memorial Hospital) - Leiomyosarcoma
Texas, Shavanno Park - Leiomyosarcoma
Washington, Seattle VAMC) - Leiomyosarcoma
Wisconsin, Madison - Leiomyoma
Australia (Royal Hobart Hospital) - Leiomyosarcoma inferior vena cava
Brazil (Federal University of Sao Paulo) - Leiomyosarcoma
Canada (Pasqua Hospital) - Leiomyosarcoma
Canada (University of Sherbrooke) - Vascular leiomyosarcoma
Ireland (Beaumont Hospital) - Leiomyosarcoma
Ireland (Kerry General Hospital) - Leiomyosarcoma
Japan (Asahi General Hospital) - Leiomyosarcoma
Japan (Kyoto University Hospital) - Leiomyosarcoma, retroperitoneum
Japan (Shizuoka Tokushukei Hospital) - Leiomyosarcoma

Case 10 - Diagnosis:

Vascular leiomyosarcoma, retroperitoneum (soft tissue section, AFIP)
 T-Y4600, M-88903

Case 10 - References:

- Nikaido T, Endo Y, et al. Dumbbell-Shaped Leiomyosarcoma of the Inferior Vena Cava with Foci of Rhabdoid Changes and Osteoclast-Type Giant Cells. *Pathol Int* 2004; 54(4):256-260.
 Ameer S, Butany J, et al. Leiomyosarcoma of the Inferior Vena Cava. *Cardiovasc Pathol* 2006; 15(3):171-173.
 Al-Rikabi A, Hussain AA, et al. Primary Leiomyosarcoma of the Inferior Vena Cava. Report of a Case Diagnosed by Fine Needle Aspiration Cytology and Confirmed by Histopathologic Examination. *Acta Cytol* 2007; 51(3):477-479.
 Dew J, Hansen K, Hammon J, et al. Leiomyosarcoma of the Inferior Vena Cava. Surgical Management and Clinical Results. *Am Surg* 2005; 71(6):497-501.
 Celdran A, Friero O, del Rio A, et al. Leiomyosarcoma of the Portal Venous System. A Case Report and Review of Literature. *Surg* 2004; 135(4):455-456.