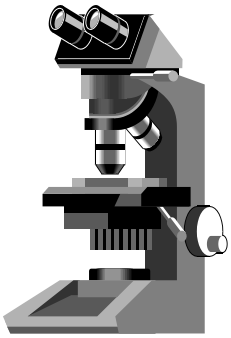
CALIFORNIA
TUMOR TISSUE REGISTRY

"Genitourinary & Prostatic Neoplasms"

Minutes – Subscription B

May, 2007



SUGGESTED READING (General Topics from Recent Literature):

Utility of ALK-1 Protein Expression and ALK Rearrangements in Distinguishing Inflammatory Myofibroblastic Tumor From Malignant Spindle Cell Lesions of the Urinary Bladder. Sukov WR, Cheville JC, et al. *Mod Pathol* 2007; 20:592-603.

The Pathology of Gastic Cardia. A Prospective, Endoscopic and Morphologic Study. Cestari R, Villanacci V, et al. *Am J Surg Pathol* 2007; 31:706-710.

Late-Onset Wilson's Disease. Ferenci P and Czlonkowska A. *Gastroenterology* 2007; 132:1294-1298.

Diagnosis of Chronic Endometritis in Biopsies with Stromal Breakdown. Gilmore H, Fleischhacker D and Hecht JL. *Hum Pathol* 2007; 38:581-584.

Immunostaining for SYT Protein Discriminates Synovial Sarcoma from Other Soft Tissue Tumors. Analysis of 146 Cases. He R, Patel RM, et al. *Mod Pathol* 2007; 20:522-528.

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FILE DIAGNOSES

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

CTTR Subscription B May 2007

Case 1:
Smooth muscle hyperplasia/hamartoma, testicular adnexa
T-78000, M-75500

Case 2:
Herpes simplex viral infection of foreskin
T-02540, D-0404

Case 3:
Paget's disease, foreskin
T-76330, M-85423

Case 4:
Low grade myosarcoma ("leiomyosarcoma"), scrotum
T-79400, M-88903

Case 5:
Extramedullary myeloid tumor, testis
T-78000, M-73500

Case 6:
Classic seminoma with intratubular germ cell neoplasia (ITGCN), testis
T-78000, M-90613

Case 7:
Mixed germ cell tumor with teratoma and yolk sac components, testis
T-78000, M-86310

Case 8:
Oncocytoma, kidney
T-71000, M-82900

Case 9:
Multilocular renal cell carcinoma, clear cell type, kidney
T-71000, M-83123

Case 10:
Papillary renal cell carcinoma, kidney
T-71000, M-83123

Case No. 1 - Accession No. 30447 **May, 2007**

Canoga Park - Leiomyoma
Escondido - Idiopathic smooth muscle hyperplasia
Glendale - Leiomyoma
Loma Linda - Vasitis nodosa
Mountain View (El Camino Hospital) - Leiomyoma
Orange (UCI Medical Center) - Leiomyoma
Palo Alto - Leiomyoma vs. smooth muscle hyperplasia
San Diego (Naval Medical Center San Diego) - Leiomyoma
San Diego (UCSD Medical Center) - Leiomyoma
San Francisco (San Francisco General Hospital) - Leiomyoma
Arkansas (University of Arkansas Medical Center) - Leiomyoma, epididymus
Connecticut (West Hartford) - Fibrous psudotumor
Florida (Munroe Regional Medical Center) - Fibrous psudotumor
Illinois (Heartland Regional Medical Center) - Localized smooth muscle hyperplasia (leiomyoma-like) of epididymis
Illinois (Loyola University Medical Center) - Nodular and diffuse fibrous proliferation
Kansas (Coffeyville Regional Medical Center) - Leiomyoma
Kansas (Peterson Laboratory Services) - Leiomyoma
Kansas (Physicians Reference Laboratory) - Leiomyoma
Louisiana (LSUHSC Pathology) - Leiomyoma
Maryland (The John's Hopkin's Hospital) - Leiomyoma
Maryland (University of Maryland Medical Center) - Leiomyoma
Massachusetts (UMASS Memorial Medical Center) - Leiomyoma
Michigan (Henry Ford Hospital) - Leiomyoma
Missouri (Truman Medical Center) - Smooth muscle hamartoma
New York (Nassau University Medical Center) - Leiomyoma
New York (Stony Brook University Hospital) - Leiomyoma
New York (SUNY Downstate Medical Center) - Sperm granuloma vs. smooth muscle lesion
North Carolina (Winston-Salem) - Paratesticular leiomyoma with secondary testicular atrophy
North Carolina (Womack Army Medical Center) - Leiomyoma
Ohio, Columbus - Epididymis, smooth muscle proliferation
Oklahoma (Oklahoma University Medical Center) - Leiomyoma
Pennsylvania (Conemaugh Memorial Medical Center) - Leiomyoma
Pennsylvania (Drexel University College of Medicine) - Leiomyoma
Pennsylvania (Wilkes-Barre General Hospital) - Smooth muscle hyperplasia of testicular adnexa
Puerto Rico (University of Puerto Rico) - Nodular and diffuse fibrous proliferation
South Dakota (LCM Pathologists, P.C.) - Leiomyoma
Texas, Lubbock - Leiomyoma
Texas (Scott & White Memorial Hospital) - Smooth muscle hyperplasia of testicular adnexa
Texas, Sugarland - Adenomatoid tumor
West Virginia (Wetzel County Hospital) - Spermatocele
Brazil (Laboratorio Anatomia Pathologica Ecitologia) - Leiomyoma, epididymis
Canada (Pasqua Hospital) - Leiomyoma
China (Sir Run Run Shaw Hospital) - Leiomyoma
Ireland (Galway Residents) - Leiomyoma with maturation arrest/fibromatosis
Japan (Asahi General Hospital) - Leiomyosarcoma
Japan (Gunma University) - Leiomyoma
Japan (Hamamatsu University School of Medicine) - Leiomyoma
Qatar (Hamad Medical Corporation) - Epididymal leiomyoma (3); Proliferative funiculitis (2)
Saudi Arabia (King Fahad National Guard Hospital) - Smooth muscle hyperplasia of testicular adnexa
Spain (Povisa Hospital) - Leiomyoma
United Kingdom (Radcliffe Hospital) - Epididymis/leiomyoma

Case 1 - Diagnosis:

Smooth muscle hyperplasia/hamartoma, testicular adnexa
T-78000, M-75500

Case 1 - References:

Fisher WC and Helwig EB. Leiomyomas of the Skin *Arch Dermatology* 1963; 88:510-520.

Fridman E, Skarda J, Ofek-Moravsky E, et al. Complex Multilocular Cystic Lesion of Rete Testis, Accompanied by Smooth Muscle Hyperplasia, Mimicking Intratesticular Leydig Cell Neoplasm. *Virchows Arch* 2005; 447(4):768-771.
van Kooten EO, Hage JJ, Meinhardt W, et al. Acquired Smooth-Muscle Hamartoma of the Scrotum. A Histological Simulator? *J Cutan Pathol* 2004; 31(5):388-392.
Fine SW, Davis NJ, Lykins LE, et al. Solitary Testicular Myofibroma. A Case Report and Review of the Literature. *Arch Pathol Lab Med* 2005; 129(10):1322-1325.
Schrecengost JE, Tabbara S, Patterson J, et al. Cutaneous Mesenchymal Hamartoma with Mixed Myogenous Differentiation. *J Cutan Pathol* 2006; 33(4):327-330.
Holst VA, Junkins-Hopkins JM and Elenitsas R. Cutaneous Smooth Muscle Neoplasms. Clinical Features, Histologic Findings, and Treatment Options. *J Am Acad Dermatol* 2002; 46(4):477-490.

Case No. 2 - Accession No. 30528 May, 2007

Canoga Park - Balanitis with necrosis and ulceration
Escondido - Syphilis
Glendale - Chronic balanitis
Loma Linda - Ulcer, foreskin
Mountain View (El Camino Hospital) - Balanitis, r/o syphilis
Orange (UCI Medical Center) - Vasculitis
Palo Alto - Necrotizing balanitis
San Diego (Naval Medical Center San Diego) - HSV balanitis
San Diego (UCSD Medical Center) - Zoon's balanitis/plasma cell
San Francisco (San Francisco General Hospital) - Chronic ulcerative balanitis
Arkansas (University of Arkansas Medical Center) - Primary chancre, penis
Connecticut (West Hartford) - T-cell lymphoma
Florida (Munroe Regional Medical Center) - Chronic endarteritis/syphilis
Illinois (Heartland Regional Medical Center) - Herpes simplex dermatitis with ulceration
Illinois (Loyola University Medical Center) - HSV balanitis
Kansas (Coffeyville Regional Medical Center) - Epithelial hyperplasia with ulcer and chronic and acute inflammation
Kansas (Peterson Laboratory Services) - Herpatic ulcers
Kansas (Physicians Reference Laboratory) - Ulcer and necrosis
Louisiana (LSUHSC Pathology) - Suspect malignant lymphoproliferative process
Maryland (The John's Hopkin's Hospital) - Gangrenous balanitis
Maryland (University of Maryland Medical Center) - Gangrenous balanitis (Corbus disease)
Massachusetts (UMASS Memorial Medical Center) - Balanitis
Michigan (Henry Ford Hospital) - Gangrenous balanitis
Missouri (Truman Medical Center) - Herpes
New York (Nassau University Medical Center) - Ulcerating acute and chronic inflammation
New York (Stony Brook University Hospital) - Syphilic chancre
New York (SUNY Downstate Medical Center) - Herpis
North Carolina (Winston-Salem) - Gangrenous balanitis
North Carolina (Womack Army Medical Center) - Posthitis, NOS (4)
Ohio, Columbus - Foreskin, ulceration, acute/chronic inflammation, prob herpes
Oklahoma (Oklahoma University Medical Center) - Bahcet's disease
Pennsylvania (Conemaugh Memorial Medical Center) - Balanitis xerotica obliterans
Pennsylvania (Drexel University College of Medicine) - Ulcerated balanitis with herpes simplex virus infection
Pennsylvania (Wilkes-Barre General Hospital) - Balanitis xerotica obliterans, ulcerated
Puerto Rico (University of Puerto Rico) - Herpetic ulcer
South Dakota (LCM Pathologists, P.C.) - Balanitis circumscripta plasmacellularis
Texas, Lubbock - Malignant lymphoma
Texas (Scott & White Memorial Hospital) - Balanitis of Zoon
Texas, Sugarland - Chronic ulcerative prosthesis
West Virginia (Wetzel County Hospital) - Gangrenous balanitis
Brazil (Laboratorio Anatomia Pathologica Ecitologia) - Syphilis/mucosal neuroma
Canada (Pasqua Hospital) - Zoon's balanitis
Canada (Sherbrooke University Hospital) - Lues
China (Sir Run Run Shaw Hospital) - Syphilis
Ireland (Galway Residents) - Syphilic chancre/angioneuroma
Japan (Asahi General Hospital) - Herpes simplex virus infection of foreskin
Japan (Gunma University) - Herpes virus infection

Japan (Hamamatsu University School of Medicine) - Superficial spreading melanoma
Qatar (Hamad Medical Corporation) - Balanitis circumscripta (Zoon's balanitis)
Saudi Arabia (King Fahad National Guard Hospital) - Fournier's gengrene
Spain (Povisa Hospital) - Hepatic ulcers (vs. syphilis)
United Kingdom (Radcliffe Hospital) - Plasma cell balanitis, foreskin

Case 2 - Diagnosis:

Hepes simplex viral infection of foreskin
T-02540, D-0404

Case 2 - References:

Mertz GJ, Jourden J and Remington M, et al. Risk of Transmission of Genital Herpes. Presented at Fifth International Meeting, International Society for STD Research, Seattle, August 1-3 1983.

Nahmias AJ and Roizman B. Infection with Herpes Simplex 1 and 2. *N Engl J Med* 1973; 289(15):667; 781-789.

Vardi A, Dagan R and Engelhard D. Neonatal Genital Herpes Simplex Virus Type 1 Infection After Jewish Ritual Circumcision. Modern Medicine and Religious Tradition. *Pediatrics* 2004; 114(2):259-263.

Roest RW, Maertzdorf J, Kant M, van der Meijden WI, et al. High Incidence of Genotypic Variance Between Sequential Herpes Simplex Virus Type 2 Isolates from HIV-1-Seropositive Patients with Recurrent Genital Herpes. *J Infect Dis* 2006; 194(8):1115-1118.

Cunningham AL, Diefenbach RJ, Miranda-Saksena M, et al. The Cycle of Human Herpes Simplex Virus Infection. Virus Transport and Immune Control. *J Infect Dis* 2006; 194 Suppl 1 pS11-8.

Kimberlin DW. Diagnosis of Herpes Simplex Virus in the Era of Polymerase Chain Reaction. *Pediatr Infect Dis* J 2006; 23(9):841-842.

Xu, F, Sternberg MR, Kottiri BJ, et al. Trends in Herpes Simplex Virus Type I and Type 2 Seroprevalence in the United States. *JAMA* 2006; 296(8):964-973.

Case No. 3 - Accession No. 30530 May, 2007

Canoga Park - Paget's disease
Escondido - Paget's disease
Glendale - Paget's disease secondary to prostate carcinoma
Loma Linda - Extra mammary Paget's (erythroplasia of queda)
Mountain View (El Camino Hospital) - Paget's disease
Orange (UCI Medical Center) - Paget's disease
Palo Alto - Metastatic prostate carcinoma
San Diego (Naval Medical Center San Diego) - Extramammary Paget's disease
San Diego (UCSD Medical Center) - Paget's disease
San Francisco (San Francisco General Hospital) - Paget's disease
Arkansas (University of Arkansas Medical Center) - Extra-mammary Paget's disease, penis
Connecticut (West Hartford) - Metastatic prostatic adenocarcinoma
Florida (Munroe Regional Medical Center) - Paget's disease of foreskin
Illinois (Heartland Regional Medical Center) - Paget's disease
Illinois (Loyola University Medical Center) - Paget's disease
Kansas (Coffeyville Regional Medical Center) - Paget's disease of foreskin
Kansas (Peterson Laboratory Services) - Extramammary Paget's
Kansas (Physicians Reference Laboratory) - Paget's disease
Louisiana (LSUHSC Pathology) - Adenocarcinoma, metastatic to foreskin (?prostate 1 degree)
Maryland (The John's Hopkin's Hospital) - Paget's disease
Maryland (University of Maryland Medical Center) - Extra-mammary Paget's disease
Massachusetts (UMASS Memorial Medical Center) - Paget's disease
Michigan (Henry Ford Hospital) - Paget's disease
Missouri (Truman Medical Center) - Extra-mammary Paget's
New York (Nassau University Medical Center) - Paget's disease
New York (Stony Brook University Hospital) - Extra-mammary Paget's disease
New York (SUNY Downstate Medical Center) - Paget's disease
North Carolina (Winston-Salem) - Paget's disease
North Carolina (Womack Army Medical Center) - Paget's disease (4)
Ohio, Columbus - Paget's disease, foreskin
Oklahoma (Oklahoma University Medical Center) - Paget's disease
Pennsylvania (Conemaugh Memorial Medical Center) - Extra-mammary Paget's disease

Pennsylvania (Drexel University College of Medicine) - Paget's disease
Pennsylvania (Wilkes-Barre General Hospital) - Extra-mammary Paget's disease
Puerto Rico (University of Puerto Rico) - Paget's disease of the penis
South Dakota (LCM Pathologists, P.C.) - Extra-mammary Paget's disease
Texas, Lubbock - Paget's disease
Texas (Scott & White Memorial Hospital) - Paget's disease
Texas, Sugarland - Paget's disease
West Virginia (Wetzel County Hospital) - Paget's disease
Brazil (Laboratorio Anatomia Pathologica Ecitologia) - Extra-mammary Paget's disease (prostate primary)
Canada (Pasqua Hospital) - Paget's disease
Canada (Sherbrooke University Hospital) - Paget's disease
China (Sir Run Run Shaw Hospital) - Paget's disease
Ireland (Galway Residents) - Extra-mammary Paget's disease
Japan (Asahi General Hospital) - Paget's disease
Japan (Gunma University) - Extra-mammary Paget's disease
Japan (Hamamatsu University School of Medicine) - Paget's disease
Qatar (Hamad Medical Corporation) - Paget's disease of the penis (carcinoma of colon should be excluded)
Saudi Arabia (King Fahad National Guard Hospital) - Paget's disease
Spain (Povisa Hospital) - Paget's disease
United Kingdom (Radcliffe Hospital) - Paget's disease, foreskin

Case 3 - Diagnosis:

Paget's disease, foreskin
T-76330, M-85423

Case 3 - References:

Dionyssopoulos A, Mandekou-Lefaki I, Vakirlis E, et al. Extramammary Paget's Disease Isolated Localization on the Groin-Wide Local Excision with Immedicate Reconstruction. *Ann Surg Oncol* 2006; 13(9):1235-1240.

Henning JS. Extramammary Paget's Disease of the Penis and Scrotum. *J Drugs Dermatol* 2006; 5(7):652-654.

Donoval BA, Landay AL, Moses S, et al. HIV-1 Target Cells in Foreskins of African Men with Varying Histories of Sexually Transmitted Infections. *Am J Clin Pathol* 2006; 125(3):386-391.

Yang WJ, Kim DS, Im YJ, et al. Extramammary Paget's Disease of Penis and Scrotum. *Urol* 2005; 65(5):972-975.

Quinn AM, Sienko A, Basrawala Z, et al. Extramammary Paget Disease of the Scrotum with Features of Bowen Disease. *Arch Pathol Lab Med* 2004; 128(1):84-86.

Case No. 4 - Accession No. 30392 May, 2007

Canoga Park - Fibromatosis vs. proliferative funiculitis
Escondido - Myxoid leiomyosarcoma
Loma Linda - Fibromatosis, spermatic cord
Mountain View (El Camino Hospital) - Leiomyosarcoma, low grade
Orange (UCI Medical Center) - Malignant myofibroblastic tumor
Palo Alto - Leiomyosarcoma
San Diego (Naval Medical Center San Diego) - Fibrous pseudotumor
San Diego (UCSD Medical Center) - Inflammatory myofibroblastic tumor
San Francisco (San Francisco General Hospital) - Leiomyoma
Connecticut (West Hartford) - Leiomyosarcoma
Florida (Munroe Regional Medical Center) - Rhabdomyosarcoma
Illinois (Heartland Regional Medical Center) - Myofibromatous tumor
Illinois (Loyola University Medical Center) - Rhabdomyosarcoma
Kansas (Coffeyville Regional Medical Center) - Leiomyoma
Kansas (Peterson Laboratory Services) - Leiomyosarcoma
Kansas (Physicians Reference Laboratory) - Paratesticular rhabdomyoma
Louisiana (LSUHSC Pathology) - Proliferative funicitis
Maryland (The John's Hopkin's Hospital) - Low grade leiomyosarcoma
Maryland (University of Maryland Medical Center) - Low grade leiomyosarcoma
Massachusetts (UMASS Memorial Medical Center) - Myofibroblastic tumor with unknown malignant potential
Michigan (Henry Ford Hospital) - Angiomyofibroblastoma
Missouri (Truman Medical Center) - Myofibroblastoma

New York (Nassau University Medical Center) - Steroid cell tumor
New York (Stony Brook University Hospital) - Pseudoinflammatory tumor
New York (SUNY Downstate Medical Center) - Myofibroblastic lesion
North Carolina (Winston-Salem) - Angiomyofibroblastoma
North Carolina (Womack Army Medical Center) - Nodular and diffuse fibrous proliferation (4)
Ohio, Columbus - Spindle cell proliferation, scrotum
Oklahoma (Oklahoma University Medical Center) - Neurofibroma
Pennsylvania (Conemaugh Memorial Medical Center) - Peritesticular fibrosis
Pennsylvania (Drexel University College of Medicine) - Desmoplastic fibroblastoma/fibromatosis
Pennsylvania (Wilkes-Barre General Hospital) - Angiomyofibroblastoma
Puerto Rico (University of Puerto Rico) - Fibromatosis/smooth muscle hyperplasia
South Dakota (LCM Pathologists, P.C.) - Malignant hematopoetic neoplasm
Texas, Lubbock - Embryonal rhabdomyosarcoma
Texas (Scott & White Memorial Hospital) - Myofibroblastoma
Texas, Sugarland - Leiomyoma
West Virginia (Wetzel County Hospital) - Myofibroblastoma
Brazil (Laboratorio Anatomia Pathologica Ecitologia) - Spindle cell rhabdomyosarcoma
Canada (Pasqua Hospital) - Neurofibroma
Canada (Sherbrooke University Hospital) - Rhabdomyosarcoma
China (Sir Run Run Shaw Hospital) - Myofibroblastoma
Ireland (Galway Residents) - Sclerosing well-differentiated liposarcoma with ? dedifferentiation
Japan (Asahi General Hospital) - Angiomyofibroblastoma
Japan (Gunma University) - Fibrosarcoma
Japan (Hamamatsu University School of Medicine) - Cellular angiofibroma
Qatar (Hamad Medical Corporation) - Leiomyoma (3); Angiomyofibroblastoma (2)
Saudi Arabia (King Fahad National Guard Hospital) - Leiomyoma
Spain (Povisa Hospital) - Cellular angiofibroma (vs. low grade leiomyosarcoma)
United Kingdom (Radcliffe Hospital) - Genital rhabdomyoma , spermatic cord

Case 4 - Diagnosis:

Low grade myosarcoma ("leiomyosarcoma"), scrotum
T-79400, M-88903

Case 4 - References:

Collier DS, Pain JA and Hamilton-Dutoit SJ. Leiomyosarcoma of the Scrotum. *J Surg Oncol* 1987(3); 34:176-178
Johnson H. Jr. Leiomyosarcoma of Scrotum. *Urol* 1987(4); 29:436-438.
Ray B, Huvos AG and Whitmore WF Jr. Unusual Malignant Tumors of the Scrotum. Review of 5 Cases *J Urol* 1972; 108(5):760-766.
Watanabi K,Ogawa O, Komatasu H, et al. Malignant Fibrous Histiocytoma of Scrotal Wall. A Case Report. *J Urol* 1988; 140(1):151-152.

Case No. 5 - Accession No. 30420 May, 2007

Canoga Park - Anaplastic large cell lymphoma
Escondido - Granulocytic sarcoma
Glendale - High grade lymphoma
Loma Linda - Lymphoma
Mountain View (El Camino Hospital) - Granulocytic sarcoma (Amol-M5)
Orange (UCI Medical Center) - Granulocytic sarcoma
Palo Alto - Lymphoma
San Diego (Naval Medical Center San Diego) - Hematolymphoid neoplasm; favor T-cell (8); AML (3);NKIT cell (1)
San Diego (UCSD Medical Center) - Myeloid sarcoma
San Francisco (San Francisco General Hospital) - Chloroma
Arkansas (University of Arkansas Medical Center) - Hematolymphoid neoplasm, favor acute monocytic leukemia, testis
Connecticut (West Hartford) - Chloroma/Leukemia myeloid, acute
Florida (Munroe Regional Medical Center) - Diffuse large cell lymphoma
Illinois (Heartland Regional Medical Center) - Acute myelogenous leukemia (chloroma)
Kansas (Coffeyville Regional Medical Center) - Granulocytic sarcoma
Kansas (Peterson Laboratory Services) - Extramedullary myeloid tumor
Kansas (Physicians Reference Laboratory) - Granulocytic sarcoma

Louisiana (LSUHSC Pathology) - Large cell lymphoma
Maryland (The John's Hopkin's Hospital) - Granulocytic sarcoma
Maryland (University of Maryland Medical Center) - Myeloid sarcoma involving the testis
Massachusetts (UMASS Memorial Medical Center) - Myeloid sarcoma
Michigan (Henry Ford Hospital) - Blastic NK cell lymphoma
Missouri (Truman Medical Center) - Granulocytic sarcoma
New York (Nassau University Medical Center) - T-cell lymphoma
New York (Stony Brook University Hospital) - Systemic mast cell disease
New York (SUNY Downstate Medical Center) - Anaplastic large cell lymphoma
North Carolina (Winston-Salem) - Granulocytic sarcoma
North Carolina (Womack Army Medical Center) - Malignant hematopoietic neoplasm (4)
Ohio, Columbus - Neoplastic hematopoietic infiltrate, testis
Oklahoma (Oklahoma University Medical Center) - NK-cell lymphoma
Pennsylvania (Conemaugh Memorial Medical Center) - Large granular cell T-cell lymphoma
Pennsylvania (Drexel University College of Medicine) - Myeloid sarcoma (monocytic type)
Pennsylvania (Wilkes-Barre General Hospital) - Anaplastic lymphoma, T-cell
Puerto Rico (University of Puerto Rico) - Granulocytic sarcoma/T-cell lymphoma
South Dakota (LCM Pathologists, P.C.) - Malignant hematopoetic neoplasm
Texas, Lubbock - Granulocytic sarcoma
Texas (Scott & White Memorial Hospital) - Large cell lymphoma
Texas, Sugarland - Malignant lymphoma
West Virginia (Wetzel County Hospital) - Diffuse large B-cell lymphoma
Brazil (Laboratorio Anatomia Pathologica Ecitologia) - Histocytic sarcoma (1); Peripheral T-cell lymphoma, unspecified (1)
Canada (Pasqua Hospital) - CD4/CD56 positive hematodermic neoplasm
Canada (Sherbrooke University Hospital) - T-cell malignant lymphoma , extra nodal
China (Sir Run Run Shaw Hospital) - Malignant lymphoma
Ireland (Galway Residents) - DLBCL
Japan (Asahi General Hospital) - Peripheral T-cell lymphoma, unspecified
Japan (Gunma University) - Malignant lymphoma
Japan (Hamamatsu University School of Medicine) - Malignant lymphoma, diffuse large
Qatar (Hamad Medical Corporation) - Non-Hodgkin's lymphoma, T-cell type
Saudi Arabia (King Fahad National Guard Hospital) - Extra-nodal NK/T-cell lymphoma
Spain (Povisa Hospital) - Granulocytic sarcoma
United Kingdom (Radcliffe Hospital) - Histocytic lymphoma, testis

Case 5 - Diagnosis:

Extramedullary myeloid tumor, testis
T-78000, M-73500

Outside Consultation: Gary Keeney, M.D. (Mayo Clinic; Rochester, MN): "Extramedullary myeloid tumor with monocytic differentiation, testis."

Case 5 - References:

Konoplev S and Bueso-Ramos CE. Advances in the Pathologic Diagnosis and Biology of Acute Myeloid Leukemia. *Am Diagn Pathol* 2006; 10(1):39-65.
Hu SW, Huang SP, Yang SF, et al. Chloroma of the Testis after Allogeneic Peripheral Blood Stem Cell Transplantation. A Case Report. Kaohsiung *J Med Sci* 2004; 20(10):506-511.
Valbuena JR, Admirand JH, Lin P, et al. Myeloid Sarcoma Involving the Testis. *Am J Clin Pathol* 2005; 124(3):445-452.
Rawal A, Keeler TC and Milano MA. Testicular Extramedullary Myeloid Cell Tumor. Report of a Case with Unique Clinicopathologic Features and a Brief Review of the Literature. *Arch Pathol Lab Med* 2004; 128(3):332-334.
Lane JE, Walker AN, Kulharya A, et al. Cutaneous Sclerosing Extramedullary Hematopoietic Tumor in Chronic Myelogenous Leukemia. *J Cutan Pathol* 2002; 29(10):608-612.

Case No. 6 - Accession No. 30372 May, 2007

Canoga Park - Seminoma
Escondido - Seminoma
Glendale - Seminoma
Loma Linda - Seminoma

Mountain View (El Camino Hospital) - Seminoma
Orange (UCI Medical Center) - Seminoma
Palo Alto - Seminoma
San Diego (Naval Medical Center San Diego) - Seminoma
San Diego (UCSD Medical Center) - Seminoma
San Francisco (San Francisco General Hospital) - Seminoma
Arkansas (University of Arkansas Medical Center) - Seminoma, classic type, testis
Connecticut (West Hartford) - Seminoma
Florida (Munroe Regional Medical Center) - Seminoma
Illinois (Heartland Regional Medical Center) - Seminoma
Kansas (Coffeyville Regional Medical Center) - Seminoma
Kansas (Peterson Laboratory Services) - Classic seminoma
Kansas (Physicians Reference Laboratory) - Seminoma
Louisiana (LSUHSC Pathology) - Seminoma
Maryland (The John's Hopkin's Hospital) - Seminoma, classical type
Maryland (University of Maryland Medical Center) - Classic seminoma
Massachusetts (UMASS Memorial Medical Center) - Seminoma
Michigan (Henry Ford Hospital) - Classic seminoma
Missouri (Truman Medical Center) - Seminoma
New York (Nassau University Medical Center) - Seminoma
New York (Stony Brook University Hospital) - Spermatocytic seminoma
New York (SUNY Downstate Medical Center) - Seminoma
North Carolina (Winston-Salem) - Seminoma with intratubular germ cell neoplasia
North Carolina (Womack Army Medical Center) - Seminoma, classic (4)
Ohio, Columbus - Seminoma, testis
Oklahoma (Oklahoma University Medical Center) - Spermatocytic seminoma
Pennsylvania (Conemaugh Memorial Medical Center) - Anaplastic seminoma
Pennsylvania (Drexel University College of Medicine) - Seminoma, classical type
Pennsylvania (Wilkes-Barre General Hospital) - Spermatocytic seminoma
Puerto Rico (University of Puerto Rico) - Classic sarcoma/T-cell lymphoma
South Dakota (LCM Pathologists, P.C.) - Seminoma
Texas, Lubbock - Seminoma
Texas (Scott & White Memorial Hospital) - Seminoma
Texas, Sugarland - Seminoma
West Virginia (Wetzel County Hospital) - Seminoma
Brazil (Laboratorio Anatomia Pathologica Ecitologia) - Classic seminoma
Canada (Pasqua Hospital) - Seminoma
Canada (Sherbrooke University Hospital) - Seminoma
China (Sir Run Run Shaw Hospital) - Seminoma
Ireland (Galway Residents) - Classic seminoma
Japan (Asahi General Hospital) - Seminoma
Japan (Gunma University) - Seminoma
Japan (Hamamatsu University School of Medicine) - Seminoma
Qatar (Hamad Medical Corporation) - Seminoma
Saudi Arabia (King Fahad National Guard Hospital) - Seminoma and intratubular germ cell neoplasm (ITGCN)
Spain (Povisa Hospital) - Classic seminoma with intratubular neoplasia
United Kingdom (Radcliffe Hospital) - Classical seminoma, testis

Case 6 - Diagnosis:

Classic seminoma with intratubular germ cell neoplasia (ITGCN), testis
T-78000, M-90613

Case 6 - References:

Burke AP and Mostofi FK. Intratubular Malignant Germ Cells in Testicular Biopsies. Clinical Course and Identification by Staining For Placental Alkaline Phosphatase. *Mod Pathol* 1988; 1(6):475-479.
Klein FA, Melamed MR and Whtimore WF Jr. Intratubular Malignant Germ Cells (Carcinoma In-Situ) Accompanying Invasive Testicular Germ Cell Tumors. *J Urol* 1985; 133(3):413-415.
Coffin CM, Ewing S, Dehner LP. Frequency of Interlobular Germ Cell Neoplasia with Invasive Testicular Germ Cell Tumors. Histologic and Immunocytochemical Features. *Arch Pathol Lab Med* 1985; 109(6):555-559.
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Case No. 7 - Accession No. 30225 **May, 2007**

Canoga Park - Immature teratoma with embryonal and yolk sac cancer
Escondido - Teratoma and yolk sac tumor
Glendale - Mixed germ cell tumor, yolk sac and teratoma
Loma Linda - Teratoma, testicle
Mountain View (El Camino Hospital) - Mixed germ cell tumor (immature teratoma and yolk sac)
Orange (UCI Medical Center) - Mixed germ cell tumor (teratoma and yolk sac tumor)
Palo Alto - Teratoma
San Diego (Naval Medical Center San Diego) - Mixed germ cell tumor
San Diego (UCSD Medical Center) - Malignant mixed germ cell tumor, yolk sac and immature teratoma
San Francisco (San Francisco General Hospital) - Mixed germ cell tumor
Arkansas (University of Arkansas Medical Center) - Immature teratoma, testis
Connecticut (West Hartford) - Yolk sac tumor
Florida (Munroe Regional Medical Center) - Mixed germ cell tumor with teratoma and yolk sac tumor
Illinois (Heartland Regional Medical Center) - Malignant mixed germ cell neoplasm (teratoma, endodermal sinus tumor)
Kansas (Coffeyville Regional Medical Center) - Teratoma
Kansas (Peterson Laboratory Services) - Mixed germ cell tumor, immature teratoma and yolk sac
Kansas (Physicians Reference Laboratory) - Mixed germ cell tumor with teratoma and yolk sac tumor
Louisiana (LSUHSC Pathology) - Malignant germ cell tumor with teratoma and PNET
Maryland (The John's Hopkin's Hospital) - Mixed germ cell tumor with teratoma, yolk sac and focal seminoma elements
Maryland (University of Maryland Medical Center) - Mixed germ cell tumor with yolk sac and mature teratoma components
Massachusetts (UMASS Memorial Medical Center) - Non-seminomatous mixed germ cell tumor
Michigan (Henry Ford Hospital) - Mixed germ cell tumor with teratomatous and yolk sac components
Missouri (Truman Medical Center) - Immature teratoma
New York (Stony Brook University Hospital) - Mixed germ cell tumor with mature teratoma and yolk sac component
New York (SUNY Downstate Medical Center) - Mixed germ cell tumor (teratoma and yolk sac tumor)
North Carolina (Winston-Salem) - Malignant mixed germ cell tumor (YST and immature teratoma)
North Carolina (Womack Army Medical Center) - Mixed germ cell tumor (4)
Ohio, Columbus - Germ cell tumor, testis
Oklahoma (Oklahoma University Medical Center) - Immature teratoma
Pennsylvania (Conemaugh Memorial Medical Center) - Mixed germ cell tumor
Pennsylvania (Drexel University College of Medicine) - Mixed germ cell tumor
Pennsylvania (Wilkes-Barre General Hospital) - Non-seminomatous germ cell tumor, (PNET) immature teratoma with yolk sac tumor
Puerto Rico (University of Puerto Rico) - Mixed germ cell tumor, immature teratoma and yolk sac tumor
South Dakota (LCM Pathologists, P.C.) - Non-seminomatous germ cell tumor with teratoma and yolk sac components
Texas, Lubbock - Mixed non-seminomatous germ cell tumor
Texas (Scott & White Memorial Hospital) - Mixed germ cell tumor with teratomatous and yolk sac components
Texas, Sugarland - Non-seminomatous germ cell tumor (immature teratoma, yolk sac tumor)
West Virginia (Wetzel County Hospital) - Mixed germ cell tumor with embryonal yolk sac and teratomatous elements
Brazil (Laboratorio Anatomia Pathologica Ecitologia) - Mixed germ cell tumor (immature teratoma and embryonal carcinoma)
Canada (Pasqua Hospital) - Teratoma and yolk sac tumor
Canada (Sherbrooke University Hospital) - Mixed germ cell tumor, teratoma and embryonal carcinoma and yolk sac tumor
China (Sir Run Run Shaw Hospital) - Mixed germ cell tumor
Ireland (Galway Residents) - Mature cystic teratoma
Japan (Asahi General Hospital) - Mixed teratoma and yolk sac tumor
Japan (Gunma University) - Yolk sac tumor and immature teratoma
Japan (Hamamatsu University School of Medicine) - Mixed germ cell tumor composed of yolk sac tumor, embryonal
Qatar (Hamad Medical Corporation) - Malignant mixed germ cell tumor
Saudi Arabia (King Fahad National Guard Hospital) - Malignant mixed germ cell tumor
Spain (Povisa Hospital) - Mixed germ cell tumor, immature and mature teratoma and yolk sac tumor
United Kingdom (Radcliffe Hospital) - Immature teratoma, testis

Case 7 - Diagnosis:

Mixed germ cell tumor with teratoma and yolk sac components, testis
T-78000, M-86310

Case 7 - References:

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Case No. 8 - Accession No. 30431 May, 2007

Canoga Park - Renal oncocytoma
Escondido - Oncocytoma
Glendale - Oncocytoma
Loma Linda - Oncocytic renal cell carcinoma
Mountain View (El Camino Hospital) - Oncocytoma
Orange (UCI Medical Center) - Oncocytoma
Palo Alto - Oncocytoma
San Diego (Naval Medical Center San Diego) - Conventional renal cell carcinoma, eosinophilic variant (6); Oncocytoma (5); Carcinoid (2)
San Diego (UCSD Medical Center) - Oncocytoma
San Francisco (San Francisco General Hospital) - Paraganglioma
Arkansas (University of Arkansas Medical Center) - Oncocytoma, kidney
Connecticut (West Hartford) - Oncocytoma
Florida (Munroe Regional Medical Center) - Oncocytoma
Illinois (Heartland Regional Medical Center) - Oncocytoma
Kansas (Coffeyville Regional Medical Center) - Oncocytoma
Kansas (Peterson Laboratory Services) - Carcinoid tumor
Kansas (Physicians Reference Laboratory) - Chromophobe renal cell carcinoma
Louisiana (LSUHSC Pathology) - Oncocytoma
Maryland (The John's Hopkin's Hospital) - Oncocytoma
Maryland (University of Maryland Medical Center) - Oncocytoma
Massachusetts (UMASS Memorial Medical Center) - Oncocytoma
Michigan (Henry Ford Hospital) - Oncocytoma
Missouri (Truman Medical Center) - Chromophobe renal cell carcinoma
New York (Stony Brook University Hospital) - Granular cell variant of renal cell carcinoma
New York (SUNY Downstate Medical Center) - Oncoblastic oncocytoma vs. oncocytic carcinod tumor
North Carolina (Winston-Salem) - Oncocytoma
North Carolina (Womack Army Medical Center) - Oncocytoma (4)
Ohio, Columbus - Epithelial neoplasm, kidney
Oklahoma (Oklahoma University Medical Center) - Oncocytoma
Pennsylvania (Conemaugh Memorial Medical Center) - Oncocytoma
Pennsylvania (Drexel University College of Medicine) - Oncocytoma
Pennsylvania (Wilkes-Barre General Hospital) - Chromophobe renal cell carcinoma
Puerto Rico (University of Puerto Rico) - Renal oncocytoma
South Dakota (LCM Pathologists, P.C.) - Oncocytoma
Texas, Lubbock - Renal cell carcinoma, oncocytic type
Texas (Scott & White Memorial Hospital) - Oncocytoma
Texas, Sugarland - Oncocytoma
West Virginia (Wetzel County Hospital) - Chromophobe renal cell carcinoma
Brazil (Laboratorio Anatomia Pathologica Ecitologia) - Oncocytoma, kidney
Canada (Pasqua Hospital) - Oncocytoma
Canada (Sherbrooke University Hospital) - Oncocytoma
China (Sir Run Run Shaw Hospital) - Oncocytoma
Ireland (Galway Residents) - Oncocytoma renal cell carcinoma
Japan (Asahi General Hospital) - Oncocytoma
Japan (Gunma University) - Oncocytoma
Japan (Hamamatsu University School of Medicine) - Oncocytoma
Qatar (Hamad Medical Corporation) - Renal oncocytoma
Saudi Arabia (King Fahad National Guard Hospital) - Oncocytoma
Spain (Povisa Hospital) - Oncocytoma
United Kingdom (Radcliffe Hospital) - Oncytoma, kidney

Case 8 - Diagnosis:

Oncocytoma, kidney
T-71000, M-82900

Case 8 - References:

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Case No. 9 - Accession No. 30538 May, 2007

Canoga Park - Multilocular renal cyst with clear cell renal cell carcinoma
Escondido - Multilocular clear cell renal cell carcinoma
Glendale - Multilocular cystic renal cell carcinoma
Loma Linda - Cystic renal cell carcinoma
Mountain View (El Camino Hospital) - Multicystic renal cell carcinoma
Orange (UCI Medical Center) - Multilocular cystic renal cell carcinoma
Palo Alto - Multilocular cystic renal cell carcinoma
San Diego (Naval Medical Center San Diego) - Multilocular cystic renal cell carcinoma
San Diego (UCSD Medical Center) - Multilocular renal cell carcinoma
San Francisco (San Francisco General Hospital) - Multiloculated cystic clear cell renal carcinoma
Arkansas (University of Arkansas Medical Center) - Clear cell carcinoma, multicystic, kidney
Connecticut (West Hartford) - Multilocular cystic renal cell carcinoma
Florida (Munroe Regional Medical Center) - Multicystic renal cell carcinoma
Illinois (Heartland Regional Medical Center) - Renal cell carcinoma, clear cell type (grade I), with cystic change
Kansas (Coffeyville Regional Medical Center) - Intra cystic renal (clear) cell carcinoma
Kansas (Peterson Laboratory Services) - Multilocular cystic renal cell carcinoma
Kansas (Physicians Reference Laboratory) - Cystic renal cell carcinoma
Louisiana (LSUHSC Pathology) - Cystic (clear cell) renal cell carcinoma
Maryland (The John's Hopkin's Hospital) - Multilocular cystic renal cell carcinoma
Maryland (University of Maryland Medical Center) - Multilocular cystic renal cell carcinoma of clear cell type (Fuhman II)
Massachusetts (UMASS Memorial Medical Center) - Multilocular cystic renal cell carcinoma, clear cell type
Michigan (Henry Ford Hospital) - Multiocular cystic renal cell carcinoma
Missouri (Truman Medical Center) - Clear cell renal cell carcinoma
New York (Stony Brook University Hospital) - Multilocular cystic renal cell carcinoma
New York (SUNY Downstate Medical Center) - Multilocular cystic renal cell carcinoma
North Carolina (Winston-Salem) - Multilocular cystic renal cell carcinoma
North Carolina (Womack Army Medical Center) - Cystic renal cell carcinoma (4)
Ohio, Columbus - Cystic renal cell carcinoma, kidney
Oklahoma (Oklahoma University Medical Center) - Multilocular cystic renal cell carcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Multilocular cystic renal cell carcinoma
Pennsylvania (Drexel University College of Medicine) - Renal cystic clear cell carcinoma
Pennsylvania (Wilkes-Barre General Hospital) - Cystic renal cell carcinoma, clear cell type F, Grade 2
Puerto Rico (University of Puerto Rico) - Multilocular cystic renal cell carcinoma
South Dakota (LCM Pathologists, P.C.) - Multilocular cystic renal cell carcinoma
Texas, Lubbock - Mesoblastic nephroma
Texas (Scott & White Memorial Hospital) - Cystic renal cell carcinoma
Texas, Sugarland - Multilocular cystic renal cell carcinoma
West Virginia (Wetzel County Hospital) - Multicystic renal cell carcinoma
Brazil (Laboratorio Anatomia Pathologica Ecitologia) - Renal cell carcinoma, clear cell type cystic multilocular
Canada (Pasqua Hospital) - Multilocular cystic renal cello carcinoma
Canada (Sherbrooke University Hospital) - Clear cell carcinoma (multicystic pattern)
China (Sir Run Run Shaw Hospital) - Clear cell renal cell carcinoma
Ireland (Galway Residents) - Renal cell carcinoma (multilocular cystic variant)
Japan (Asahi General Hospital) - Multilocular cystic renal cell carcinoma

Japan (Gunma University) - Cystic renal cell carcinoma
Japan (Hamamatsu University School of Medicine) - Papillary renal cell carcinoma
Qatar (Hamad Medical Corporation) - Renal cell carcinoma
Saudi Arabia (King Fahad National Guard Hospital) - Multilobular cystic renal cell carcinoma
Spain (Povisa Hospital) - Cystic renal cell carcinoma
United Kingdom (Radcliffe Hospital) - Cystic renal cell carcinoma, kidney

Case 9 - Diagnosis:

Multilocular renal cell carcinoma, clear cell type, kidney
T-71000, M-83123

Case 9 - References:

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Grignon DJ and Che M. Clear Cell Renal Cell Carcinoma. *Clin Lab Med* 2005; 25(2):305-316.
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Case No. 10 - Accession No. 30484 May, 2007

Canoga Park - Papillary renal cell carcinoma
Escondido - Collecting duct carcinoma
Glendale - Collecting duct carcinoma
Loma Linda - Papillary renal cell carcinoma
Mountain View (El Camino Hospital) - Collecting duct carcinoma
Orange (UCI Medical Center) - Collecting duct tumor
Palo Alto - Papillary renal cell carcinoma
San Diego (Naval Medical Center San Diego) - Collecting duct carcinoma
San Diego (UCSD Medical Center) - Papillary renal cell carcinoma
San Francisco (San Francisco General Hospital) - Papillary renal carcinoma
Connecticut (West Hartford) - Papillary renal cell carcinoma
Florida (Munroe Regional Medical Center) - Renal cell carcinoma, chromophil
Illinois (Heartland Regional Medical Center) - Collecting duct carcinoma
Kansas (Coffeyville Regional Medical Center) - Papillary renal cell carcinoma
Kansas (Peterson Laboratory Services) - Collecting duct renal cell carcinoma
Kansas (Physicians Reference Laboratory) - Papillary renal cell carcinoma
Louisiana (LSUHSC Pathology) - Papillary renal cell carcinoma
Maryland (The John's Hopkin's Hospital) - Collecting duct carcinoma vs. high-grade papillary renal cell carcinoma
Maryland (University of Maryland Medical Center) - High grade papillary renal cell carcinoma (vs. collecting duct carcinoma)
Massachusetts (UMASS Memorial Medical Center) - Collecting duct carcinoma
Michigan (Henry Ford Hospital) - Renal cell carcinoma, collecting duct type
Missouri (Truman Medical Center) - Renal cell carcinoma, papillary type
New York (Stony Brook University Hospital) - Papillary renal cell carcinoma, type II
New York (SUNY Downstate Medical Center) - Collecting duct carcinoma
North Carolina (Winston-Salem) - Papillary renal cell carcinoma
North Carolina (Womack Army Medical Center) - Collecting duct carcinoma (4)
Ohio, Columbus - Papillary carcinoma, kidney
Oklahoma (Oklahoma University Medical Center) - Papillary renal cell carcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Connecting duct carcinoma
Pennsylvania (Drexel University College of Medicine) - Renal papillary carcinoma
Pennsylvania (Wilkes-Barre General Hospital) - Papillary renal cell carcinoma, high-grade
Puerto Rico (University of Puerto Rico) - Collecting duct carcinoma
South Dakota (LCM Pathologists, P.C.) - Papillary renal cell carcinoma
Texas, Lubbock - Papillary renal cell carcinoma

Texas (Scott & White Memorial Hospital) - Medullary carcinoma
Texas, Sugarland - Papillary renal cell carcinoma, type 2
West Virginia (Wetzel County Hospital) - Papillary renal cell carcinoma
Brazil (Laboratorio Anatomia Pathologica Ecitologia) - Renal cell carcinoma, papillary type 2
Canada (Pasqua Hospital) - Papillary carcinoma, metastatic thyroid
Canada (Sherbrooke University Hospital) - Renal cell carcinoma, papillary variant, type 2
China (Sir Run Run Shaw Hospital) - Collecting duct carcinoma
Ireland (Galway Residents) - Collecting duct carcinoma
Japan (Asahi General Hospital) - Papillary renal cell carcinoma
Japan (Gunma University) - Collecting duct carcinoma
Japan (Hamamatsu University School of Medicine) - Bellini duct carcinoma
Qatar (Hamad Medical Corporation) - Collecting duct carcinoma
Saudi Arabia (King Fahad National Guard Hospital) - Papillary renal cell carcinoma
Spain (Povisa Hospital) - Collecting duct carcinoma
United Kingdom (Radcliffe Hospital) - Papillary renal cell carcinoma, type II

Case 10 – Diagnosis:

Papillary renal cell carcinoma, kidney
T-71000, M-83123

Case 10 - References:

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