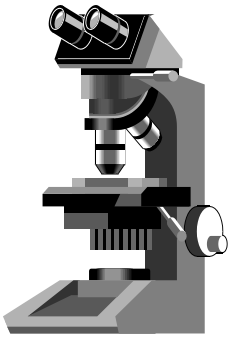
CALIFORNIA
TUMOR TISSUE REGISTRY

"GENITOURINARY PATHOLOGY"

Minutes – Subscription B

May, 2003



SUGGESTED READING (General Topics from Recent Literature):

Molecular Characterization of Soft Tissue Tumours: A Gene Expression Study. Nielsen TO, West RB, Linn SC, et al. *Lancet*, 2002 Apr 13; 359(9314):1301-7.

Cytologic Criteria for Well-Differentiated Adenocarcinoma of the Pancreas in Fine-Needle Aspiration Biopsy Specimens. Lin F, Staerkel G. *Cancer Cytopathol*, 2003; 99 (Feb 25):44-50.

Colorectal Cancer Screening and Surveillance: Clinical Guidelines and Rationale - Update Based on New Evidence. Winawer S, Fletcher R, et al. *Gastroenterology*, 2003; 124 (Feb):544-60.

Immunohistochemical Expression of CK20, p53, and Ki-67 as Objective Markers of Urothelial Dysplasia. Mallofre C, Castillo M, et al. *Mod Pathol*, 2003; 16:187-91.

Should the Diagnosis of Benign Prostatic Hyperplasia Be Made on Prostate Needle Biopsy? Viglione MP, Potter S, et al. *Hum Pathol*, 2002; 33(8):796-800.

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FILE DIAGNOSES

CTTR Subscription B May, 2003

Case 1:

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

Case 2:

Renal cell carcinoma (NOS), kidney
T-71000, M-83123

Case 3:

Renal cell carcinoma, collecting duct type ("Bellini duct carcinoma"), kidney
T-71000, M-83123

Case 4:

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

Case 5:

Adenomatoid tumor, paratesticular
T-78000, M-90540

Case 6:

Malignant mixed germ cell tumor, mostly embryonal carcinoma, with a minor seminoma component, testis
T-78000, M-81533

Case 7:

Seminoma, classic type, testis
T-78000, M-90613

Case 8:

Granulosa cell tumor, adult type, testis
T-78000, M-86203

Case 9:

Small cell carcinoma, prostate
T-77100, M-80413

Case 10:

Mucinous ("colloid") adenocarcinoma, prostate
T-77100, M-84803

Escondido - Clear cell renal cell carcinoma, grade II
Glendale (Glendale Pathology Association) - Renal cell carcinoma, clear cell type
Loma Linda - Renal cell carcinoma (clear cell type)
Orange (UCI Medical Center Residents) - Clear cell renal cell carcinoma, Grade 1, kidney
San Diego (Naval Medical Center) - Conventional (clear cell) renal cell carcinoma
Alabama, Birmingham - Renal cell carcinoma, clear cell type, Grade II/III
Arizona (Phoenix Memorial Hospital) - Renal cell carcinoma
Arkansas, Little Rock - Renal cell carcinoma, clear cell type, Grade 3
Colorado, Denver - Renal cell carcinoma
Florida (Winter Haven Hospital) - Renal cell carcinoma
Florida, Ocala - Renal cell carcinoma, clear cell
Georgia, Decatur - Renal cell carcinoma, clear cell (conventional) type
Illinois (Heartland Regional Medical Center) - Renal cell carcinoma, conventional (clear cell type), Fuhrman Grade 2
Illinois (Sarah Bush Lincoln Health Center) - Renal cell carcinoma, clear cell type
Indiana, Fort Wayne - Clear cell adenocarcinoma, right kidney
Kansas (Coffeyville Regional Medical Center) - Renal cell (clear cell) carcinoma
Kansas (Kansas University Medical Center) - Renal cell carcinoma, clear cell type, Fuhrman nuclear Grade 3
Louisiana (Louisiana State University Health Science Center) - Clear cell chromophobe carcinoma of kidney
Louisiana, Metairie - Renal cell carcinoma (clear cell type)
Maryland (National Naval Medical Center) - Renal cell carcinoma, clear cell type (9)
Maryland (University of Maryland Medical System) - Renal cell carcinoma, clear cell type
Michigan (Spectrum Health) - Renal cell carcinoma, clear cell
Michigan (St. Joseph Mercy Hospital) - Renal cell carcinoma, clear cell type
Michigan (St. Mary's Hospital) - Clear cell renal cell carcinoma
Nebraska (Good Samaritan Hospital) - Renal cell carcinoma, clear cell type
New York (Nassau University Medical Center) - Renal cell carcinoma, clear cell type
New York (Westchester Medical Center) - Renal cell carcinoma, clear cell type, Fuhrman Grade 2
Ohio (Medical College of Ohio) - Renal cell carcinoma, clear cell type
Ohio, Columbus - Renal cell carcinoma, clear cell type
Pennsylvania (Allegheny General Hospital) - Conventional (clear cell) renal cell carcinoma
Pennsylvania (Magee Women's Hospital) - Renal cell carcinoma, Grade 2
Pennsylvania (Memorial Medical Center) - Renal cell carcinoma, clear cell type
Pennsylvania, Pittsburgh - Renal cell carcinoma, conventional clear cell type
Rhode Island, Barrington - Renal cell carcinoma, clear cell type
Texas (Scott & White Hospital) - Renal cell carcinoma, clear cell type
Texas, Houston - Renal cell carcinoma, clear cell variant
Texas, Lubbock - Renal cell carcinoma, clear cell type
Texas, San Antonio - Clear cell renal cell carcinoma, Grade 3/4
Washington, D.C. - Clear cell carcinoma
Canada (CUSI, Site Fleurimont) - Clear cell renal cell carcinoma
Canada (University of Calgary, Foothills Hospital) - Renal cell carcinoma, conventional type
Japan (Hamamatsu University School of Medicine) - Renal clear cell carcinoma
Japan (Gunma University Hospital) - Clear cell adenocarcinoma
Japan (Saiseikai Shiga Hospital) - Renal cell carcinoma, clear cell type
Japan (Shimada City Hospital) - Renal cell carcinoma, clear cell type
Japan, Chiba - Renal cell carcinoma, clear cell type
Puerto Rico (University of Puerto Rico) - Renal cell carcinoma - clear cell type
Qatar, Doha - Renal cell carcinoma - Classic clear cell type
Spain (Povisa) - Clear renal cell carcinoma + adenoma

Case 1 - Diagnosis:

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

Case 1 - References:

Wilhelm M, Veltman JA, Olshen AB, et al: Array-Based Comparative Genomic Hybridization For the Differential Diagnosis of Renal Cell Cancer. *Cancer Res*, 2002 Feb 15; 62(4):957-60.

Moch H, Glasser T, Amin Mb, et al: Prognostic Utility of the Recently Recommended Histologic Classification and Revised TNM Staging System of Renal Cell Carcinoma: A Swiss Experience With 588 Tumors. *Cancer*, 2000 Aug 1; 89(3):604-14.

Kraus S, Abel PD, Nachtmann C, et al: MUC1 Mucin and Trefoli Factor-1 Protein Expression In Renal Cell Carcinoma: Correlation With Prognosis. *Hum Pathol*, 2002 Jan; 33(1):60-7.
Storkel S, Eble JN, Adlakha K, et al: Classification of Renal Cell Carcinoma: Work Group No. 1. Union Internationale Contre Le Cancer (UICC) and the American Joint Committee On Cancer (AJCC). *Cancer*, 1997 Sep 1; 80(5):987-9.

Case No. 2, Accession No. 28962 May, 2003

Escondido - Renal cell carcinoma, grade III
Glendale (Glendale Pathology Association) - Renal cell carcinoma
Loma Linda - Renal cell carcinoma (granular cell type)
Orange (UCI Medical Center Residents) - Renal cell carcinoma, kidney
San Diego (Naval Medical Center) - Grade IV renal cell carcinoma (conventional RCC)
Alabama, Birmingham - Renal cell carcinoma, granular cell type, Grade III/III
Arizona (Phoenix Memorial Hospital) - Chromophobe renal cell carcinoma, eosinophilic variant
Arkansas, Little Rock - Renal cell carcinoma, unclassified
Colorado, Denver - Renal cell carcinoma
Florida (Winter Haven Hospital) - Collecting duct carcinoma
Florida, Ocala - Renal cell carcinoma, chromophobe type
Georgia, Decatur - Renal cell carcinoma, unclassified
Illinois (Heartland Regional Medical Center) - Renal cell carcinoma, conventional type, Fuhrman Grade 4
Illinois (Sarah Bush Lincoln Health Center) - Renal cell carcinoma, high grade
Indiana, Fort Wayne - Chromophobe carcinoma, right kidney
Kansas (Coffeyville Regional Medical Center) - Renal cell (granular cell) carcinoma
Kansas (Kansas University Medical Center) - Renal cell carcinoma, NOS, nuclear grade IV/IV
Louisiana (Louisiana State University Health Science Center) - Chromophobe carcinoma, granular cell type
Louisiana, Metairie - Chromophobe renal cell carcinoma
Maryland (National Naval Medical Center) - Renal cell carcinoma, granular cell type (9)
Maryland (University of Maryland Medical System) - Chromophobe renal cell carcinoma
Michigan (Spectrum Health) - Renal cell carcinoma, chromophobe
Michigan (St. Joseph Mercy Hospital) - Renal cell carcinoma, chromophobe type
Michigan (St. Mary's Hospital) - Granular cell renal carcinoma
Nebraska (Good Samaritan Hospital) - Renal cell carcinoma, granular cell type
New York (Nassau University Medical Center) - Chromophobe renal cell carcinoma
New York (Westchester Medical Center) - Renal cell carcinoma, granular cell type
Ohio (Medical College of Ohio) - Renal cell carcinoma, chromophobe type
Ohio, Columbus - Renal cell carcinoma, granular cell type
Pennsylvania (Allegheny General Hospital) - Conventional renal cell carcinoma, granular cell type
Pennsylvania (Magee Women's Hospital) - Renal cell carcinoma, Grade 4
Pennsylvania (Memorial Medical Center) - Renal cell carcinoma, chromophobe cell type
Pennsylvania, Pittsburgh - RCC (Renal cell carcinoma), unclassified, with focal sarcomatoid differentiation
Rhode Island, Barrington RCC (Renal cell carcinoma), chromophobe type
Texas (Scott & White Hospital) - High grade carcinoma, favor renal cell carcinoma
Texas, Houston - Medullary carcinoma, kidney
Texas, Lubbock - Renal cell carcinoma, oncocytic type
Texas, San Antonio - Malignant epithelioid tumor, [*illegible*] vs. RCC (renal cell carcinoma), sarcomatoid
Washington, D.C. - Renal cell carcinoma, chromophobe type
Canada (CUSI, Site Fleurimont) - Chromophobe renal cell carcinoma
Canada (University of Calgary, Foothills Hospital) - Renal cell carcinoma, granular cell type (high grade)
Japan (Hamamatsu University School of Medicine) - Granular cell carcinoma
Japan (Gunma University Hospital) - Renal cell carcinoma, granular cell type
Japan (Saiseikai Shiga Hospital) - Renal cell carcinoma, granular cell type
Japan (Shimada City Hospital) - Renal cell carcinoma, granular cell type
Japan, Chiba - Renal cell carcinoma, chromophobe type
Puerto Rico (University of Puerto Rico) - Renal cell carcinoma - granular cell type
Qatar, Doha - Renal cell carcinoma - high grade
Spain (Povisa) - Granular renal cell carcinoma

Case 2 - Diagnosis:

Renal cell carcinoma (NOS), kidney
T-71000, M-83123

Director's Note: Focal sarcomatoid regions were also seen, but were present in only a few study sets. (drc)

Case 2 - References:
Fuhrman SA, Lasky LC, Limas C: Prognostic Significance of Morphologic Parameters In Renal Cell Carcinoma. *Am J Surg Pathol*, 1982 Oct; 6(7):655-63.
Barker AS, Cerhan JR, Lynch CF, et al: Gender, Alcohol Consumption, and Renal Cell Carcinoma. *Am J Epidemiol*, 2002 Mar 1; 155(5):455-62.
Krishnan B, Truong LD: Renal Epithelial Neoplasms: The Diagnostic Implications of Electron Microscopic Study in 55 Cases. *Human Pathol*, 2002 Jan; 33(1):68-79.
Lohse CM, Blute ML, Zincke H, et al: Comparison of Standardized and Non-Standardized Nuclear Grade of Renal Cell Carcinoma to Predict Outcome Among 2,042 patients. *Am J Clin Pathol*, 2002 Dec; 118(6):877-86.
Junker K, Thrum K, Schlichter A, et al: Clonal Origin of Multifocal Renal Cell Carcinoma As Determined by Microsatellite Analysis. *J Urol*, 2002 Dec; 168(6):2632-6.
Frank I, Blute ML, Cheville JC, et al: An Outcome Prediction Model For Patients With Clear Cell Renal Cell Carcinoma Treated With Radical Nephrectomy Based on Tumor Stage, Size, Grade and Necrosis: The SSIGN Score. *J Urol*, 2002 Dec; 168(6):2395-400.

Case No. 3, Accession No. 29341 May, 2003

Escondido - Transitional cell carcinoma, grade III, infiltrating renal parenchyma
Glendale (Glendale Pathology Association) - Collecting duct carcinoma
Loma Linda - Renal cell carcinoma (granular cell - high grade)
Orange (UCI Medical Center Residents) - Urothelial cell carcinoma, high grade, kidney
San Diego (Naval Medical Center) - High grade papillary urothelial carcinoma
Alabama, Birmingham - Invasive transitional cell carcinoma, Grade III/III
Arizona (Phoenix Memorial Hospital) - Squamous cell carcinoma, high grade
Arkansas, Little Rock - Transitional cell carcinoma, high grade, kidney
Colorado, Denver - Transitional cell carcinoma
Florida (Winter Haven Hospital) - Transitional cell carcinoma
Florida, Ocala - Transitional cell carcinoma, high grade
Georgia, Decatur - Collecting duct carcinoma, rule out transitional cell carcinoma
Illinois (Heartland Regional Medical Center) - Transitional cell carcinoma, Grade 3, with extensive renal invasion
Illinois (Sarah Bush Lincoln Health Center) - Transitional cell carcinoma, high grade
Indiana, Fort Wayne - Medullary carcinoma, right kidney
Kansas (Coffeyville Regional Medical Center) - Transitional cell (focal squamoid change) carcinoma, renal pelvis
Kansas (Kansas University Medical Center) - Transitional cell carcinoma, high grade
Louisiana (Louisiana State University Health Science Center) - Invasive high grade transitional cell carcinoma
Louisiana, Metairie - Transitional cell carcinoma
Maryland (National Naval Medical Center) - Transitional cell carcinoma, high grade (8); Combined transitional cell carcinoma, collecting duct carcinoma (1)
Maryland (University of Maryland Medical System) - Transitional cell carcinoma
Michigan (Spectrum Health) - Collecting duct carcinoma
Michigan (St. Joseph Mercy Hospital) - High grade transitional carcinoma
Michigan (St. Mary's Hospital) - Urothelial carcinoma of pelvis
Nebraska (Good Samaritan Hospital) - High grade urothelial carcinoma
New York (Nassau University Medical Center) - Poorly-differentiated transitional cell carcinoma
New York (Westchester Medical Center) - Renal pelvic transitional cell carcinoma
Ohio (Medical College of Ohio) - High grade transitional cell carcinoma
Ohio, Columbus - Transitional cell carcinoma
Pennsylvania (Allegheny General Hospital) - Transitional cell carcinoma (Grade III/III)
Pennsylvania (Magee Women's Hospital) - Transitional cell carcinoma, poorly-differentiated
Pennsylvania (Memorial Medical Center) - Renal cell carcinoma, anaplastic
Pennsylvania, Pittsburgh - Collecting duct carcinoma
Rhode Island, Barrington - Invasive urothelial carcinoma, high grade
Texas (Scott & White Hospital) - Poorly-differentiated transitional cell carcinoma
Texas, Houston - Urothelial carcinoma, kidney
Texas, Lubbock - High grade transitional cell carcinoma
Texas, San Antonio - Collecting duct carcinoma
Washington, D.C. - Transitional cell carcinoma, poorly-differentiated

Canada (CUSI, Site Fleurimont) - Carcinoma of the renal pelvis, invasive
Canada (University of Calgary, Foothills Hospital) - High grade invasive urothelial carcinoma
Japan (Hamamatsu University School of Medicine) - Transitional cell carcinoma, infiltrating
Japan (Gunma University Hospital) - Collecting duct carcinoma
Japan (Saiseikai Shiga Hospital) - Poorly-differentiated squamous cell carcinoma
Japan (Shimada City Hospital) -- Transitional cell carcinoma, high grade
Japan, Chiba - Collecting duct carcinoma of kidney
Puerto Rico (University of Puerto Rico) - Angiosarcoma
Qatar, Doha - High grade transitional cell carcinoma with trophoblastic differentiation
Spain (Povisa) - Transitional cell carcinoma with squamous differentiation

Case 3 - Diagnosis:

Renal cell carcinoma, collecting duct type ("Bellini duct carcinoma"), kidney
T-71000, M-83123

Case 3 - References:

Srigley JR, Eble JN: Collecting Duct Carcinoma of the Kidney. *Semin Diagn Pathol*, 1998 Feb; 15(1):54-67.
Bielsa O, Arango O, Corominas JM, et al: Collecting Duct Carcinoma of the Kidney. *Br J Urol*, 1994 Jul; 74(1):127-8.
Kennedy SM, Merino MJ, Linehan WM, et al: Collecting Duct Carcinoma of the Kidney. *Hum Pathol*, 1990 Apr; 21(4):449-56.
Chao D, Zisman A, Pantuck AJ, et al: Collecting Duct Renal Cell Carcinoma: Clinical Study of a Rare Tumor. *J Urol*, 2002 Jan; 167(1):71-4.

Case No. 4, Accession No. 27576 May, 2003

Escondido - Spindle cell renal cell carcinoma, grade II
Glendale (Glendale Pathology Association) - Renal cell carcinoma, sarcomatoid type
Loma Linda - Renal cell carcinoma (sarcomatoid type)
Orange (UCI Medical Center Residents) - Renal cell carcinoma, sarcomatoid type, kidney
San Diego (Naval Medical Center) - Sarcomatoid renal cell carcinoma (RCC, unclassified)
Alabama, Birmingham - Renal cell carcinoma, sarcomatoid variant
Arizona (Phoenix Memorial Hospital) - Renal cell carcinoma, sarcomatoid type
Arkansas, Little Rock - Sarcomatoid renal cell carcinoma
Colorado, Denver - Sarcomatoid renal cell carcinoma
Florida (Winter Haven Hospital) - Sarcomatoid renal cell carcinoma
Florida, Ocala - Sarcomatoid renal cell carcinoma
Georgia, Decatur - Sarcomatoid renal cell carcinoma
Illinois (Heartland Regional Medical Center) - Renal cell carcinoma, spindle cell (Sarcomatoid) type
Illinois (Sarah Bush Lincoln Health Center) - Transitional cell carcinoma, low grade
Indiana, Fort Wayne - Sarcomatoid renal cell carcinoma, right kidney
Kansas (Coffeyville Regional Medical Center) - Renal cell (sarcomatoid) carcinoma
Kansas (Kansas University Medical Center) - Sarcomatoid renal cell carcinoma, nuclear grade IV/IV
Louisiana (Louisiana State University Health Science Center) - Sarcomatoid renal cell carcinoma
Louisiana, Metairie - Sarcomatoid renal cell carcinoma
Maryland (National Naval Medical Center) - Sarcomatoid renal cell carcinoma (9)
Maryland (University of Maryland Medical System) - Spindle cell pseudosarcomatoid carcinoma
Michigan (Spectrum Health) - Renal cell carcinoma, sarcomatoid
Michigan (St. Joseph Mercy Hospital) - Sarcomatoid renal cell carcinoma
Michigan (St. Mary's Hospital) - Sarcomatoid carcinoma
Nebraska (Good Samaritan Hospital) - Renal cell carcinoma, sarcomatoid type
New York (Nassau University Medical Center) - Sarcomatoid renal cell carcinoma
New York (Westchester Medical Center) - Renal cell carcinoma, sarcomatoid type
Ohio (Medical College of Ohio) - Renal cell carcinoma with sarcomatoid features
Ohio, Columbus - Sarcomatoid carcinoma
Pennsylvania (Allegheny General Hospital) - Renal cell carcinoma, sarcomatoid type
Pennsylvania (Magee Women's Hospital) - Renal cell carcinoma with sarcomatoid features
Pennsylvania (Memorial Medical Center) - Renal cell carcinoma, papillary with sarcomatoid pattern
Pennsylvania, Pittsburgh - Sarcomatoid carcinoma
Rhode Island, Barrington - Collecting duct carcinoma
Texas (Scott & White Hospital) - Sarcomatoid renal cell carcinoma

Texas, Houston - Sarcomatoid carcinoma, kidney
Texas, Lubbock - Sarcomatoid renal cell carcinoma
Texas, San Antonio - Sarcomatoid RCC (renal cell carcinoma)
Washington, D.C. - Spindle cell carcinoma
Canada (CUSI, Site Fleurimont) - Sarcomatoid renal cell carcinoma
Canada (University of Calgary, Foothills Hospital) - Sarcomatoid renal cell carcinoma
Japan (Hamamatsu University School of Medicine) - TCC (transitional cell carcinoma), sarcomatoid
Japan (Gunma University Hospital) - Renal cell carcinoma, sarcomatoid
Japan (Saiseikai Shiga Hospital) - Sarcomatoid renal cell carcinoma
Japan (Shimada City Hospital) - Renal cell carcinoma, sarcomatoid type
Japan, Chiba - Sarcomatoid renal cell carcinoma
Puerto Rico (University of Puerto Rico) - Renal cell carcinoma - papillary type/sarcomatoid type
Qatar, Doha - Sarcomatoid renal cell carcinoma
Spain (Povisa) - Sarcomatoid renal cell carcinoma

Case 4 - Diagnosis:

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

Case 4 - References:

Dal Cin P, Sciot R, Van Poppel H, et al: Chromosome Changes in Sarcomatoid Renal Carcinomas Are Different From Those in Renal Cell Carcinomas. *Cancer Genet Cytogenet*, 2002 Apr 1; 134(1):38-40.

Cangiano T, Liao J, Naitoh J, et al: Sarcomatoid Renal Cell Carcinoma: Biologic Behavior, Prognosis, and Response to Combined Surgical Resection and Immunotherapy. *J Clin Oncol*, 1999 Feb; 17(2):523-8.

de Peralta-Venturina M, Moch H, Amin M, et al: Sarcomatoid Differentiation in Renal Cell Carcinoma: A Study of 101 Cases. *Am J Surg Pathol*, 2001 Mar; 25(3):275-84.

Mian BM, Bhadkamkar N, Slaton JW, et al: Prognostic Factors and Survival of Patients With Sarcomatoid Renal Cell Carcinoma. *J Urol*, 2002 Jan; 167(1):65-70.

Case No. 5, Accession No. 28063 May, 2003

Escondido - Adenomatoid tumor
Glendale (Glendale Pathology Association) - Adenomatoid tumor
Loma Linda - Testicle - Yolk sac tumor
Orange (UCI Medical Center Residents) - Adenomatoid tumor, testis
San Diego (Naval Medical Center) - Adenomatoid tumor
Alabama, Birmingham - Adenomatoid tumor
Arizona (Phoenix Memorial Hospital) - Adenomatoid tumor
Arkansas, Little Rock - Adenomatoid tumor, scrotum
Colorado, Denver - Paratesticular multicystic mass of Wolffian origin
Florida (Winter Haven Hospital) - Adenomatoid tumor
Florida, Ocala - Adenomatoid tumor
Georgia, Decatur - Adenomatoid tumor
Illinois (Heartland Regional Medical Center) - Adenomatoid tumor (benign mesothelioma)
Illinois (Sarah Bush Lincoln Health Center) - Adenomatoid tumor
Indiana, Fort Wayne - Adenomatoid tumor of left epididymis/testis
Kansas (Coffeyville Regional Medical Center) - Adenomatoid tumor
Kansas (Kansas University Medical Center) - Adenomatoid tumor
Louisiana (Louisiana State University Health Science Center) - Adenomatoid tumor
Louisiana, Metairie - Adenomatoid tumor
Maryland (National Naval Medical Center) - Adenomatoid tumor (9)
Maryland (University of Maryland Medical System) - Adenomatoid tumor
Michigan (Spectrum Health) - Adenomatoid tumor
Michigan (St. Joseph Mercy Hospital) - Adenomatoid tumor
Michigan (St. Mary's Hospital) - Adenomatoid tumor
Nebraska (Good Samaritan Hospital) - Adenomatoid tumor
New York (Nassau University Medical Center) - Adenomatoid tumor
New York (Westchester Medical Center) - Adenomatoid tumor
Ohio (Medical College of Ohio) - Adenomatoid tumor
Ohio, Columbus - Adenomatoid tumor

Pennsylvania (Allegheny General Hospital) - Adenomatoid tumor
Pennsylvania (Magee Women's Hospital) - Adenomatoid tumor
Pennsylvania (Memorial Medical Center) - Adenomatoid tumor
Pennsylvania, Pittsburgh - Adenomatoid tumor
Rhode Island, Barrington - Yolk sac tumor
Texas (Scott & White Hospital) - Adenomatoid tumor
Texas, Houston - Adenomatoid tumor, testis
Texas, Lubbock - Adenomatoid tumor
Texas, San Antonio - Adenomatoid tumor
Washington, D.C. - Adenomatoid tumor
Canada (CUSI, Site Fleurimont) - Adenomatoid tumor
Canada (University of Calgary, Foothills Hospital) - Adenomatoid tumor
Japan (Hamamatsu University School of Medicine) - Adenomatoid tumor
Japan (Gunma University Hospital) - Adenomatoid tumor
Japan (Saiseikai Shiga Hospital) - Adenomatoid tumor
Japan (Shimada City Hospital) - Adenomatoid tumor
Japan, Chiba - Adenomatoid tumor of scrotum
Puerto Rico (University of Puerto Rico) - Adenomatoid cystic tumor
Qatar, Doha - Adenomatoid tumor of epididymis (para-testicular)
Spain (Povisa) - Adenomatoid tumor

Case 5 - Diagnosis:

Adenomatoid tumor, paratesticular
T-78000, M-90540

Case 5 - References:

Oyama H, Ogawa M, Mikuriya H, et al: Adenomatoid Tumor of Testicular Tunica Albuginea: A Case Report. *Hinyokika Kiyo*, 2001 Sept; 47(9):661-3.

Isotalo PA, Yazdi HM, Perkins DG, Mai KT: Immunohistochemical Evidence For Mesothelial Origin of Paratesticular Adenomatoid Tumour. *Histopathology*, 2000 Nov; 37(5):476-7.

Rege JD, Amarapurkar AD, Phatak AM: Fine Needle Aspiration Cytology of Adenomatoid Tumor: A Case Report. *Acta Cytol*, 1999 May-Jun; 43(3):495-7.

Case No. 6, Accession No. 29003 May, 2003

Escondido - Embryonal carcinoma
Glendale (Glendale Pathology Association) - Seminoma
Loma Linda - Embryonal cell carcinoma, testicle
Orange (UCI Medical Center Residents) - Classical seminoma, testis
San Diego (Naval Medical Center) - Embryonal carcinoma
Alabama, Birmingham - Seminoma
Arizona (Phoenix Memorial Hospital) - Mixed germ cell tumor - seminoma, embryonal carcinoma, and yolk sac tumor
Arkansas, Little Rock - Embryonal carcinoma, testis
Colorado, Denver - Embryonal cell carcinoma with yolk sac features
Florida (Winter Haven Hospital) - Embryonal carcinoma
Florida, Ocala - Embryonal carcinoma
Georgia, Decatur - Seminoma with associated intra-tubular germ cell neoplasia
Illinois (Heartland Regional Medical Center) - Seminoma with areas of endodermal sinus tumor (yolk sac tumor)
Illinois (Sarah Bush Lincoln Health Center) - Embryonal carcinoma
Indiana, Fort Wayne - Seminoma with focal yolk sac neoplasm, testis (Intratubular germ cell neoplasia also present), mixed germ cell tumor
Kansas (Coffeyville Regional Medical Center) - Embryonal carcinoma
Kansas (Kansas University Medical Center) - Embryonal carcinoma
Louisiana (Louisiana State University Health Science Center) - Classic seminoma and embryonal carcinoma
Louisiana, Metairie - Embryonal carcinoma
Maryland (National Naval Medical Center) - Embryonal carcinoma (9)
Maryland (University of Maryland Medical System) - Pure seminoma in our slide, when combining with immunohistochemical studies, it suggests a mixed germ cell tumor
Michigan (Spectrum Health) - Embryonal carcinoma

Michigan (St. Joseph Mercy Hospital) - Mixed malignant germ cell tumor
Michigan (St. Mary's Hospital) - Embryonal carcinoma
Nebraska (Good Samaritan Hospital) - Embryonal carcinoma
New York (Nassau University Medical Center) - Embryonal carcinoma
New York (Westchester Medical Center) - Typical seminoma with embryonal carcinoma, solid type
Ohio (Medical College of Ohio) - Embryonal carcinoma
Ohio, Columbus - Mixed germ cell tumor
Pennsylvania (Allegheny General Hospital) - Embryonal carcinoma
Pennsylvania (Magee Women's Hospital) - Embryonal carcinoma
Pennsylvania (Memorial Medical Center) - Embryonal carcinoma
Pennsylvania, Pittsburgh - Embryonal carcinoma
Rhode Island, Barrington - Embryonal carcinoma
Texas (Scott & White Hospital) - Mixed germ cell tumor, predominantly embryonal and yolk sac components
Texas, Houston - Embryonal carcinoma, testis
Texas, Lubbock - Anaplastic seminoma
Texas, San Antonio - Mixed GCT (germ cell tumor)
Washington, D.C. - Germ cell tumor, mixed
Canada (CUSI, Site Fleurimont) - Embryonal carcinoma
Canada (University of Calgary, Foothills Hospital) - Non-seminomatous germ cell tumor, intra-tubular germ cell neoplasia
Japan (Hamamatsu University School of Medicine) - Embryonal carcinoma
Japan (Gunma University Hospital) - Embryonal carcinoma
Japan (Saiseikai Shiga Hospital) - Mixed germ cell tumor (embryonal carcinoma, seminoma, yolk sac tumor)
Japan (Shimada City Hospital) - Seminoma
Japan, Chiba - Embryonal carcinoma of testis
Puerto Rico (University of Puerto Rico) - Mixed germ cell tumor (embryonal and endodermal sinus tumor)
Qatar, Doha - Malignant mixed germ cell tumor of testis (embryonal carcinoma with focal yolk sac component)
Spain (Povisa) - Embryonal carcinoma

Case 6 - Diagnosis:

Malignant mixed germ cell tumor, mostly embryonal carcinoma, with a minor seminoma component, Testis

T-78000, M-81533

Outside Consultation: Jose Diaz, M.D., H. Lee Moffitt Cancer Center and Research Institute: Embryonal Carcinoma

Case 6 - References:

Leroy X, Augusto D, Leteurte E, Gosselin B: CD30 and CD117 (c-kit) Used In Combination Are Useful For Distinguishing Embryonal Carcinoma From Seminoma. *J Histochem Cytochem*, 2002 Feb; 50(2):283-5.

Blough RI, Heerema NA, Albers P, Foster RS: Fluorescense In-Situ Hibridization On Nuclei From Paraffin-Embedded Tissue In Low Stage Pure Embroyonal Carcinoma of the Testis. *J Urol*, 1998 Jan; 159(1):240-4.

Sweeney C: History of Testicular Cancer Chemotherapy Maximizing Efficiency, Minimizing Toxicity. *Semin Urol Oncol*, 2001 Aug; 19(3):170-9. Review.

Moul JW, McCarthy WF, Fernandez EB, Sesterhenn IA: Percentage of Embryonal Carcinoma And of Vascular Invasion Predicts Pathological Stage in Clinical Stage I Non-Seminomatous Testicular Cancer. *Cancer Res*, 1994 Jan 15; 54(2):362-4.

Rakheja D, Hoang MP, Sharma S, Albores-Saavedra J. Intratubular Embryonal Carcinoma. *Arch Pathol Lab Med*, 2002 Apr; 126(4):487-90.

Case No. 7, Accession No. 27907 May, 2003

Escondido - Seminoma
Glendale (Glendale Pathology Association) - Seminoma
Loma Linda - Seminoma (seminiferous cell type)
Orange (UCI Medical Center Residents) - Classical seminoma, testis
San Diego (Naval Medical Center) - Seminoma
Alabama, Birmingham - Seminoma
Arizona (Phoenix Memorial Hospital) - Anaplastic seminoma
Arkansas, Little Rock - Seminoma, testis
Colorado, Denver - Seminoma
Florida (Winter Haven Hospital) - Embryonal carcinoma

Florida, Ocala - Seminoma
Georgia, Decatur - Seminoma with associated intra-tubular germ cell neoplasia
Illinois (Heartland Regional Medical Center) - Seminoma with extensive necrosis
Illinois (Sarah Bush Lincoln Health Center) - Seminoma, classic type
Indiana, Fort Wayne - Spermatocytic seminoma, left testis
Kansas (Coffeyville Regional Medical Center) - Seminoma
Kansas (Kansas University Medical Center) - Seminoma, classic
Louisiana (Louisiana State University Health Science Center) - Classic seminoma
Louisiana, Metairie - Classic seminoma
Maryland (National Naval Medical Center) - Seminoma (9)
Maryland (University of Maryland Medical System) - Seminoma
Michigan (Spectrum Health) - Seminoma
Michigan (St. Joseph Mercy Hospital) - Seminoma
Michigan (St. Mary's Hospital) - Seminoma
Nebraska (Good Samaritan Hospital) - Seminoma
New York (Nassau University Medical Center) - Classical seminoma
New York (Westchester Medical Center) - Anaplastic seminoma with necrosis
Ohio (Medical College of Ohio) - Anaplastic seminoma
Ohio, Columbus - Seminoma
Pennsylvania (Allegheny General Hospital) - Seminoma, classic type
Pennsylvania (Magee Women's Hospital) - Seminoma
Pennsylvania (Memorial Medical Center) - Seminoma
Pennsylvania, Pittsburgh - Anaplastic seminoma
Rhode Island, Barrington - Placental site trophoblastic tumor
Texas (Scott & White Hospital) - Seminoma, classic type
Texas, Houston - Seminoma, testis
Texas, Lubbock - Seminoma
Texas, San Antonio - Seminoma
Washington, D.C. - Seminoma
Canada (CUSI, Site Fleurimont) - Seminoma
Canada (University of Calgary, Foothills Hospital) - Seminoma
Japan (Hamamatsu University School of Medicine) - Seminoma
Japan (Gunma University Hospital) - Seminoma
Japan (Saiseikai Shiga Hospital) - Seminoma
Japan (Shimada City Hospital) - Seminoma
Japan, Chiba - Seminoma of testis
Puerto Rico (University of Puerto Rico) - Anaplastic seminoma
Qatar, Doha - Seminoma
Spain (Povisa) - Seminoma

Case 7 - Diagnosis:
Seminoma, classic type, testis
T-78000, M-90613

Case 7 - References:

Livsey JE, Taylor B, Mobarek N, et al: Patterns of Relapse Following Radiotherapy For Stage 1 Seminoma of the Testis: Implications For Follow-Up. *Clin Oncol (R. Coll Radiol),* 2001; 13(4):296-300.

Florentine BD, Roscher AA, Garrett J, Warner NE: Necrotic Seminoma of the Testis: Establishing the Diagnosis With Masson Trichrome and Immunostains. *Arch Pathol Lab Med*, 2002 Feb; 126(2):205-6.

Nazeer T, Ro JY, Amato RJ, et al: Histologically Pure Seminoma With Elevated Alpha-Fetoprotein: A Clinicopathologic Study of Ten Cases. *Oncol Rep*, 1998 Nov-Dec; 5(6):1425-9.

Weissbach L, Bussar-Maatz R, Lohrs U, et al: Prognostic Factors In Seminomas With Special Respect to HCG: Results Of A Prospective Multicenter Study. Seminoma Study Group. *Eur Urol*, 1999 Dec; 36(6):601-8.

Vuky J, Tickoo SK, Sheinfeld J, et al: Salvage Chemotherapy For Patients With Advanced Pure Seminoma. *J Clin Oncol*, 2002 Jan 1; 20(1):297-301.

Ruther U, Dieckmann K, Bussar-Maatz R, Eisenberger F: Second Malignancies Following Pure Seminoma. *Oncology*, 2000; 8(1):75-82.

Escondido - Sex-cord stromal tumor, unclassified
Glendale (Glendale Pathology Association) - Adult granulosa cell tumor
Orange (UCI Medical Center Residents) - Granulosa cell tumor, testis
San Diego (Naval Medical Center) - Granulosa cell tumor
Alabama, Birmingham - Granular cell tumor
Arizona (Phoenix Memorial Hospital) - Leydig cell tumor
Arkansas, Little Rock - Sex-cord stromal tumor, unclassified, testis
Colorado, Denver - Sex cord tumor
Florida (Winter Haven Hospital) - Sertoli cell tumor
Florida, Ocala - Mesothelioma
Georgia, Decatur - Sertoli cell tumor, not otherwise specified
Illinois (Heartland Regional Medical Center) - Granulosa cell tumor
Illinois (Sarah Bush Lincoln Health Center) - Granulosa cell tumor
Indiana, Fort Wayne - [*illegible*] pericytoma, testis vs. gonadal stromal tumor (spindle fibrogenic type), (fibroma) of testis
Kansas (Coffeyville Regional Medical Center) - Carcinoid tumor
Kansas (Kansas University Medical Center) - Mixed or unclassified gonadal stromal tumor
Louisiana (Louisiana State University Health Science Center) - Granulosa cell tumor
Louisiana, Metairie - Granulosa cell tumor
Maryland (National Naval Medical Center) - Sertoli cell tumor (5); Granulosa cell tumor (3); Sex cord stromal tumor, NOS (1)
Maryland (University of Maryland Medical System) - Sex-cord stromal tumor, unclassified
Michigan (Spectrum Health) - Granular cell tumor
Michigan (St. Joseph Mercy Hospital) - Malignant gonadal stromal tumor
Michigan (St. Mary's Hospital) - Granulosa cell tumor
Nebraska (Good Samaritan Hospital) - Granulosa cell tumor
New York (Nassau University Medical Center) - Granulosa cell tumor
New York (Westchester Medical Center) - Sertoli cell tumor (? Granulosa cell tumor)
Ohio (Medical College of Ohio) - Sex cord-stromal tumor, favor Granulosa cell tumor
Ohio, Columbus - Sex-cord stromal tumor
Pennsylvania (Allegheny General Hospital) - Granulosa cell tumor, adult type
Pennsylvania (Magee Women's Hospital) - Sex-cord stromal tumor, unclassified
Pennsylvania (Memorial Medical Center) - Granulosa cell tumor
Pennsylvania, Pittsburgh - Sex cord stromal tumor (? Granulosa/Leydig cell tumor)
Rhode Island, Barrington - Gonadal stromal tumor
Texas (Scott & White Hospital) - Sex cord stromal tumor
Texas, Houston - Hemangiopericytoma, testis
Texas, Lubbock - Granulosa cell tumor
Texas, San Antonio - Synovial sarcoma
Washington, D.C. - Granulosa cell tumor
Canada (CUSI, Site Fleurimont) - Granulosa cell tumor, adult type
Canada (University of Calgary, Foothills Hospital) - Granulosa cell tumor, adult type
Japan (Hamamatsu University School of Medicine) - Leydig cell tumor
Japan (Gunma University Hospital) - Granulosa cell tumor, adult form
Japan (Saiseikai Shiga Hospital) - Sex cord stromal tumor, not otherwise specified
Japan (Shimada City Hospital) -- Fibroma
Japan, Chiba - Granulosa cell tumor, adult type, of testis
Puerto Rico (University of Puerto Rico) - Granulosa cell tumor
Qatar, Doha - Granulosa cell tumor
Spain (Povisa) - Granulosa cell tumor

Case 8 - Diagnosis:

Granulosa cell tumor, adult type, testis
T-78000, M-86203

Case 8 - References:

Wang BY, Rabinowitz DS, Granato RC Sr, Unger PD: Gonadal Tumor With Granulosa Cell Tumor Features in An Adult Testis. *Ann Diagn Pathol*, 2002 Feb; 6(1):56-60.

Al-Bozom IA, El-Faqih SR, Hassan SH, et al: Granulosa Cell Tumor of the Adult Type: A Case Report and Review of the Literature Of A Very Rare Testicular Tumor. *Arch Pathol Lab Med*, 2000 Oct; 124(10):1525-8.

Van den Berghe I, Dal Cin P, De Groef K, et al: Monosomy 22 and Trisomy 14 May Be Early Events in the Tumorigenesis of Adult Granulosa Cell Tumor. *Cancer Genet Cytogenet*, 1999 Jul 1; 112(1):46-8.

Ahmed E, Young RH, Scully RE: Adult Granulosa Cell Tumor of the Ovary With Foci of Hepatic Cell Differentiation: A Report of Four Cases and Comparison With Two Cases of Granulosa Cell Tumor With Leydig Cells. *Am J Surg Pathol*, 1999 Sep; 23(9):1089-93.

Fontanelli R, Stefanon B, Raspagliesi F, et al: Adult Granulosa Cell Tumor of the Ovary: A Clinicopathologic Study of 35 Cases. *Tumori* 1998 Jan-Feb; 84(1):60-4.

Case No. 9, Accession No. 19796 May, 2003

Escondido - Neuroendocrine carcinoma
Glendale (Glendale Pathology Association) - Small cell carcinoma
Loma Linda - Prostatic duct carcinoma
Orange (UCI Medical Center Residents) - Neuroendocrine carcinoma, prostate
San Diego (Naval Medical Center) - Small cell carcinoma
Alabama, Birmingham - Sarcomatoid carcinoma
Arizona (Phoenix Memorial Hospital) - Prostatic duct adenocarcinoma
Arkansas, Little Rock - Small cell carcinoma, prostate
Colorado, Denver - High grade transitional cell carcinoma
Florida (Winter Haven Hospital) - Poorly-differentiated adenocarcinoma
Florida, Ocala - Small cell carcinoma
Georgia, Decatur - Small cell (neuroendocrine) carcinoma of prostate
Illinois (Heartland Regional Medical Center) - Small cell anaplastic carcinoma
Illinois (Sarah Bush Lincoln Health Center) - Small cell carcinoma of prostate
Indiana, Fort Wayne - Small cell carcinoma, prostate (neuroendocrine carcinoma)
Kansas (Coffeyville Regional Medical Center) - Poorly-differentiated adenocarcinoma
Kansas (Kansas University Medical Center) - Neuroendocrine carcinoma (small cell carcinoma)
Louisiana (Louisiana State University Health Science Center) - Small cell neuroendocrine carcinoma
Louisiana, Metairie - Poorly-differentiated adenocarcinoma
Maryland (National Naval Medical Center) - Small cell carcinoma (9)
Maryland (University of Maryland Medical System) - Poorly-differentiated carcinoma
Michigan (Spectrum Health) - Undifferentiated carcinoma
Michigan (St. Joseph Mercy Hospital) - Small cell carcinoma
Michigan (St. Mary's Hospital) - Urothelial carcinoma
Nebraska (Good Samaritan Hospital) - Small cell undifferentiated (neuroendocrine) carcinoma
New York (Nassau University Medical Center) - Small cell carcinoma versus transitional cell carcinoma of the prostate
New York (Westchester Medical Center) - Small cell carcinoma of prostate
Ohio (Medical College of Ohio) - Small cell undifferentiated carcinoma
Ohio, Columbus - Carcinoma, possible neuroendocrine carcinoma
Pennsylvania (Allegheny General Hospital) - Small cell carcinoma of prostate
Pennsylvania (Magee Women's Hospital) - Poorly-differentiated carcinoma with small cell features
Pennsylvania (Memorial Medical Center) - Poorly differentiated adenocarcinoma, prostate
Pennsylvania, Pittsburgh - Poorly-differentiated carcinoma with focal basaloid and neuroendocrine features
Rhode Island, Barrington - Invasive ductal carcinoma
Texas (Scott & White Hospital) - Small cell carcinoma
Texas, Houston - Transitional cell carcinoma, prostate
Texas, Lubbock - Small cell carcinoma
Texas, San Antonio - Small cell neuroendocrine carcinoma
Washington, D.C. - Small cell carcinoma
Canada (CUSI, Site Fleurimont) - Adenocarcinoma, Grade V
Canada (University of Calgary, Foothills Hospital) - Adenocarcinoma with neuroendocrine features
Japan (Hamamatsu University School of Medicine) - Poorly-differentiated adenocarcinoma
Japan (Gunma University Hospital) - Small cell carcinoma, prostate
Japan (Saiseikai Shiga Hospital) - Adenocarcinoma with neuroendocrine differentiation
Japan (Shimada City Hospital) - Small cell carcinoma
Japan, Chiba - Small cell carcinoma of prostate gland
Puerto Rico (University of Puerto Rico) - Prostatic transitional cell (urothelial carcinoma versus extension from bladder or urethra)
Qatar, Doha - Small cell carcinoma
Spain (Povisa) - Small cell carcinoma

Case 9 - Diagnosis:

Small cell carcinoma, prostate
T-77100, M-80413

Case 9 - References:

Kim CJ, Kushima R, Okada Y, Seto A: Establishment and Characterization of a Prostatic Small-Cell Carcinoma Cell Line (PSK-1) Derived From A Patient With Klinefelter Syndrome. *Prostate*, 2000 Mar 1; 42(4):287-94.

Sano K, Miyai K, Yoshida S: Small Cell Carcinoma of the Prostate: A Case Report. *Int J Urol*, 1997 May; 4(3):321-3.

True LD, Buhler K, Quinn J, et al: A Neuroendocrine/Small Cell Prostate Carcinoma Xenograft-LuCaP 49. *Am J Pathol*, 2002 Aug; 161(2):705-15.

Di Saint'Agnese PA: Neuroendocrine Cells of the Prostate and Neuroendocrine Differentiation in Prostatic Carcinoma: A Review of Morphologic Aspects. *Urology*, 1998 May; 51(5A Suppl):121-4.

Mackey JR, Au HJ, Hugh J, Venner P: Genitourinary Small Cell Carcinoma: Determination of Clinical and Therapeutic Factors Associated With Survival. *J Urol*, 1998 May; 159(5):1624-9.

Case No. 10, Accession No. 19173 May, 2003

Escondido - Urachal adenocarcinoma
Glendale (Glendale Pathology Association) - Mucinous carcinoma
Loma Linda - Mucinous adenocarcinoma of prostate
Orange (UCI Medical Center Residents) - Mucinous adenocarcinoma
San Diego (Naval Medical Center) - Mucinous (colloid) carcinoma
Alabama, Birmingham - Mucinous prostatic adenocarcinoma (signet cell type)
Arizona (Phoenix Memorial Hospital) - Mucinous adenocarcinoma
Arkansas, Little Rock - Mucinous adenocarcinoma, prostate
Colorado, Denver - Mucinous carcinoma
Florida (Winter Haven Hospital) - Colloid carcinoma
Florida, Ocala - Cystadenoma
Georgia, Decatur - Mucinous carcinoma, rule out metastasis
Illinois (Heartland Regional Medical Center) - Mucinous adenocarcinoma with signet-ring cells
Illinois (Sarah Bush Lincoln Health Center) - Mucinous adenocarcinoma
Indiana, Fort Wayne - Mucinous adenocarcinoma, prostate
Kansas (Coffeyville Regional Medical Center) - Mucinous adenocarcinoma
Kansas (Kansas University Medical Center) - Mucinous adenocarcinoma
Louisiana (Louisiana State University Health Science Center) - Mucin-producing adenocarcinoma
Louisiana, Metairie - Mucinous adenocarcinoma
Maryland (National Naval Medical Center) - Mucinous adenocarcinoma (9)
Maryland (University of Maryland Medical System) - Mucinous adenocarcinoma
Michigan (Spectrum Health) - Mucinous carcinoma
Michigan (St. Joseph Mercy Hospital) - Mucinous (colloid) carcinoma
Michigan (St. Mary's Hospital) - Mucinous adenocarcinoma
Nebraska (Good Samaritan Hospital) - Mucinous adenocarcinoma
New York (Nassau University Medical Center) - Mucinous adenocarcinoma
New York (Westchester Medical Center) - Mucinous adenocarcinoma of prostate
Ohio (Medical College of Ohio) - Mucinous carcinoma
Ohio, Columbus - Mucinous adenocarcinoma
Pennsylvania (Allegheny General Hospital) - Mucinous carcinoma of prostate, with signet-ring cell features
Pennsylvania (Magee Women's Hospital) - Mucinous adenocarcinoma
Pennsylvania (Memorial Medical Center) - Mucinous adenocarcinoma, prostate
Pennsylvania, Pittsburgh - Mucinous adenocarcinoma
Rhode Island, Barrington - Mucinous adenocarcinoma
Texas (Scott & White Hospital) - Mucinous adenocarcinoma, colloid carcinoma
Texas, Houston - Mucinous carcinoma, prostate
Texas, Lubbock - Mucinous adenocarcinoma
Texas, San Antonio - Mucinous (colloid) carcinoma
Washington, D.C. - Mucinous adenocarcinoma
Canada (CUSI, Site Fleurimont) - Mucinous carcinoma
Canada (University of Calgary, Foothills Hospital) - Mucinous adenocarcinoma of prostate
Japan (Hamamatsu University School of Medicine) - Mucinous carcinoma
Japan (Gunma University Hospital) - Mucinous adenocarcinoma, prostate

Japan (Saiseikai Shiga Hospital) - Mucinous carcinoma
Japan (Shimada City Hospital) - Mucinous adenocarcinoma
Japan, Chiba - Mucinous carcinoma of prostate gland
Puerto Rico (University of Puerto Rico) - Prostate mucinous adenocarcinoma
Qatar, Doha - Mucinous adenocarcinoma of prostate
Spain (Povisa) - Mucinous adenocarcinoma

Case 10 - Diagnosis:

Mucinous ("colloid") adenocarcinoma, prostate
T-77100, M-84803

Case 10 - References:

Yumura Y, Hara Y, Ida T: Mucinous Adenocarcinoma of the Prostate: A Case Report. *Hinyokika Kiyo*, 2001 July; 47(7):505-8. Review.

Tran TT, Sengupta E, Yang XJ: Prostatic Foamy Gland Carcinoma With Aggressive Behavior: Clinicopathologic, Immunohistochemical and Ultrastructural Analysis. *Am J Surg Pathol*, 2000 May; 25(5):618-23.

Sousa-Escandon A, Arguelles-Pintos M, Picallo-Sanchez J, et al: Mucinous Carcinoma of the Prostate: Critical Review of Elbadowi's Criteria. *Actas Urol Esp*, 2000 Feb; 24(2):155-62. Review.

Saito S, Iwaki H: Mucin-Producing Carcinoma of the Prostate: Review of 88 Cases. *Urology*, 1999 July; 54(1):141-4.