



CALIFORNIA
TUMOR TISSUE REGISTRY

GENERAL PATHOLOGY

Minutes – Subscription A

March, 2008



SUGGESTED READING (General Topics from Recent Literature):

- Sarcoma. Skubitz KM, D'Adamo DR. *Mayo Clin Proc* 2007; 82:1409-1432.
- Clinical Significance of Cultures Collected From Fine-Needle Aspiration Biopsy. Granville LA, Laucirica R, and Verstovsek G. *Diagn Cytopathol* 2008; 36:85-88.
- Multimarker Phenotype Predicts Adverse Survival in Patients with Lymph Node-Negative Colorectal Cancer. Zlob I, Minoo P, et al. *Cancer* 2007; 112:495-502.
- Oral Non-Hodgkin's Lymphoma. Review of the Literature and World Health Organization Classification with Reference to 40 Cases. Kemp S, Gallagher G, et al. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod* 2008; 105:194-201.
- Application of Flow Cytometry for Biomarker-Based Cervical Cancer Cells Detection. Ling J, Wiederkehr U, et al. *Diagn Cytopathol* 2008; 36:76-84.

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FILE DIAGNOSES

CTTR Subscription A

March 2008

Case 1:

Pleomorphic adenoma (benign mixed tumor), sub mandibular
T-55320, M-89400

Case 2:

Glomangiopericytoma (sinonasal-type hemangiopericytoma), sinonasal tract
T-2X120, M-91501

Case 3:

Renal cell carcinoma (conventional/clear type), kidney
T-71000, M-83123

Case 4:

Nephroblastoma (Wilm's tumor), kidney
T-72010, M-89603

Case 5:

Gastrointestinal stromal tumor, stomach
T-63000, M-88903

Case 6:

High grade sarcoma of retroperitoneum
T-Y4600, M-90403

Case 7:

Well differentiated liposarcoma, retroperitoneum
T-Y4600, M-88513

Case 8:

Angiosarcoma (epithelioid subtype), retroperitoneum
T-71000, M-91203

Case 9:

High grade spindle cell malignancy, favor monophasic synovial sarcoma over spindled carcinoma,
maxilla
T-10170, M-90413

Case 10:

Granulosa cell tumor, ovary
T-87000, M-86203

Alameda (Alameda County Medical Center) - Pleomorphic adenoma
Long Beach (Long Beach VA Hospital) - Pleomorphic adenoma (benign mixed tumor) (6)
Oakland - Benign mixed tumor vs. basaloid adenoma
Oxnard (St. John's Regional Medical Center) - Pleomorphic adenoma (2); Carcinoma ex-pleomorphic adenoma (1)
San Diego - Pleomorphic adenoma, submandibular gland
San Diego (Naval Medical Center) - Benign mixed tumor (pleomorphic adenoma)
Santa Rosa Memorial Hospital - Pleomorphic adenoma (2); mixed type (1)
Woodland Hills - Pleomorphic adenoma
Alabama (Baptist Medical Center) - Pleomorphic adenoma
Alabama (St. Vincent's Hospital) - Pleomorphic adenoma
Alabama (UAB) - Pleomorphic adenoma
Colorado - Pleomorphic adenoma
Florida (The Pathology Group) - Pleomorphic adenoma
Georgia (Medical College of Georgia) - Pleomorphic adenoma
Indiana (St. Joseph Hospital) - Pleomorphic adenoma (mixed tumor) (1); Pleomorphic adenoma (1)
Iowa (Winneshiek County Medical Hospital) - Mixed tumor
Maryland (Washington DC Group) - Benign mixed tumor
Massachusetts (Tufts-New England Medical Center) - Pleomorphic adenoma
Missouri (Missouri Delta Medical Center) - Pleomorphic adenoma focal area suggest carcinoma ex-pleomorphic
Nevada (Sunrise Hospital) - Pleomorphic adenoma (benign mixed tumor)
New York (Long Island Jewish Medical Center) - Benign mixed tumor
New York (St. Luke's-Roosevelt Hospital) - Cystic mucoepidermoid carcinoma
New York (Stony Brook University Medical Center) - Pleomorphic adenoma
Ohio (St. Elizabeth Health Center) - Pleomorphic adenoma
Pennsylvania (Magee Women's Hospital) - Cellular adenoma
Australia (Royal Hobart Hospital) - Pleomorphic adenoma submandibular gland
Hong Kong (Kwong Wah Hospital) - Pleomorphic adenoma
Saudi Arabia (King Fahad National Guard Hospital) - Pleomorphic adenoma
Saudi Arabia (King Faisal Specialty Hospital) - Submandibular glands, pleomorphic adenoma
United Kingdom (John Radcliffe Hospital) - Submandibular gland, pleomorphic adenoma

Case 1 - Diagnosis:

Pleomorphic adenoma (benign mixed tumor), submandibular
T-55320, M-89400

Case 1 - References:

Das DK and Anim JT. Pleomorphic Adenoma of Salivary Gland. To What Extent Does Fine Needle Aspiration Cytology Reflect Histopathological Features? *Cytopathol* 2005; 16(2):65-70.
Rapidis AD, Stavrianos S, Lagogiannis G, et al. Tumors of the Submandibular Gland. Clinicopathologic Analysis of 23 Patients. *J Oral Maxillofac Surg* 2004; 62(10):1203-1208.
Hong KH and Yang YS. Intraoral Approach for the Treatment of Submandibular Salivary Gland Mixed Tumors. *Oral Oncol* 2007.
Munir N and Bradley PJ. Pleomorphic Adenoma of the Submandibular Gland. An Evolving Change in Practice Following Review of a Personal Case Series. *Eur Arch Otorhinolaryngol* 2007; 264(12):1447-1452.
Munir N and Bradley PJ. Diagnosis and Management of Neoplastic Lesions of the Submandibular Triangle. *Oral Oncol* 2008; 44(3):251-260.

Alameda (Alameda County Medical Center) - Hemangiopericytoma, sinonasal type

Long Beach (Long Beach VA Hospital) - Glomangiopericytoma (hemangiopericytoma-like tumor) (6)
Oakland - Hemangiopericytoma
Oxnard (St. John's Regional Medical Center) - Hemangioendothelioma (3)
San Diego - Solitary fibrous tumor, cellular, sinonasal tract
San Diego (Naval Medical Center) - Sinonasal hemangiopericytoma (glomangiopericytoma)
Santa Rosa Memorial Hospital) - Glomangiopericytoma (sinonasal-type hemangiopericytoma) (1); Spindle cell neoplasm, rule out melanoma, Schneiderian papilloma (1); Schneiderian papilloma (1)
Woodland Hills - Glomangiopericytoma
Alabama (Baptist Medical Center) - Hemangiopericytoma
Alabama (St. Vincent's Hospital) - Nasal hemangiopericytoma
Alabama (UAB) - Glomangiopericytoma (sinonasal-type hemangiopericytoma)
Colorado - Hemangiopericytoma
Florida (The Pathology Group) - Hemangiopericytoma
Georgia (Medical College of Georgia) - Inverted papilloma, oncocytic type
Indiana (St. Joseph Hospital) - Sinonasal hemangiopericytoma (2)
Iowa (Winnebago County Medical Hospital) - Inverted papilloma
Maryland (Washington DC Group) - Kaposi's sarcoma
Massachusetts (Tufts-New England Medical Center) - Hemangiopericytoma
Missouri (Missouri Delta Medical Center) - Hemangiopericytoma (HPC)
Nevada (Sunrise Hospital) - Sinonasal hemangiopericytoma
New York (Long Island Jewish Medical Center) - Hemangiopericytoma
New York (St. Luke's-Roosevelt Hospital) - Glomangiopericytoma
New York (Stony Brook University Medical Center) - Hemangiopericytoma, sinonasal type
Ohio (St. Elizabeth Health Center) - Hemangiopericytoma-like tumor of nasal passage/hemangiopericytoma
Pennsylvania (Magee Women's Hospital) - Hemangiopericytoma, sinonasal type (glomangiopericytoma)
Australia (Royal Hobart Hospital) - Haemangiopericytoma-like tumor of nasal passages
Hong Kong (Kwong Wah Hospital) - Hemangiopericytoma-like tumour
Saudi Arabia (King Fahad National Guard Hospital) - Hemangiopericytoma
Saudi Arabia (King Faisal Specialty Hospital) - Sinonasal tract, sinonasal hemangiopericytoma
United Kingdom (John Radcliffe Hospital) - Sinonasal glomangiopericytoma

Case 2 - Diagnosis:

Glomangiopericytoma (sinonasal-type hemangiopericytoma), sinonasal tract
 T-2X120, M-91501

Case 2 - References:

Thompson LD. Sinonasal Tract Glomangiopericytoma (Hemangiopericytoma). *Ear Nose Throat J* 2004;83(12):807.
 Thompson LD, Miettinen M, Wenig BM, et al. Sinonasal-Type Hemangiopericytoma. A Clinicopathologic and Immunophenotypic Analysis of 104 Cases Showing Perivascular Myxoid Differentiation. *Am J Surg Pathol* 2003; 27(6):737-749.
 Li XQ, Hisaoka M, Morio T, et al. Intranasal Pericytic Tumors (Glomus Tumor and Sinonasal Hemangiopericytoma-Like Tumor). Report of Two Cases with Review of the Literature. *Pathol Int* 2003; 53(5):303-308.
 Kuo FY, Lin HC, Eng HL, et al. Sinonasal Hemangiopericytoma-Like Tumor with True Pericytic Myxoid Differentiation. A Clinicopathologic and Immunohistochemical Study of Five Cases. *Head Neck* 2005; 27(2):124-129.
 Wilson T, Hellquist HB, Ray S, et al. Intranasal Myopericytoma. A Tumour with Perivascular Myxoid Differentiation. The Changing Nomenclature for Haemangiopericytoma. *J Laryngol Otol* 2007; 121(8):786-789.
 Gengler C. and Guillou L. Solitary Fibrous Tumour and Haemangiopericytoma. Evolution of a Concept. *Histopathol* 2006; 48(1):63-74.

Case No. 3, Accession No. 30510

March 2008

Alameda (Alameda County Medical Center) - Renal cell carcinoma
Long Beach (Long Beach VA Hospital) - Renal carcinoma, clear cell type (6)

Oakland - Renal oncocytoma vs. clear cell carcinoma

Oxnard (St. John's Regional Medical Center) - Renal cell carcinoma, clear cell (1); Renal cell carcinoma, Grade I (1); Renal cell carcinoma (1)

San Diego - Renal cell carcinoma, clear cell type

San Diego (Naval Medical Center) - Clear cell renal cell carcinoma

Santa Rosa Memorial Hospital - Renal cell carcinoma, clear cell type (3)

Woodland Hills - Renal cell carcinoma, clear cell type, low grade

Alabama (Baptist Medical Center) - Renal cell carcinoma, clear cell type

Alabama (St. Vincent's Hospital) - Renal cell carcinoma, clear cell type

Alabama (UAB) - Renal cell carcinoma, clear cell type, Fuhrman, grade 1

Colorado - Clear cell (conventional) renal cell carcinoma

Florida (The Pathology Group) - Renal cell carcinoma, clear cell type

Georgia (Medical College of Georgia) - Conventional clear cell renal cell carcinoma

Indiana (St. Joseph Hospital) - Renal cell carcinoma, clear cell variant (2)

Iowa (Winnebago County Medical Hospital) - Clear cell carcinoma

Maryland (Washington DC Group) - Renal cell carcinoma

Massachusetts (Tufts-New England Medical Center) - Renal cell carcinoma, conventional type

Missouri (Missouri Delta Medical Center) - Xanthogranulomatous pyelonephritis

Nevada (Sunrise Hospital) - Renal cell carcinoma, clear cell type

New York (Long Island Jewish Medical Center) - Renal cell carcinoma

New York (St. Luke's-Roosevelt Hospital) - Renal cell carcinoma

New York (Stony Brook University Medical Center) - Renal cell carcinoma, clear cell type, grade 1

Ohio (St. Elizabeth Health Center) - Renal cell carcinoma

Pennsylvania (Magee Women's Hospital) - Renal cell carcinoma (clear cell) type

Australia (Royal Hobart Hospital) - Clear cell renal cell carcinoma

Hong Kong (Kwong Wah Hospital) - Clear cell carcinoma

Saudi Arabia (King Fahad National Guard Hospital) - Renal cell carcinoma

Saudi Arabia (King Faisal Specialty Hospital) - Renal cell carcinoma, Fuhrman, grade 2, left kidney

United Kingdom (John Radcliffe Hospital) - Conventional (clear cell) renal cell carcinoma, kidney

Case 3 - Diagnosis:

Renal cell carcinoma (conventional/clear cell type), kidney
T-71000, M-83123

Case 3 - References:

Cheville JC, Lohse CM, Zincke H, et al. Comparisons of Outcome and Prognostic Features Among Histologic Subtypes of Renal Cell Carcinoma. *Am J Surg Pathol* 2003; 27(5):612-624.

Soller MJ, Kullendorff CM, Bekassy AN, et al. Cytogenetic Findings in Pediatric Renal Cell Carcinoma. *Cancer Genet Cytogenet* 2007; 173(1):75-80.

Svec A and Velenska Z. Renal Epithelioid Angiomyolipoma. A close Mimic of Renal Cell Carcinoma. Report of a Case and Review of the Literature. *Pathol Res Pract* 2005; 200:851-856.

Upton MP, Parker RA, Youmans A, et al. Histologic Predictors of Renal Cell Carcinoma Response to Interleukin-2 Based Therapy. *J Immunother* 1997 2005; 28(5):488-495.

Grignon DJ and Che M. Clear Cell Renal Cell Carcinoma. *Clin Lab Med* 2005; 25(2):305-316.

Case No. 4, Accession No. 30564

March 2008

Alameda (Alameda County Medical Center) - Nephroblastoma (Wilm's tumor)

Long Beach (Long Beach VA Hospital) - Wilm's tumor (6)

Oakland - Wilm's tumor

Oxnard (St. John's Regional Medical Center) - Wilm's tumor (3)

San Diego - Nephroblastoma
San Diego (Naval Medical Center) - Wilm's tumor
Santa Rosa Memorial Hospital - Nephroblastoma (Wilm's tumor) (3)
Woodland Hills - Nephroblastoma
Alabama (Baptist Medical Center) - Wilm's tumor
Alabama (St. Vincent's Hospital) - Wilm's tumor
Alabama (UAB) - Nephroblastoma (Wilm's tumor)
Colorado - Nephroblastoma
Florida (The Pathology Group) - Nephroblastoma
Georgia (Medical College of Georgia) - Neuroblastoma
Indiana (St. Joseph Hospital) - Nephroblastoma (2)
Iowa (Winnebago County Medical Hospital) - Wilm's tumor
Maryland (Washington DC Group) - Wilm's tumor
Massachusetts (Tufts-New England Medical Center) - Wilm's tumor
Missouri (Missouri Delta Medical Center) - Wilm's tumor
Nevada (Sunrise Hospital) - Wilm's tumor
New York (Long Island Jewish Medical Center) - Wilm's tumor
New York (St. Luke's-Roosevelt Hospital) - Wilm's tumor
New York (Stony Brook University Medical Center) - Wilm's tumor
Ohio (St. Elizabeth Health Center) - Wilm's tumor (blastemal predominant)
Pennsylvania (Magee Women's Hospital) - Blastema-rich Wilm's tumor
Australia (Royal Hobart Hospital) - Nephroblastoma
Hong Kong (Kwong Wah Hospital) - Neuroblastoma
Saudi Arabia (King Fahad National Guard Hospital) - Wilm's tumor
Saudi Arabia (King Faisal Specialty Hospital) - Wilm's tumor, kidney
United Kingdom (John Radcliffe Hospital) - Nephroblastoma

Case 4 - Diagnosis:

Nephroblastoma (Wilm's tumor), kidney
 T-72010, M-89603

Case 4 - References:

Khoury JD. Nephroblastic Neoplasms. *Clin Lab Med* 2005; 341-361.
 Ghanem MA van Steenbrugge GJ, Nijman RJ, et al. Prognostic Markers in Nephroblastoma (Wilms' Tumor). *Urology* 2005; 65(6):1047-1054.
 Mitry E, Cicolallo L, Coleman MP, et al. Incidence of and Survival from Wilm's Tumour in Adults in Europe. Data from the EURO CARE Study. *Eur J Cancer* 2006; 42(14):2363-2368.
 Blakely ML, Shamberger RC, Norkool P, et al. Outcome of Children with Cystic Partially Differentiated Nephroblastoma Treated With or Without Chemotherapy. *J Pediatr Surg* 2003; 38(6):897-900.
 Guertl B, Ratschek M, Harms D, et al. Clonality and Loss of Heterozygosity of WT Genes are Early Events in the Pathogenesis of Nephroblastomas. *Hum Pathol* 2003; 34(3):278-281.

Case No. 5, Accession No. 30540

March 2008

Alameda (Alameda County Medical Center) - Gastrointestinal stromal tumor (GIST)
Long Beach (Long Beach VA Hospital) - Gastrointestinal stromal tumor (6)
Oakland - Gastrointestinal stromal tumor
Oxnard (St. John's Regional Medical Center) - Gastrointestinal stromal tumor (3)
San Diego - Gastrointestinal stromal tumor, intermediate risk, stomach
San Diego (Naval Medical Center) - Epithelioid gastrointestinal stromal tumor
Santa Rosa Memorial Hospital - Gastrointestinal stromal tumor (GIST) (3)
Woodland Hills - Gastrointestinal stromal tumor
Alabama (Baptist Medical Center) - Gastrointestinal stromal tumor
Alabama (St. Vincent's Hospital) - Gastrointestinal stromal tumor (uncertain malignant potential)
Alabama (UAB) - Gastrointestinal stromal tumor of undetermined malignant potential
Colorado - Gastrointestinal stromal tumor

Florida (The Pathology Group) - Gastrointestinal stromal tumor
Georgia (Medical College of Georgia) - Gastrointestinal stromal tumor
Indiana (St. Joseph Hospital) - Gastrointestinal stromal tumor (2)
Iowa (Winnebago County Medical Hospital) - Gastrointestinal stromal tumor
Maryland (Washington DC Group) - Epithelioid gastrointestinal stromal tumor
Massachusetts (Tufts-New England Medical Center) - Gastrointestinal stromal tumor
Missouri (Missouri Delta Medical Center) - Gastrointestinal stromal tumor
Nevada (Sunrise Hospital) - Gastrointestinal stromal tumor
New York (Long Island Jewish Medical Center) - Gastrointestinal stromal tumor
New York (St. Luke's-Roosevelt Hospital) - Gastrointestinal stromal tumor
New York (Stony Brook University Medical Center) - Gastrointestinal stromal tumor
Ohio (St. Elizabeth Health Center) - Gastrointestinal stromal tumor
Pennsylvania (Magee Women's Hospital) - Gastrointestinal stromal tumor
Australia (Royal Hobart Hospital) - Gastrointestinal stromal tumor with risk of aggressive behavior
Hong Kong (Kwong Wah Hospital) - Gastrointestinal stromal tumor
Saudi Arabia (King Fahad National Guard Hospital) - Gastrointestinal stromal tumor
Saudi Arabia (King Faisal Specialty Hospital) - Gastrointestinal stromal tumor, stomach
United Kingdom (John Radcliffe Hospital) - Epithelioid gastrointestinal stromal tumor

Case 5 - Diagnosis:

Gastrointestinal stromal tumor, stomach

T-63000, M-88903

Case 5 - References:

Chatzipantelis P, Salla C, Karoumpalis I, et al. Endoscopic Ultrasound-Guided Fine Needle Aspiration Biopsy in the Diagnosis of Gastrointestinal Stromal Tumors of the Stomach. A Study of 17 Cases. *J Gastrointest Liver Dis* 2008; 17(1):15-20.
 Lippai N, Fule T, Nemeth T, Benedek G, et al. Keratin-Positive Gastrointestinal Stromal Tumor of the Stomach Mimicking Gastric Carcinoma. Diagnosis Confirmed by C-Kit Mutation Analysis. *Diagn Mol Pathol* 2008.
 Miselli F, Conca E, Casieri P, et al. A Sporadic Multiple GIST with Unusual Pathologic, Molecular, and Genetic Features. *Am J Surg Pathol* 2008; 32(2):340-341.
 Braconi C, Bracci R, Bearzi I, et al. KIT and PDGFRalpha Mutations in 104 Patients with Gastrointestinal Stromal Tumors (GISTs). A Population-Based Study. *Ann Oncol* 2008; 19(4):706-710.

Case No. 6, Accession No. 30573

March 2008

Alameda (Alameda County Medical Center) - Sarcoma, NOS
Long Beach (Long Beach VA Hospital) - Leiomyosarcoma (6)
Oakland - Liposarcoma (dedifferentiated) vs. leiomyosarcoma
Oxnard (St. John's Regional Medical Center) - Sarcoma (3)
San Diego - Malignant peripheral nerve sheath tumor, retroperitoneum
San Diego (Naval Medical Center) - High grade sarcoma
Santa Rosa Memorial Hospital - Sarcoma, probably leiomyosarcoma (1); High-grade sarcoma, probably fibrosarcoma (2)
Woodland Hills - Leiomyosarcoma
Alabama (Baptist Medical Center) - Desmoplastic small round cell tumor
Alabama (St. Vincent's Hospital) - High grade synovial sarcoma
Alabama (UAB) - Leiomyosarcoma, epithelioid variant, high grade
Colorado - Poorly differentiated malignancy, favor leiomyosarcoma
Florida (The Pathology Group) - Spindle cell malignant neoplasm, favor MPNST
Georgia (Medical College of Georgia) - MPNST
Indiana (St. Joseph Hospital) - Dedifferentiated liposarcoma (1); Malignant spindle cell tumor (do specials)
Iowa (Winnebago County Medical Hospital) - Fibrosarcoma
Maryland (Washington DC Group) - High grade sarcoma/leiomyosarcoma
Massachusetts (Tufts-New England Medical Center) - Desmoplastic small round cell tumor
Missouri (Missouri Delta Medical Center) - Malignant fibrous histiocytoma
Nevada (Sunrise Hospital) - Malignant gastrointestinal stromal tumor

New York (Long Island Jewish Medical Center) - Sarcoma, NOS, favor fibrosarcoma
New York (St. Luke's-Roosevelt Hospital) - High grade sarcoma, NOS
New York (Stony Brook University Medical Center) - Malignant peripheral nerve sheath tumor
Ohio (St. Elizabeth Health Center) - High-grade sarcoma, r/o extraskeletal mesenchymal chondrosarcoma
Pennsylvania (Magee Women's Hospital) - Leiomyosarcoma
Australia (Royal Hobart Hospital) - Leiomyosarcoma, pending results of immunohistochemical staining
Hong Kong (Kwong Wah Hospital) - Leiomyosarcoma
Saudi Arabia (King Fahad National Guard Hospital) - High grade sarcoma favoring MPNST
Saudi Arabia (King Faisal Specialty Hospital) - Fibrosarcoma, retroperitoneum
United Kingdom (John Radcliffe Hospital) - Pleomorphic sarcoma, NOS

Case 6- Diagnosis:

High grade sarcoma of retroperitoneum
 T-Y4600, M-90403

Directors Note: Additional studies could include EMA and CAM5.2 (to rule out synovial sarcoma). drc

Case 6 - References:

Raut CP and Pisters PW. Retroperitoneal Sarcomas. Combined-Modality Treatment Approaches. *J Surg Oncol* 2006; 94(1):81-87.
 Perez EA, Gutierrez JC, Moffat FL, et al. Retroperitoneal and Truncal Sarcomas. Prognosis Depends Upon Type Not Location. *Ann Surg Oncol* 2007; 14(3):1114-1122.
 Mendenhall WM, Zlotecki RA, Hochwald SN, et al. Retroperitoneal Soft Tissue Sarcoma. *Cancer* 2005; 104(4):669-675.
 Fisher C, Folpe AL, Hashimoto H, et al. Intra-Abdominal Synovial Sarcoma. A Clinicopathological Study. *Histopathol* 2004; 45(3):245-253.
 Alldinger I, Yang Q, Pilarsky C, et al. Retroperitoneal Soft Tissue Sarcomas. Prognosis and Treatment of Primary and Recurrent Disease in 117 Patients. *Anticancer Res* 2006; 26(2B):1577-1581.

Case No. 7, Accession No. 30558

March 2008

Alameda (Alameda County Medical Center) - Liposarcoma, well-differentiated
Long Beach (Long Beach VA Hospital) - Well-differentiated liposarcoma (6)
Oakland - Liposarcoma
Oxnard (St. John's Regional Medical Center) - Liposarcoma (3)
San Diego - Well-differentiated (sclerosing) liposarcoma, retroperitoneum
San Diego (Naval Medical Center) - Liposarcoma, NOS
Santa Rosa Memorial Hospital - Well-differentiated liposarcoma (1); Liposarcoma (1); Myxoid liposarcoma (1)
Woodland Hills - Well-differentiated liposarcoma
Alabama (Baptist Medical Center) - Well-differentiated liposarcoma
Alabama (St. Vincent's Hospital) - Well-differentiated myxoid liposarcoma
Alabama (UAB) - Well-differentiated liposarcoma
Colorado - Well-differentiated liposarcoma
Florida (The Pathology Group) - Liposarcoma, well-differentiated
Georgia (Medical College of Georgia) - Liposarcoma
Indiana (St. Joseph Hospital) - Liposarcoma, well-differentiated (1); Liposarcoma (1)
Iowa (Winneshiek County Medical Hospital) - Liposarcoma
Maryland (Washington DC Group) - Well-differentiated liposarcoma/atypical lipoma
Massachusetts (Tufts-New England Medical Center) - Liposarcoma
Missouri (Missouri Delta Medical Center) - Pleomorphic lipoma
Nevada (Sunrise Hospital) - Well-differentiated liposarcoma
New York (Long Island Jewish Medical Center) - Liposarcoma
New York (St. Luke's-Roosevelt Hospital) - Pleomorphic liposarcoma
New York (Stony Brook University Medical Center) - Well-differentiated liposarcoma
Ohio (St. Elizabeth Health Center) - Liposarcoma (well-differentiated)
Pennsylvania (Magee Women's Hospital) - Liposarcoma, well-differentiated
Australia (Royal Hobart Hospital) - Well-differentiated (sclerosing) liposarcoma

Hong Kong (Kwong Wah Hospital) - Well-differentiated liposarcoma
Saudi Arabia (King Fahad National Guard Hospital) - Liposarcoma
Saudi Arabia (King Faisal Specialty Hospital) - Liposarcoma, retroperitoneum
United Kingdom (John Radcliffe Hospital) - Well-differentiated liposarcoma

Case 7 - Diagnosis:

Well differentiated liposarcoma, retroperitoneum
T-Y4600, M-88513

Case 7 - References:

Chouairry CJ, Abdul-Karim FW, MacLennan GT, et al. Retroperitoneal Liposarcoma. *J Urol* 2007; 177(3):1145.
McCallum OJ, Burke JJ, Childs AJ, et al. Retroperitoneal Liposarcoma Weighing Over One Hundred Pounds with Review of the Literature. *Gynecol Oncol* 2006; 103(3):1152-1154.
Fabre-Guillevin E, Coindre JM, Somerhausen NdeS, et al. Retroperitoneal Liposarcomas. Follow-Up Analysis of Dedifferentiation After Clinicopathologic reexamination of 86 Liposarcomas and Malignant Fibrous Histiocytomas. *Cancer* 2006; 106(12):2725-2733.
Singer S, Antonescu CR, Riedel E, et al. Histologic Subtype and Margin of Resection Predict Pattern of Recurrence and Survival for Retroperitoneal Liposarcoma. *Ann Surg* 2003; 238(3):358-370.
Gronchi A, Casali PG, Fiore M, et al. Retroperitoneal Soft Tissue Sarcomas. Patterns of Recurrence in 167 Patients Treated at a Single Institution. *Cancer* 2004; 100(11):2448-2455.

Case No. 8, Accession No. 30039

March 2008

Alameda (Alameda County Medical Center) - Angiosarcoma
Long Beach (Long Beach VA Hospital) - High grade angiosarcoma (6)
Oxnard (St. John's Regional Medical Center) - Kaposi's angiosarcoma (1); Vascular sarcoma, angiosarcoma (1); High grade angiosarcoma, retroperitoneum (1)
San Diego - Angiosarcoma, retroperitoneum
San Diego (Naval Medical Center) - Poorly differentiated angiosarcoma
Santa Rosa Memorial Hospital - Angiosarcoma, epithelioid type (1); Angiosarcoma (2)
Woodland Hills - Angiosarcoma
Alabama (Baptist Medical Center) - Angiosarcoma
Alabama (St. Vincent's Hospital) - Poorly differentiated epithelioid angiosarcoma
Alabama (UAB) - Angiosarcoma, epithelioid variant
Colorado - Hemangiopericytoma
Florida (The Pathology Group) - Angiosarcoma, poorly differentiated
Georgia (Medical College of Georgia) - Angiosarcoma
Indiana (St. Joseph Hospital) - High grade angiosarcoma (1); Angiosarcoma vs. malignant angiomyolipoma (1)
Iowa (Winnebago County Medical Hospital) - Poorly differentiated carcinoma
Maryland (Washington DC Group) - Angiosarcoma
Massachusetts (Tufts-New England Medical Center) - Angiosarcoma
Missouri (Missouri Delta Medical Center) - Liposarcoma
Nevada (Sunrise Hospital) - Angiosarcoma, high grade
New York (Long Island Jewish Medical Center) - Angiosarcoma
New York (St. Luke's-Roosevelt Hospital) - Angiosarcoma
New York (Stony Brook University Medical Center) - Angiosarcoma
Ohio (St. Elizabeth Health Center) - Angiosarcoma
Pennsylvania (Magee Women's Hospital) - Angiosarcoma
Australia (Royal Hobart Hospital) - Epithelioid angiosarcoma retroperitoneum
Hong Kong (Kwong Wah Hospital) - Angiosarcoma
Saudi Arabia (King Fahad National Guard Hospital) - Angiosarcoma
Saudi Arabia (King Faisal Specialty Hospital) - Angiosarcoma, retroperitoneum
United Kingdom (John Radcliffe Hospital) - High-grade angiosarcoma

Case 8 - Diagnosis:

Angiosarcoma (epithelioid subtype), retroperitoneum
T-71000, M-91203

Case 8 - References:

- Brightman LA, Demierre MF and Byers HR. Macrophage-Rich Epithelioid Angiosarcoma Mimicking Malignant Melanoma. *J Cutan Pathol* 2006; 33(1):38-42.
- Gagner JP, Yim JH, and Yang GC. Fine-Needle Aspiration Cytology of Epithelioid Angiosarcoma. A Diagnostic Dilemma. *Diagn Cytopathol* 2005; 33(6):429-433.
- Klijanienko J, Caillaud JM, Lagace R, et al. Cytohistologic Correlations in Angiosarcoma Including Classic and Epithelioid Variants. *Institut Curie's Experience. Diagn Cytopathol* 2003; 29(3):140-145.
- Allison KH, Yoder BJ, Bronner MP, et al. Angiosarcoma Involving the Gastrointestinal Tract. A Series of Primary and Metastatic Cases. *Am J Surg Pathol* 2004; 28(3):298-307.
- Deyrup AT and Weiss SW. Grading of Soft Tissue Sarcomas. The Challenge of Providing Precise Information in an Imprecise World. *Histopathol* 2006; 48(1):42-50.

Case No. 9, Accession No. 30572

March 2008

- Alameda (Alameda County Medical Center) - Spindle cell carcinoma, poorly differentiated
- Long Beach (Long Beach VA Hospital) - Poorly differentiated spindle cell squamous carcinoma, sarcomatoid type (1); Spindle cell carcinoma vs. monoatrophic (3); Sarcomatoid carcinoma synovial sarcoma (2)
- Oakland - Spindle cell carcinoma
- Oxnard (St. John's Regional Medical Center) - Sarcoma (1); Chordoma ? (1); Malignant fibrous histiocytoma (1)
- San Diego - Synovial sarcoma, maxilla
- San Diego (Naval Medical Center) - Fibrosarcoma
- Santa Rosa Memorial Hospital - Spindle cell (sarcomatoid) squamous cell carcinoma (1); Malignant neoplasm, undifferentiated, consistent with squamous cell carcinoma or synovial sarcoma (1); Spindle cell squamous cell carcinoma (1)
- Woodland Hills - Spindle cell squamous cell carcinoma
- Alabama (Baptist Medical Center) - Monophasic synovial sarcoma
- Alabama (St. Vincent's Hospital) - Synovial sarcoma
- Alabama (UAB) - Spindle cell carcinoma
- Colorado - Spindle cell carcinoma
- Florida (The Pathology Group) - Spindle cell malignant neoplasm, favor synovial sarcoma
- Georgia (Medical College of Georgia) - Spindle cell squamous cell carcinoma
- Indiana (St. Joseph Hospital) - Spindle cell carcinoma (2)
- Iowa (Winnebago County Medical Hospital) - Squamous carcinoma
- Maryland (Washington DC Group) - Spindle cell carcinoma
- Massachusetts (Tufts-New England Medical Center) - Spindle cell carcinoma
- Missouri (Missouri Delta Medical Center) - Spindle cell malignant tumor, liposarcoma
- Nevada (Sunrise Hospital) - Spindle cell carcinoma
- New York (Long Island Jewish Medical Center) - Sarcomatoid carcinoma
- New York (St. Luke's-Roosevelt Hospital) - Synovial sarcoma
- New York (Stony Brook University Medical Center) - Fibrosarcoma
- Ohio (St. Elizabeth Health Center) - Spindle cell carcinoma
- Pennsylvania (Magee Women's Hospital) - Spindle cell carcinoma
- Australia (Royal Hobart Hospital) - Spindle cell squamous cell carcinoma
- Hong Kong (Kwong Wah Hospital) - Spindle cell carcinoma
- Saudi Arabia (King Fahad National Guard Hospital) - High grade sarcoma favoring synovial sarcoma
- Saudi Arabia (King Faisal Specialty Hospital) - Sarcomatoid carcinoma vs. synovial sarcoma, right maxilla
- United Kingdom (John Radcliffe Hospital) - Sarcomatoid carcinoma

Case 9 - Diagnosis:

High grade spindle cell malignancy, favor monophasic synovial sarcoma over spindled carcinoma, maxilla
T-10170, M-90413

Directors Note: “Note the organized fascicular growth pattern and vascularity mimicking that of an HPC” (drc)

Case 9 - References:

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- Mathur S, Kapila K and Verma K. Accuracy of Cytological Grading of Spindle-Cell Sarcomas. *Diagn Cytopathol* 2003; 29(2):79-83.
- Ewing CA, Zakowski MF and Lin O. Monophasic Synovial Sarcoma. A Cytologic Spectrum. *Diagn Cytopathol* 2004; 30(1):19-23.
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Alameda (Alameda County Medical Center) - Granulosa cell tumor
Long Beach (Long Beach VA Hospital) - Granulosa cell tumor (6)
Oakland - Sex cord tumor
Oxnard (St. John's Regional Medical Center) - Sex cord tumor
San Diego - Granulosa cell tumor, ovary
San Diego (Naval Medical Center) - Granulosa cell tumor
Santa Rosa Memorial Hospital - Sertoli cell tumor, annular tubular type (sex cord tumor with annular tubules) (1); Granulosa cell tumor (2)
Woodland Hills - Granulosa cell tumor
Alabama (Baptist Medical Center) - Granulosa cell tumor
Alabama (St. Vincent's Hospital) - Granulosa cell tumor
Alabama (UAB) - Granulosa cell tumor
Colorado - Sex cord tumor with annular tubules
Florida (The Pathology Group) - Adult granulosa cell tumor
Georgia (Medical College of Georgia) - Granulosa cell tumor
Indiana (St. Joseph Hospital) - Adult granulosa cell tumor (1); Granulosa cell tumor (1)
Iowa (Winnebago County Medical Hospital) - Carcinoid tumor
Maryland (Washington DC Group) - Sex cord tumor with annular tubules
Massachusetts (Tufts-New England Medical Center) - Adult granulosa cell tumor
Missouri (Missouri Delta Medical Center) - Adult granulosa cell tumor
Nevada (Sunrise Hospital) - Adult granulosa cell tumor
New York (Long Island Jewish Medical Center) - Granulosa cell tumor
New York (St. Luke's-Roosevelt Hospital) - Granulosa cell tumor
New York (Stony Brook University Medical Center) - Adult granulosa cell tumor
Ohio (St. Elizabeth Health Center) - Granulosa cell tumor
Pennsylvania (Magee Women's Hospital) - Granulosa cell tumor
Australia (Royal Hobart Hospital) - Adult granulosa cell tumor
Hong Kong (Kwong Wah Hospital) - Adult granulosa cell tumor
Saudi Arabia (King Fahad National Guard Hospital) - Granulosa cell tumor
Saudi Arabia (King Faisal Specialty Hospital) - Sex cord stromal tumor with annular tubules, ovary
United Kingdom (John Radcliffe Hospital) - Granulosa cell tumor

Case 10 - Diagnosis:

Granulosa cell tumor, ovary
T-87000, M-86203

Case 10 - References:

- 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.
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