



CALIFORNIA
TUMOR TISSUE REGISTRY

“Prostate & GU”

Minutes – Subscription B

May, 2006



SUGGESTED READING (General Topics from Recent Literature):

Analysis Of Air Contrast Barium Enema, Computed Tomographic Colonography, And Colonoscopy: Prospective Comparison. Rockey DC, Paulson E, Niedzwiecki D, et al. *The Lancet*, 2005 Jan 22; 365:305-311.

Analysis Of Gene Expression In Egr-1 Transfected Human Fibrosarcoma Cells. Liu Y-G, Gano J, Huang R, et al. *J Surg Oncol*, 2002; 80:190-6.

Epigenetic Differences Between Wilms' Tumours In White And East Asian Children. Fukuzawa R, Breslow NE, Morison IM, et al. *The Lancet*, 2004 Feb 7; 363:446-51.

Molecular Breast Imaging: A New Technique Using Technetium Tc 99m Scintimammography To Detect Small Tumors Of The Breast. Rhodes DJ, O'Connor MK, Phillips SW, et al. *Mayo Clin Proc*, 2005 Jan; 80(1):24-30.

Estrogen Carcinogenesis In Breast Cancer. Yager JD, Davidson NE. *N Engl J Med*, 2006 Jan 19; 354(3):270-280.

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FILE DIAGNOSES

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

CTTR Subscription B

Case 1:

Cryptorchid testis with Leydig cell hyperplasia
T-78000, M-26200, M-72000

Case 2:

Angiomyolipoma, kidney
T-71000, M-8860/0

Case 3:

Adenomatoid tumor, scrotum
T-79400, M-9054/0

Case 4:

Mesoblastic nephroma, kidney
T-71000, M-8960/1

Case 5:

Diffuse B-cell lymphoma, peri-renal
T-71160, M-9590/3

Case 6:

Classic seminoma, testis
T-78000, M-9061/3

Case 7:

Diffuse lymphoma (NOS) vs. anaplastic seminoma, testis
T-78000, M-9590/3, M-9062/3

Case 8:

Inflammatory MFH, prostate
T-77100, M-8830/3

Case 9:

Leiomyosarcoma, kidney
T-71000, M-8890/3

Case 10:

High-grade sarcomatoid transitional cell carcinoma, bladder
T-74000, M-8120/3

Escondido - Adrenocortical rest
Glendale - Adrenal cortical heterotopia
Palo Alto Pathology - Ectopic adrenal tissue
San Francisco (San Francisco General Hospital) - Sertoli-Leydig cell tumor, cryptorchid testis
San Francisco (UCSF Trainees) - Leydig cell hyperplasia c/w cryptorchidism
Arkansas (University of Arkansas Medical Center) - Adrenal rest, inguinal hernia sac
Florida (Munroe Regional Medical Center) - Undescended atrophic testicle
Florida (Winter Haven Hospital) - Leydig cell tumor (1); Leydig cell nodule (1)
Georgia, Decatur - Leydig cell hyperplasia
Illinois (Heartland Regional Medical Center) - Extratesticular Leydig cell nodule
Kansas (Coffeyville Regional Medical Center) - Leydig cell tumor
Kentucky (University of Louisville Hospital) - Leydig cell tumor
Maryland (Johns Hopkins Medical Institute) - Benign Sertoli-Leydig lesion -- ? ectopic; ? undescended testis
Maryland (University of Maryland Medical Center Residents) - 1) Undescended testis with Leydig cell tumor; 2) Leydig cell tumor
Massachusetts (University of Massachusetts) - Ectopic adrenal gland
Michigan (Henry Ford Hospital Residents) - Leydig cell tumor
New York (Nassau University Medical Center) - Adrenal cell rest
New York (Stony Brook University Hospital Residents) - Leydig cell tumor
New York (SUNY Downstate Residents) - Adrenal rest; Ectopic leydig cells; Leydig cell tumor
New York (Westchester Medical Center) - Adrenal rest vs "vanishing testis"
North Carolina (Womack Army Medical Center) - Adrenal rests with persistent Wolffian remnants (5)
Ohio (Medical University of Ohio) - Leydig cell tumor
Pennsylvania (Conemaugh Memorial Medical Center)) - Adrenal cortical rest
Pennsylvania (Hahnemann University Hospital) - Leydig cell adenoma
Texas (Scott & White Hospital) - Adrenal cortical rest
Texas, Crystal Beach - Leydig cell hyperplasia, ectopic
Texas, Lubbock - Adrenal rest
West Virginia (Wetzel County Hospital) - Adrenal cortical rest
Australia (Sullivan Nicolaides Pathology) - Adrenal cortical rest
Canada (Pasqua Hospital) - Ectopic leydig cells
China (Sir Run Run Shaw Hospital) - Leydig cell tumor
Japan (Gunma University Hospital) - Leydig cell tumor
Japan (Hamamatsu University School of Medicine) - Retention testis with Leydig cell hyperplasia
Japan, Chiba - Epithelioid schwannoma
Oman (Khoula Hospital) - Leydig cell tumour
Qatar (Hamad Medical Corporation) - Adrenal rest
Spain (Povisa) - Leydig cell tumour
The Netherlands, Amstelveen - Leydig cell hyperplasia

Case 1 - Diagnosis:**Cryptorchid testis with Leydig cell hyperplasia****T-78000, M-26200, M-72000****Case 1 - References:**

- Gotoh M, Miyake K, Mitsuya H: Leydig Cell Hyperplasia In Cryptorchid Patients: Quantitative Evaluation Of Leydig Cells In Undescended And Contralateral Scrotal Testis. *Urol Res*, 1984; 12(3):159-64.
 Regadera J, Codesal J, Paniagua R, et al: Immunohistochemical And Quantitative Study Of Interstitial And Intratubular Leydig Cells In Normal Men, Cryptorchidism And Klinefelter's Syndrome. *J Pathol*, 1991 Aug; 164(4):299-306.
 Nistal M, Paniagua R, Reyadere J, et al: A Quantitative Morphology Study Of Human Leydig Cells From Birth To Adulthood. *Cell Tissue Res*, 1986; 246(2):229-36.
 Nistal M, Paniagua R, Queizan A: Histologic Lesions In Undescended Ectopic Obstructed Testis. *Fertil Steril*, 1985 Mar; 43(3):455-62.
 Batata MA, Whitmore WF Jr, Hilaris BS, et al: Cancer Of The Undescended Or Maldescended Testis. *AJR Am J Roentgenol*, 1976 Feb; 126(2):302-12.

Escondido - Malignant angiomyolipoma
Glendale - Angiomyolipoma
Palo Alto Pathology - Angiomyolipoma
San Francisco (San Francisco General Hospital) - Angiomyolipoma
San Francisco (UCSF Trainees) - Angiomyolipoma
Arkansas (University of Arkansas Medical Center) - Epithelioid angiomyolipoma, kidney
Florida (Munroe Regional Medical Center) - Angiomyolipoma
Florida (Winter Haven Hospital) - Angiomyolipoma (2)
Georgia, Decatur - Epithelioid angiomyolipoma
Illinois (Heartland Regional Medical Center) - Angiomyolipoma
Kansas (Coffeyville Regional Medical Center) - Angiomyolipoma, kidney
Kentucky (University of Louisville Hospital) - Angiomyolipoma
Maryland (Johns Hopkins Medical Institute) - Angiomyolipoma
Maryland (University of Maryland Medical Center Residents) - Angiomyolipoma
Massachusetts (University of Massachusetts) - Angiomyolipoma
Michigan (Henry Ford Hospital Residents) - Angiomyolipoma
New York (Nassau University Medical Center) - Angiomyolipoma
New York (Stony Brook University Hospital Residents) - Angiomyolipoma, epithelioid variant
New York (SUNY Downstate Residents) - Atypical epithelioid angiomyolipoma
New York (Westchester Medical Center) - Angiomyolipoma
North Carolina (Womack Army Medical Center) - Angiomyolipoma (5)
Ohio (Medical University of Ohio) - Angiomyolipoma
Pennsylvania (Conemaugh Memorial Medical Center)) - Angiomyolipoma
Pennsylvania (Hahnemann University Hospital) - Angiomyolipoma
Texas (Scott & White Hospital) - Angiomyolipoma
Texas, Crystal Beach - Angiomyolipoma
Texas, Lubbock - Angiomyolipoma
West Virginia (Wetzel County Hospital) - Epithelioid angiomyolipoma
Australia (Sullivan Nicolaides Pathology) - Angiomyolipoma
Canada (Pasqua Hospital) - Angiomyolipoma
China (Sir Run Run Shaw Hospital) - Angiomyolipoma
Japan (Gunma University Hospital) - Angiomyolipoma
Japan (Hamamatsu University School of Medicine) - Angiomyolipoma
Japan, Chiba - Angiomyolipoma
Oman (Khoulia Hospital) - Epithelioid angiomyolipoma
Qatar (Hamad Medical Corporation) - Angiomyolipoma
Spain (Povisa) - Angiomyolipoma
The Netherlands, Amstelveen - Angiomyolipoma

Case 2 - Diagnosis:

Angiomyolipoma, kidney
T-71000, M-8860/0

Case 2 - References:

Eble JN, Amin MB, Young RH: Epithelioid Angiomyolipoma Of The Kidney: A Report Of 5 Cases With Prominent And Diagnostically Confusing Epithelioid Smooth Muscle Component. *Am J Surg Pathol*, 1997 Oct; 21(10):1123-30.
 Ferry JA, Malt RA, Young RH: Renal Angiomyolipoma With Sarcomatous Transformation And Pulmonary Metastasis. *Am J Surg Pathol*, 1991 Nov; 15(11):1083-8.
 Weeks DA, Malott RL, Amesen M, et al: Hepatic Angiomyolipoma With Striated Granules And Positivity With Melanoma-Specific Antibody (HMB-45). A Report Of Two Cases. *Ultrastruct Pathol*, 1991 Jul-Oct; 15(4-5):563-71.
 Silpananta P, Michel RP, Oliver JA: Simultaneous Occurrence Of Angiomyolipoma And Renal Cell Carcinoma. Clinical And Pathologic (Including Ultrastructural) Features. *Urology*, 1984 Feb; 23(2):200-4.
 Kutcher R, Rosenblatt R, Mitsudo SM, et al: Renal Angiomyolipoma With Sonographic Demonstration Of Extension Into The Inferior Vena Cava. *Radiology*, 1982 Jun; 143(3):755-6.

Escondido - Adenomatoid tumor
Glendale - Adenomatoid tumor
Palo Alto Pathology - Adenomatoid tumor
San Francisco (San Francisco General Hospital) - Dedifferentiated liposarcoma
San Francisco (UCSF Trainees) - Adenomatoid tumor
Arkansas (University of Arkansas Medical Center) - Adenomatoid tumor, scrotum
Florida (Munroe Regional Medical Center) - Adenomatoid tumor
Florida (Winter Haven Hospital) - Adenomatoid tumor (2)
Georgia, Decatur - Adenomatoid tumor
Illinois (Heartland Regional Medical Center) - Adenomatoid tumor (benign mesothelioma)
Kansas (Coffeyville Regional Medical Center) - Leiomyoma, scrotum
Kentucky (University of Louisville Hospital) - Adenomatoid tumor
Maryland (Johns Hopkins Medical Institute) - Adenomatoid tumor
Maryland (University of Maryland Medical Center Residents) - Adenomatoid tumor
Massachusetts (University of Massachusetts) - Adenomatoid tumor
Michigan (Henry Ford Hospital Residents) - Adenomatoid tumor
New York (Nassau University Medical Center) - Adenomatoid tumor
New York (Stony Brook University Hospital Residents) - Adenomatoid tumor
New York (SUNY Downstate Residents) - Sclerosing lipogranuloma; Metastatic adenocarcinoma; Adenomatoid tumor;
 Angiomyolipoma; Leiomyoma
New York (Westchester Medical Center) - Adenomatoid tumor
North Carolina (Womack Army Medical Center) - Adenomatoid tumor (5)
Ohio (Medical University of Ohio) - Adenomatoid tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Sclerosing liposarcoma
Pennsylvania (Hahnemann University Hospital) - Adenomatoid tumor
Texas (Scott & White Hospital) - Adenomatoid tumor
Texas, Crystal Beach - Adenomatoid tumor
Texas, Lubbock - Adenomatoid tumor
West Virginia (Wetzel County Hospital) - Nodular and diffuse fibrous proliferation (NDFP)
Australia (Sullivan Nicolaides Pathology) - Adenomatoid tumour
Canada (Pasqua Hospital) - Adenomatoid tumor
China (Sir Run Run Shaw Hospital) - Adenoid tumor
Japan (Gunma University Hospital) - Adenomatoid tumor
Japan (Hamamatsu University School of Medicine) - Adenomatoid tumor
Japan, Chiba - Adenomatoid tumor
Oman (Khoulia Hospital) - Adenomatoid tumour
Qatar (Hamad Medical Corporation) - Adenomatoid tumor
Spain (Povisa) - Adenomatoid tumour
The Netherlands, Amstelveen - ? adenomatoid tumor ?

CASE 3 - Diagnosis:

Adenomatoid tumor, scrotum
T-79400, M-9054/0

Case 3 - References:

Barry P, Chan KG, Hsu J, Quek ML: Adenomatoid Tumor Of The Tunica Albuginea. *Int J Urol*, 2005 May; 12(5):516-8.
 Perez-Campos A, Jimenez-Heffernan JA, Perez F, Vicandi B: Cytologic Features Of Paratesticular Adenomatoid Tumor. *Acta Cytol*, 2004 May-Jun; 48(3):457-8.
 Williams SB, Han M, Jones R, Andrawis R: Adenomatoid Tumor Of The Testis. *Urology*, 2004 Apr; 63(4):779-81.
 Skinnider BF, Young RH: Infarcted Adenomatoid Tumor: A Report Of Five Cases Of A Facet Of A Benign Neoplasm That May Cause Diagnostic Difficulty. *Am J Surg Pathol*, 2004 Jan; 28(1):77-83.
 Hes O, Perez-Montiel DM, Alvarado Cabrero I, et al: Thread-Like Bridging Strands: A Morphologic Feature Present In All Adenomatoid Tumors. *Ann Diagn Pathol*, 2003 Oct; 7(5):273-7.
 Delahunt B, Eble JN, Nacey JN, Thornton A: Immunohistochemical Evidence For Mesothelial Origin Of Paratesticular Adenomatoid Tumour. *Histopathology*, 2001 May; 38(5):479.

Escondido - Mesoblastic nephroma
Glendale - Congenital mesoblastic nephroma
Palo Alto Pathology - Mesoblastic nephroma (leiomyomatous hamartoma)
San Francisco (San Francisco General Hospital) - Sarcomatoid Wilms' tumor
San Francisco (UCSF Trainees) - Mesoblastic nephroma
Arkansas (University of Arkansas Medical Center) - Congenital mesoblastic nephroma, classic type, kidney
Florida (Munroe Regional Medical Center) - Mesoblastic nephroma
Florida (Winter Haven Hospital) - Mesoblastic nephroma (2)
Georgia, Decatur - Congenital mesoblastic nephroma
Illinois (Heartland Regional Medical Center) - Congenital mesoblastic nephroma, classic type
Kansas (Coffeyville Regional Medical Center) - Leiomyosarcoma, low-grade, kidney
Kentucky (University of Louisville Hospital) - Mesoblastic nephroma
Maryland (Johns Hopkins Medical Institute) - Mesoblastic nephroma, classic type
Maryland (University of Maryland Medical Center Residents) - Mesoblastic nephroma
Massachusetts (University of Massachusetts) - Mesoblastic nephroma
Michigan (Henry Ford Hospital Residents) - Mesoblastic nephroma
New York (Nassau University Medical Center) - Mesoblastic nephroma
New York (Stony Brook University Hospital Residents) - Congenital mesoblastic nephroma
New York (SUNY Downstate Residents) - Congenital mesoblastic nephroma
New York (Westchester Medical Center) - Congenital mesoblastic nephroma
North Carolina (Womack Army Medical Center) - Mesoblastic nephroma (5)
Ohio (Medical University of Ohio) - Mesoblastic nephroma
Pennsylvania (Conemaugh Memorial Medical Center) - Mesoblastic nephroma
Pennsylvania (Hahnemann University Hospital) - Congenital mesoblastic nephroma
Texas (Scott & White Hospital) - Congenital mesoblastic nephroma
Texas, Crystal Beach - Mesoblastic nephroma
Texas, Lubbock - Wilms' tumor
West Virginia (Wetzel County Hospital) - Mesoblastic nephroma, classic type
Australia (Sullivan Nicolaides Pathology) - Mesoblastic nephroma
Canada (Pasqua Hospital) - Mesoblastic nephroma
China (Sir Run Run Shaw Hospital) - Congenital mesoblastic nephroma
Japan (Gunma University Hospital) - Congenital mesoblastic nephroma
Japan (Hamamatsu University School of Medicine) - Congenital mesonephric nephroma, fibrous type
Japan, Chiba - Leiomyosarcoma
Oman (Khoulia Hospital) - Mesoblastic nephroma
Qatar (Hamad Medical Corporation) - Mesoblastic nephroma
Spain (Povisa) - Mesoblastic nephroma
The Netherlands, Amstelveen - Congenital mesoblastic nephroma

Case 4 - Diagnosis:**Mesoblastic nephroma, kidney****T-71000, M-8960/1****Case 4 - References:**

- Schenk JP, Schrader C, Furtwangler R, et al: MRI-Morphology And Staging Of Congenital Mesoblastic Nephroma: Evaluation Of A Collection Of 20 Patients. *Rofo*, 2005 Oct; 177(10):1373-9.
- Khashu M, Osioyich H, Sargent MA: Congenital Mesoblastic Nephroma Presenting With Neonatal Hypertension. *J Perinatol*, 2005 Jun; 25(6):433-5.
- Schenk JP, Engelmann D, Zieger B, et al: Radiologic Differentiation Of Rhabdoid Tumor From Wilms' Tumor And Mesoblastic Nephroma. *Urology*, 2005 Feb; 64(2):155-61.
- Sugimura J, Yang XJ, Tretiakova MS, et al: Gene Expression Profiling Of Mesoblastic Nephroma And Wilms' Tumors—Comparison And Clinical Implications. *Urology*, 2004 Aug; 64(2):362-8; discussion 368.
- Chen WY, Lin CN, Chao CS, et al: Prenatal Diagnosis Of Congenital Mesoblastic Nephroma In Mid-Second Trimester By Sonography And Magnetic Resonance Imaging. *Prenat Diagn*, 2003 Nov; 23(11):927-31.

Escondido - Lymphocyte predominant Hodgkin's disease
Glendale - Lymphoma
Palo Alto Pathology - Lymphoma
San Francisco (San Francisco General Hospital) - Lymphoma
San Francisco (UCSF Trainees) - CLL/SLL
Arkansas (University of Arkansas Medical Center) - Extranodal marginal zone B-cell lymphoma of MALT type, kidney
Florida (Munroe Regional Medical Center) - Small B-cell lymphoma
Florida (Winter Haven Hospital) - Leukemia/lymphoma (1); Lymphatic involvement by lymphoma/leukemia (1)
Georgia, Decatur - Classic lymphocytic leukemia/small lymphocytic lymphoma
Illinois (Heartland Regional Medical Center) - Lymphoproliferative disorder (requires additional studies; also microscopic intravascular malignant neoplasm (also requires studies)
Kansas (Coffeyville Regional Medical Center) - Malignant lymphoma, B-cell type
Kentucky (University of Louisville Hospital) - SLL/CLL
Maryland (Johns Hopkins Medical Institute) - Intravascular large B-cell lymphoma with co-existent CLL/SLL
Maryland (University of Maryland Medical Center Residents) - 1) CLL; 2) Reactive changes
Massachusetts (University of Massachusetts) - Chronic lymphocytic lymphoma/small lymphocytic leukemia (CLL/SLL)
Michigan (Henry Ford Hospital Residents) - Chronic lymphocytic leukemia/Prolymphocytic leukemia
New York (Nassau University Medical Center) - Small lymphocytic lymphoma
New York (Stony Brook University Hospital Residents) - B-CLL/SLL
New York (SUNY Downstate Residents) - Large B-cell lymphoma arising in SLL (Richter's)
New York (Westchester Medical Center) - Intravascular lymphoma with SLL/CLL
North Carolina (Womack Army Medical Center) - Small lymphocytic lymphoma (5)
Ohio (Medical University of Ohio) - Chronic lymphocytic leukemia/Small lymphocytic lymphoma
Pennsylvania (Conemaugh Memorial Medical Center) - Small lymphocytic lymphoma/chronic lymphocytic leukemia
Pennsylvania (Hahnemann University Hospital) - SLL/CLL
Texas (Scott & White Hospital) - Large cell lymphoma
Texas, Crystal Beach - Castleman's disease, plasmacytic
Texas, Lubbock - Small lymphocytic lymphoma
West Virginia (Wetzel County Hospital) - B-cell chronic LL/SLL with plasmacytic differentiation
Australia (Sullivan Nicolaides Pathology) - CLL/Small cell lymphoma
Canada (Pasqua Hospital) - Castleman's disease
China (Sir Run Run Shaw Hospital) - Malignant lymphoma
Japan (Gunma University Hospital) - Marginal zone B-cell lymphoma
Japan (Hamamatsu University School of Medicine) - Small lymphocytic lymphoma
Japan, Chiba - Nodular lymphocyte predominant Hodgkin's lymphoma
Oman (Khoula Hospital) - Non-Hodgkin's lymphoma
Qatar (Hamad Medical Corporation) - Small lymphocytic lymphoma
Spain (Povisa) - LLC (B-cell chronic lymphocytic leukemia/small lymphocytic lymphoma)
The Netherlands, Amstelveen - B-cell non-Hodgkin lymphoma (collision tumor ??) (follicular lymphoma + (CLL ??)

Case 5 - Diagnosis:

Diffuse B-cell lymphoma, peri-renal
T-71160, M-9590/3

Outside consult: Bellflower Southern California Permanente Medical Group: Diffuse large B-cell lymphoma with areas of follicular lymphoma, Grade III, clinically right renal mass.

Case 5 - References:

- Harris NL, Jaffe ES, Stein H, et al: A Revised European American Classification Of Lymphoid Neoplasms: A Proposal From The International Lymphoma Study Group. *Blood*, 1994 Sep 1; 84(5):1361-92.
 Tsang WY, Chan JK: Spectrum Of Morphologic Changes In Lymph Nodes Attributed To Fine Needle Aspiration. *Hum Pathol*, 1992 May; 23(5):562-5.
 Ng CS, Chan JK, Lo ST, Poon YF: Immunophenotypic Analysis Of Non-Hodgkin's Lymphomas In Chinese. A Study Of 75 Cases In Hong Kong. *Pathology*, 1986 Oct; 18(4):419-25.
 No Authors Listed: Non-Hodgkin's Lymphoma Pathologic Classification Project. National Cancer Institute Sponsored Study of Classifications Of Non-Hodgkin's Lymphomas: Summary And Description Of A Working Formulation For Clinical Usage. *Cancer*, 1982 May 15; 49(10):2112-35.

Escondido - Seminoma
Glendale - Seminoma
Palo Alto Pathology - Seminoma
San Francisco (San Francisco General Hospital) - Seminoma
San Francisco (UCSF Trainees) - Seminoma
Arkansas (University of Arkansas Medical Center) - Seminoma, testis
Florida (Munroe Regional Medical Center) - Seminoma
Florida (Winter Haven Hospital) - Seminoma (2)
Georgia, Decatur - Seminoma
Illinois (Heartland Regional Medical Center) - Seminoma, classic type
Kansas (Coffeyville Regional Medical Center) - Seminoma, testis
Kentucky (University of Louisville Hospital) - Seminoma
Maryland (Johns Hopkins Medical Institute) - Seminoma
Maryland (University of Maryland Medical Center Residents) - Seminoma, classic
Massachusetts (University of Massachusetts) - Seminoma
Michigan (Henry Ford Hospital Residents) - Seminoma
New York (Nassau University Medical Center) - Seminoma
New York (Stony Brook University Hospital Residents) - Seminoma
New York (SUNY Downstate Residents) - Classical seminoma
New York (Westchester Medical Center) - Seminoma
North Carolina (Womack Army Medical Center) - Seminoma (5)
Ohio (Medical University of Ohio) - Seminoma
Pennsylvania (Conemaugh Memorial Medical Center)) - Seminoma
Pennsylvania (Hahnemann University Hospital) - Seminoma
Texas (Scott & White Hospital) - Seminoma
Texas, Crystal Beach - Seminoma, possibly spermatocytic
Texas, Lubbock - Seminoma
West Virginia (Wetzel County Hospital) - Seminoma
Australia (Sullivan Nicolaides Pathology) - Seminoma
Canada (Pasqua Hospital) - Seminoma
China (Sir Run Run Shaw Hospital) - Seminoma
Japan (Gunma University Hospital) - Seminoma
Japan (Hamamatsu University School of Medicine) - Seminoma
Japan, Chiba - Seminoma
Oman (Khoulia Hospital) - Seminoma
Qatar (Hamad Medical Corporation) - Seminoma
Spain (Povisa) - Seminoma
The Netherlands, Amstelveen - Seminoma, testis

Case 6 - Diagnosis:

Classic seminoma, testis

T-78000, M-9061/3

Case 6 - References:

- Rago V, Romeo F, Aquila S, et al: Cytochrome P450 Aromatase Expression In Human Seminoma. *Reprod Biol Endocrinol*, 2005 Dec 22;3:72.
- Kelty P, Frazier H, O'Connell K, Ghosh BC: Germ Cell Testis Cancer. 15-Year Review. *J Surg Oncol*, 1996 May; 62(1):30-3.
- Czaja JT, Ulbright TM: Evidence For The Transformation OF Seminoma To Yolk Sac Tumor, With Histogenetic Considerations. *Am J Clin Pathol*, 1992 Apr; 97(4):463-5.
- Von Hochstetter AR, Hedinger CE: The Differential Diagnosis Of Testicular Germ Cell Tumors In Theory And Practice: A Critical Analysis Of Two Major Systems Of Classification And Review Of 389 Cases. *Virchows Arch A Pathol Anat Histol*, 1982 Aug; 396(3):247-77.
- Javadpour N: Management Of Seminoma Based On Tumor Markers. *Urol Clin North Am*, 1980 Oct; 7(3):773-81.

Escondido - Large B-cell lymphoma
Glendale - Lymphoma
Palo Alto Pathology - Diffuse large B-cell lymphoma
San Francisco (San Francisco General Hospital) - High-grade lymphoma
San Francisco (UCSF Trainees) - Large cell lymphoma
Arkansas (University of Arkansas Medical Center) - Diffuse large cell lymphoma, testis
Florida (Munroe Regional Medical Center) - Embryonal cell carcinoma
Florida (Winter Haven Hospital) - Lymphoma (1); Lymphoma vs granulocytic sarcoma (1)
Georgia, Decatur - Diffuse large cell lymphoma
Illinois (Heartland Regional Medical Center) - Malignant lymphoma, diffuse, large cell type
Kansas (Coffeyville Regional Medical Center) - Sertoli cell tumor, testis
Kentucky (University of Louisville Hospital) - DLBCL
Maryland (Johns Hopkins Medical Institute) - Diffuse large B-cell lymphoma
Maryland (University of Maryland Medical Center Residents) - Sarcoma
Massachusetts (University of Massachusetts) - Anaplastic spermatocytic seminoma
Michigan (Henry Ford Hospital Residents) - Diffuse large B-cell lymphoma vs. Burkitt's lymphoma
New York (Nassau University Medical Center) - Diffuse large cell lymphoma, high-grade
New York (Stony Brook University Hospital Residents) - Diffuse large cell lymphoma
New York (SUNY Downstate Residents) - Diffuse large B-cell lymphoma, Burkitt's lymphoma, Atypical Burkitt's lymphoma
New York (Westchester Medical Center) - Lymphoma, Burkitt-like
North Carolina (Womack Army Medical Center) - Lymphoma (5)
Ohio (Medical University of Ohio) - Large cell lymphoma
Pennsylvania (Conemaugh Memorial Medical Center) - Diffuse large cell lymphoma
Pennsylvania (Hahnemann University Hospital) - B-cell lymphoma
Texas (Scott & White Hospital) - Large cell lymphoma
Texas, Crystal Beach - Sex cord stromal tumor, possibly granulosa cell anaplastic
Texas, Lubbock - Large cell lymphoma
West Virginia (Wetzel County Hospital) - Large cell lymphoma/chloroma (requires immunostains)
Australia (Sullivan Nicolaides Pathology) - Haemopoietic malignancy (Granulocytic sarcoma)
Canada (Pasqua Hospital) - Lymphoma
China (Sir Run Run Shaw Hospital) - Malignant sex cord stromal tumor
Japan (Gunma University Hospital) - Poorly-differentiated granulosa cell tumor
Japan (Hamamatsu University School of Medicine) - Sex cord/gonadal stromal tumor, incompletely differentiated
Japan, Chiba - Malignant lymphoma consistent with diffuse large B-cell lymphoma
Oman (Khoulia Hospital) - Non-Hodgkin's lymphoma, large cell type
Qatar (Hamad Medical Corporation) - Non-Hodgkin's lymphoma, diffuse large cell
Spain (Povisa) - Embryonal carcinoma/lymphoma
The Netherlands, Amstelveen - Diffuse large B-cell lymphoma

Case 7 - Diagnosis:

Diffuse lymphoma (NOS) vs anaplastic seminoma
T-78000, M-9590/3, M-9062/3

Director's Note: Note the presence of intratubular germ cell neoplasia. (drc)

Case 7 - References:

Stein M, Dale J, Kuten A, Moshkowitz B: Anaplastic Seminoma And Spermatocytic Seminoma—A Retrospective Analysis. *S Afr J Surg*, 1993 Dec; 31(4):144-6.
 Stein M, Kuten A, Bos Y, Luria M: Anaplastic Seminoma Of The Testis. *Harefuah*, 1992 Jan 1; 122(1):4-6.
 Bobba VS, Mittal BB, Hoover SV, Kepka A: Classical And Anaplastic Seminoma: Difference In Survival. *Radiology*, 1988 Jun; 167(3):849-52.
 Cockburn AG, Vugrin D, Batata M, et al: Poorly-Differentiated (Anaplastic) Seminoma Of The Testis. *Cancer*, 1984 May 1; 53(9):1991-4.
 Janssen M, Johnston WH: Anaplastic Seminoma Of The Testis: Ultrastructural Analysis Of Three Cases. *Cancer*, 1978 Feb; 41(2):538-44.

Escondido - Malignant fibrous histiocytoma
Glendale - Stromal sarcoma
Palo Alto Pathology - Nodular histiocytic prostatitis
San Francisco (San Francisco General Hospital) - Malakoplakia
San Francisco (UCSF Trainees) - Malakoplakia
Arkansas (University of Arkansas Medical Center) - Prostatitis, probably CMV-related
Florida (Munroe Regional Medical Center) - Non-specific granulomatous prostatitis
Florida (Winter Haven Hospital) - Prostatitis (2)
Georgia, Decatur - Xanthogranulomatous prostatitis
Illinois (Heartland Regional Medical Center) - Inflammatory pseudotumor
Kansas (Coffeyville Regional Medical Center) - Malignant fibrous histiocytoma with acute inflammation
Kentucky (University of Louisville Hospital) - Nodular histiocytic prostatitis vs inflammatory MFH
Maryland (Johns Hopkins Medical Institute) - Xanthogranulomatous prostatitis vs malakoplakia
Maryland (University of Maryland Medical Center Residents) - 1) Non-specific granulomatous prostatitis; 2) Inflammatory pseudotumor
Massachusetts (University of Massachusetts) - Malakoplakia
Michigan (Henry Ford Hospital Residents) - Malakoplakia
New York (Nassau University Medical Center) - Spermatic granuloma
New York (Stony Brook University Hospital Residents) - Inflammatory MFH
New York (SUNY Downstate Residents) - Inflammatory MFH; Granulomatous prostatitis; Sperm granuloma; Inflammatory pseudotumor
New York (Westchester Medical Center) - Inflammatory pseudotumor, ? malakoplakia
North Carolina (Womack Army Medical Center) - Malakoplakia (5)
Ohio (Medical University of Ohio) - Nodular histiocytic prostatitis
Pennsylvania (Conemaugh Memorial Medical Center)) - Malignant fibrous histiocytoma, inflammatory type
Pennsylvania (Hahnemann University Hospital) - Non-specific granulomatous prostatitis
Texas (Scott & White Hospital) - Pleomorphic sarcoma
Texas, Crystal Beach - Sarcoma (angiosarc?)
Texas, Lubbock - Xanthomatous prostatitis
West Virginia (Wetzel County Hospital) - Non-specific granulomatous prostatitis
Australia (Sullivan Nicolaides Pathology) - Prostatic stromal sarcoma
Canada (Pasqua Hospital) - Granulomatous prostatitis
China (Sir Run Run Shaw Hospital) - Granulomatous prostatitis
Japan (Gunma University Hospital) - Malignant fibrous histiocytoma
Japan (Hamamatsu University School of Medicine) - Chronic prostatitis
Japan, Chiba - Non-specific granulomatous prostatitis
Oman (Khoula Hospital) - DD: Malakoplakia, Xanthogranulomatous reaction
Qatar (Hamad Medical Corporation) - Inflammatory pseudo-tumor
Spain (Povisa) - Non-specific granulomatous prostatitis/malakoplakia
The Netherlands, Amstelveen - ?? Inflammatory pseudosarcomatous lesion

Case 8 - Diagnosis:

Inflammatory MFH, prostate
T-77100, M-8830/3

Outside Consultations:

David Bostwick, M.D.: "High-grade sarcoma"
 Stanford University: "Inflammatory MFH"

Case 8 - References:

- Shen Z, Wang H, Chen S: Malignant Fibrous Histiocytoma Of The Prostate: One Case Report. *Zhonghua Nan Ke Xue*, 2004 Mar; 10(3):202-4.
- Kulmala RV, Seppanen JH, Vaajalahti PJ, Tammela TL: Malignant Fibrous Histiocytoma Of The Prostate. Case Report. *Scand J Urol Nephrol*, 1994 Dec; 28(4):429-31.
- Lema Grille J, Rodriguez Nunez H, Cimadevilla Garcia A, et al: Malignant Vesico-Prostatic Fibrous Histiocytoma. *Actas Urol Esp*, 2001 Oct; 25(9):664-7. Review.
- Miro AG, De Seta L, Lizza N, et al: Malignant Fibrous Histiocytoma After Radiation Therapy For Prostate Cancer: Case Report. *J Chemother*, 1997 Apr; 9(2):162.

Sexton WJ, Lance RE, Reyes AO, et al: Adult Prostate Sarcoma: The M.D. Anderson Cancer Center Experience. *J Urol*, 2001 Aug; 166(2):521-5.

Case No. 9 - Accession No. 29971

May, 2006

Escondido - Sarcomatoid renal cell carcinoma
Glendale - Sarcomatoid renal cell carcinoma
Palo Alto Pathology - Sarcomatoid renal cell carcinoma
San Francisco (San Francisco General Hospital) - Sarcomatoid renal cell carcinoma
San Francisco (UCSF Trainees) - Clear cell renal cell carcinoma with sarcomatoid features
Arkansas (University of Arkansas Medical Center) - Sarcomatoid renal cell carcinoma, kidney
Florida (Munroe Regional Medical Center) - Rhabdoid tumor
Florida (Winter Haven Hospital) - Renal cell carcinoma, sarcomatoid type (1); Sarcomatoid RCC (1)
Georgia, Decatur - Sarcomatoid renal cell carcinoma
Illinois (Heartland Regional Medical Center) - Sarcomatoid poorly-differentiated renal cell carcinoma
Kansas (Coffeyville Regional Medical Center) - Rhabdomyosarcoma, kidney
Kentucky (University of Louisville Hospital) - RCC, unclassified (sarcomatoid)
Maryland (Johns Hopkins Medical Institute) - Collecting duct carcinoma
Maryland (University of Maryland Medical Center Residents) - Renal cell carcinoma, sarcomatoid
Massachusetts (University of Massachusetts) - Sarcomatoid renal cell carcinoma with rhabdoid features
Michigan (Henry Ford Hospital Residents) - Sarcomatoid renal cell carcinoma
New York (Nassau University Medical Center) - Rhabdoid tumor
New York (Stony Brook University Hospital Residents) - Sarcomatoid renal cell carcinoma
New York (SUNY Downstate Residents) - Sarcomatoid renal cell carcinoma
New York (Westchester Medical Center) - Sarcomatoid renal cell carcinoma
North Carolina (Womack Army Medical Center) - Sarcomatoid renal cell carcinoma (5)
Ohio (Medical University of Ohio) - Sarcomatoid renal cell carcinoma vs pleomorphic sarcoma
Pennsylvania (Conemaugh Memorial Medical Center)) - Sarcomatoid renal cell carcinoma
Pennsylvania (Hahnemann University Hospital) - Sarcoma, NOS vs sarcomatoid renal cell carcinoma
Texas (Scott & White Hospital) - Sarcomatoid renal cell carcinoma
Texas, Crystal Beach - Sarcomatoid renal cell carcinoma
Texas, Lubbock - Sarcomatoid renal cell carcinoma
West Virginia (Wetzel County Hospital) - Leiomyosarcoma/sarcomatoid variant of RCC
Australia (Sullivan Nicolaides Pathology) - Sarcomatoid renal cell carcinoma
Canada (Pasqua Hospital) - Sarcomatoid carcinoma
China (Sir Run Run Shaw Hospital) - Sarcomatoid carcinoma
Japan (Gunma University Hospital) - Sarcomatoid renal cell carcinoma
Japan (Hamamatsu University School of Medicine) - Sarcomatoid carcinoma
Japan, Chiba - Sarcomatoid renal cell carcinoma
Oman (Khoula Hospital) - Sarcomatoid renal cell carcinoma
Qatar (Hamad Medical Corporation) - Sarcomatoid renal cell carcinoma
Spain (Povisa) - Sarcomatoid clear renal cell carcinoma
The Netherlands, Amstelveen - ?? Sarcomatoid renal cell carcinoma ?

Case 9 - Diagnosis:

**Leiomyosarcoma, kidney (see Director's note)
T-71000, M-8890/3**

Director's Note: The immunoprofile was inadvertently omitted in the case history. The tumor was negative for epithelial markers (pan-cytokeratin, CK7, CK20, EMA) and positive for SMA (strong), MSA (weak), and desmin. By light microscopy (without immunos), sarcomatoid RCC would top the differential. (drc)

Case 9 - References:

Deyrup AT, Montgomery E, Fisher C: Leiomyosarcoma Of The Kidney: A Clinicopathologic Study. *Am J Surg Pathol*, 2004 Feb; 28(2):178-82.
El Otmány A, Bouklata S, Chami I, et al: Primary Leiomyosarcoma Of The Kidney. A Case Report. *Prog Urol*, 1999 Apr; 9(2):310-2.

Ochiai K, Onitsuka H, Honda H, et al: Leiomyosarcoma Of The Kidney: CT And MR Appearance. *J Comput Assist Tomogr*, 1993 Jul-Aug; 17(4):656-8.
 Davis R, Vaccaro JA, Hodges GF, et al: Renal Leiomyosarcoma: Plea For Aggressive Therapy. *Urology*, 1992 Aug; 40(2):168-71.
 Srinivas V, Sogani PC, Hajdu SI, et al: Sarcomas Of The Kidney. *J Urol*, 1984 Jul; 132(1):13-6.

Case No. 10 - Accession No. 29284

May, 2006

Escondido - Lymphoepithelial carcinoma
Glendale - High-grade transitional cell carcinoma
Palo Alto Pathology - Urothelial cell carcinoma, high-grade
San Francisco (San Francisco General Hospital) - Carcinosarcoma
San Francisco (UCSF Trainees) - Lymphoepithelial carcinoma
Arkansas (University of Arkansas Medical Center) - Infiltrating urothelial carcinoma, high-grade, urinary bladder
Florida (Munroe Regional Medical Center) - Urothelial carcinoma
Florida (Winter Haven Hospital) - Lymphoepithelial carcinoma (2)
Georgia, Decatur - Transitional cell carcinoma, lymphoepithelioma-like
Illinois (Heartland Regional Medical Center) - Poorly-differentiated urothelial carcinoma
Kansas (Coffeyville Regional Medical Center) - Urothelial carcinoma, high-grade, urinary bladder
Kentucky (University of Louisville Hospital) - Lymphoepithelioma-like carcinoma
Maryland (Johns Hopkins Medical Institute) - Lymphoepithelioma-like carcinoma
Maryland (University of Maryland Medical Center Residents) - Urothelial carcinoma, high-grade
Massachusetts (University of Massachusetts) - Transitional cell carcinoma, high-grade
Michigan (Henry Ford Hospital Residents) - High-grade invasive urothelial carcinoma with sarcomatoid features
New York (Nassau University Medical Center) - Invasive poorly-differentiated urothelial carcinoma
New York (Stony Brook University Hospital Residents) - Sarcomatoid high-grade transitional cell carcinoma
New York (SUNY Downstate Residents) - High-grade urothelial carcinoma; Sarcomatoid carcinoma
New York (Westchester Medical Center) - Urothelial carcinoma, lymphoepithelial type
North Carolina (Womack Army Medical Center) - High-grade urothelial carcinoma (5)
Ohio (Medical University of Ohio) - High-grade urothelial carcinoma
Pennsylvania (Conemaugh Memorial Medical Center)) - Lymphoepithelioma-like carcinoma
Pennsylvania (Hahnemann University Hospital) - Invasive urothelial carcinoma, high-grade
Texas (Scott & White Hospital) - Invasive high-grade transitional cell carcinoma
Texas, Crystal Beach - Urothelial carcinoma, anaplastic, invasive
Texas, Lubbock - Poorly-differentiated carcinoma
West Virginia (Wetzel County Hospital) - Transitional cell carcinoma, Grade IV/IV
Australia (Sullivan Nicolaides Pathology) - Poorly-differentiated urothelial carcinoma
Canada (Pasqua Hospital) - Urothelial carcinoma, lymphoepitheliomatous type
China (Sir Run Run Shaw Hospital) - Undifferentiated carcinoma
Japan (Gunma University Hospital) - High-grade urothelial carcinoma
Japan (Hamamatsu University School of Medicine) - Poorly-differentiated urothelial carcinoma + squamous cell carcinoma
Japan, Chiba - High-grade urothelial carcinoma
Oman (Khoula Hospital) - Poorly-differentiated carcinoma
Qatar (Hamad Medical Corporation) - High-grade transitional cell carcinoma
Spain (Povisa) - Infiltrating urothelial carcinoma
The Netherlands, Amstelveen - Lymphoepithelioma-like carcinoma

Case 10 - Diagnosis:

**High-grade sarcomatoid transitional cell carcinoma, bladder
 T-74000, M-8120/3**

Case 10 - References:

Kocher Ikegami H, Iwasaki H, Ohjimi Y, et al: Sarcomatoid Carcinoma Of The Urinary Bladder: A Clinicopathologic And Immunohistochemical Analysis Of 14 Patients. *Hum Pathol*, 2000 Mar; 31(3):332-40.
 Ross JS, del Rosario AD, Bui HX, et al: Expression Of The CD44 Cell Adhesion Molecule In Urinary Bladder Transitional Cell Carcinoma. *Mod Pathol*, 1996 Aug; 9(8):854-60.
 Torenbeek R, Blomjous CE, de Bruin PC, et al: Sarcomatoid Carcinoma Of The Urinary Bladder. Clinicopathologic Analysis Of 18 Cases With Immunohistochemical And Electron Microscopic Findings. *Am J Surg Pathol*, 1994 Mar; 18(3):241-9.
 Ro JY, Wishnow KI, Ayala AG, et al: Sarcomatoid Bladder Carcinoma: Clinicopathologic And Immunohistochemical Study On 44 Cases. *Surg Pathol*, 1988; 1:359-74.

