



CALIFORNIA
TUMOR TISSUE REGISTRY

GENITOURINARY PATHOLOGY

Minutes – Subscription A

February, 2004



SUGGESTED READING (General Topics from Recent Literature):

- Kaufman HL. The Role of Poxviruses in Tumor Immunotherapy. *Surg* 2003; 134(5):731-737.
- Georginos SN, Renaut A, Goode AW, et al. The Immunophenotype and Activation Status of the Lymphocytic Infiltrate in Human Breast Cancers, the Role of the Major Histocompatibility Complex in Cell Mediated Immune Mechanisms, and their Association with Prognostic Indicators. *Surg* 2003; 134(5):827-834.
- Panasuk DB, Bauer TL, Davies AL, et al. Common Malignancies with Uncommon Sites of Presentation. Case 1. Anterior Mediastinal Rhabdomyosarcoma. *J Clin Oncol* 2003; 21(23):4455-4456.
- Russell SJ and Peng KW. Primer of Medical Genomics. PartX. Gene Therapy. *Mayo Clin Proc* 2003; 78(11):1370-1383.
- Donadio AC, Motzer RJ, Bajorin DF, et al. Chemotherapy for Teratoma with Malignant Transformation. *J Clin Oncol* 2003; 21(23):4285-4291.

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FILE DIAGNOSES

CTTR Subscription A

February 2004

Case 1:

Cystic hamartoma of renal pelvis
T-72000, M-75500

Case 2:

Oncocytoma, kidney
T-71000, M-82900

Case 3:

Wilms' tumor, favorable histology, kidney
T-71000, M-89603

Case 4:

Renal medullary carcinoma, kidney
T-71000, M-83123

Case 5:

Renal cell carcinoma, conventional clear cell and sarcomatoid, kidney
T-71000, M-83123

Case 6:

Chromophobe renal cell carcinoma, kidney
T-71000, M-82703

Case 7:

Recurrent high grade prostatic adenocarcinoma, prostate
T-77100, M-81403

Case 8:

Classic seminoma, testis
T-78000, M-90613

Case 9:

Diffuse large B-cell lymphoma, testis
T-78000, M-95903

Case 10:

Choriocarcinoma, testis
T-78000, M-91003

Alameda (Alameda County Medical Center) - Cystic nephroma
Arcadia (Garfield Medical Center) - Cystic nephroma (multilocular cyst)
Bakersfield - Cystic nephroma
Baldwin Park (Kaiser Permanente) - Benign multiloculated cyst (2); Polycystic disease (1)
Fontana (Kaiser Permanente) - Angiomyolipoma
Howard/Fremont - Adult polycystic disease
Irvine (UC Irvine) - End stage kidney with simple cyst
Laguna Beach (South Coast Medical Center) - Cystic nephroma
Loma Linda (Loma Linda Pathology Residents) - Benign cyst with renal atrophy
Long Beach (Lakewood Regional Medical Center) - Multilocular renal cyst (9)
Monterey (Community Hospital of Monterey Peninsula) - Angiomyolipoma
Mountain View (El Camino Pathology Group) - Multilocular cyst
Orange (Orange County Pathology Medical Group) - Angiomyolipoma
Sacramento (UC Davis Medical Center) - Angiomyolipoma with acquired polycystic disease
San Diego (Naval Medical Center) - Cystic nephroma
San Francisco (San Francisco General Hospital) - Cystic nephroma
Santa Barbara (Santa Barbara Cottage Hospital) - Cystic nephroma and angiomyolipoma
Santa Rosa (Santa Rosa Memorial Hospital) - Benign cystic nephroma (1); Benign cyst (1); Benign pyelocaliceal cyst (1);
Ventura - Adult polycystic kidney disease
Alaska (Alaska Native Medical Center) - Simple cyst, acquired
Arizona (Maryvale Medical Center) - Cystic nephroma (multilocular cyst) and angiomyolipoma
Arkansas (University of Arkansas Medical Center) - Angiomyolipoma
Colorado - Simple cyst
Colorado (Wheat Ridge) - Cystic nephroma
Florida (Baptist Hospital) - Renal multilocular cyst (1); Benign multilocular cyst (2); Hydronephrosis, chronic obstructive pyelonephritis (2)
Florida (Munroe Regional Medical Center) - Renal cysts
Florida (Tallahassee) - Hydronephrosis, chronic pyelonephritis
Florida (Winter Haven Hospital) - Simple cyst
Illinois (Burr Ridge) - Cystic nephroma
Illinois (Evanston Hospital) - Chronic obstructive pyelonephritis
Indiana (Ball Memorial Hospital) - Cystic nephroma
Indiana (Howard Community Hospital) - Hydronephrosis
Louisiana State University Medical Center - Pelvirenal cyst with effects of hydronephrosis (interstitial cystitis)
Maryland (National Naval Medical Center) - Cystic nephroma
Maryland (University of Maryland Medical Center) - Cystic nephroma
Massachusetts (Berkshire Medical Center) - Hydronephrosis
Massachusetts (New England Medical Center Residents) - Cystic nephroma vs. hydronephrosis
Michigan (Oakwood Hospital) - End-stage changes, possible ADRKD
Michigan (St. Joseph Mercy Hospital) - Angiomyolipoma
Minnesota (Fairview Southdale Hospital) - End stage multicystic kidney, benign
New York (Long Island Jewish Hospital) - Cystic hamartoma of renal pelvis
New York (Nassau University Medical Center) - Adult polycystic kidney disease
New York (New York) - Cystic lesion, favor mixed epithelial/stromal neoplasm
North Carolina (Mountain Area Pathology) - Simple cortical cyst (3)
Ohio (Medical College of Ohio) - Renal multilocular cyst (cystic nephroma)
Oklahoma (Tulsa) - Multilocular renal cyst (cystic nephroma)
Pennsylvania (Allegheny General Hospital) - Benign cyst
Pennsylvania (Centre Community Hospital) - Adult polycystic kidney disease
Pennsylvania (Conemaugh Memorial Medical Center) - Adult polycystic kidney
Pennsylvania (Lehigh Valley Hospital) - Benign cyst (1); Multicystic nephroma (1)

Pennsylvania (UPMC Health System) - Polycystic kidney
Pennsylvania (York Hospital) - Hydronephrosis (8)
Puerto Rico (University of Puerto Rico) - Cystic nephroma
Rhode Island (RI Hospital Residents) - Cystic nephroma
Texas (Lubbock) - Benign mesothelial inclusion cyst
Texas (ProPath Associates) - Hydronephrosis with obstructive atrophy (2)
Texas (San Antonio) - Benign renal cyst
Texas (Scott & White Memorial Hospital) - Cystic nephroma
West Virginia (Greenbrier Valley Medical Center) - Cyst and angiomyolipoma
Australia (North Queensland Pathology) - End stage kidney, simple cyst/hydronephrosis
Australia (Royal Prince Alfred Hospital) - End stage kidney with hydronephroma
Canada (Foothills Medical Center) - Benign simple cyst
Hong Kong (Hong Kong Baptist Hospital) - Cystic hamartoma
Italy (Naples) - Multilocular renal cyst
Jamaica (The University of the West Indies) - Autosomal dominant polycystic kidney disease
Netherlands (Amsterdam) - Angiomyolipoma
Qatar (Hamad Medical Corporation) - Simple renal cyst with pyelonephritis
Saudi Arabia - Simple renal cyst

Case 1 - Diagnosis:

Cystic hamartoma of renal pelvis
 T-72000, M-75500

Consultation: Craig Zuppan, M.D., renal pathologist at Loma Linda University Medical Center: “Consistent with cystic hamartoma of renal pelvis.”

Case 1 – References:

Mensch LS, Trainer TD and Plante MK. Cystic Hamartoma of the Renal Pelvis. A Rare Pathologic Entity. *Mod Pathol* 1999; 12(4):417-421.
 Pawade J, Soosay GN, Delprado W, et al. Cystic Hamartoma of the Renal Pelvis. *Am J Surg Pathol* 1993; 17(11):1169-1175.
 Eble JN and Bonsib SM. Extensively Cystic Renal Neoplasms. Cystic Nephroma, Cystic Partially Differentiated Nephroblastoma, Multilocular Cystic Renal Cell Carcinoma, and Cystic Hamartoma of Renal Pelvis. *Semin Diagn Pathol* 1998; 15(1):2-20.
 Hirota S, Hase M, Matsumoto S, et al. Cystic Hamartoma of the Renal Pelvis. Imaging Features. *Radiat Med* 2000; 18(2):139-142.

Case No. 2, Accession No. 29775

February 2004

Alameda (Alameda County Medical Center) - Oncocytic neoplasm (chromophil renal cell carcinoma vs. oncocytoma)
Arcadia (Garfield Medical Center) - Oncocytoma
Bakersfield - Renal oncocytoma
Baldwin Park (Kaiser Permanente) - Oncocytoma (3)
Fontana (Kaiser Permanente) - Oncocytoma
Howard/Fremont - Renal oncocytoma
Irvine (UC Irvine) - Oncocytoma
Laguna Beach (South Coast Medical Center) - Oncocytoma
Loma Linda (Loma Linda Pathology Residents) - Oncocytic renal tumor favor oncocytoma
Long Beach (Lakewood Regional Medical Center) - Oncocytoma (9)
Monterey (Community Hospital of Monterey Peninsula) - Oncocytoma
Mountain View (El Camino Pathology Group) - Oncocytoma
Orange (Orange County Pathology Medical Group) - Oncocytoma
Sacramento (UC Davis Medical Center) - Oncocytoma
San Diego (Naval Medical Center) - Oncocytoma
San Francisco (San Francisco General Hospital) - Oncocytoma
Santa Barbara (Santa Barbara Cottage Hospital) - Renal cell carcinoma, granular type

Santa Rosa (Santa Rosa Memorial Hospital) - Renal oncocytoma (2); Renal cell carcinoma (1)
Ventura - Oncocytoma
Alaska (Alaska Native Medical Center) - Oncocytoma
Arizona (Maryvale Medical Center) - Oncocytoma
Arkansas (University of Arkansas Medical Center) - Renal oncocytoma
Colorado - Oncocytoma
Colorado (Wheat Ridge) - Oncocytoma
Florida (Baptist Hospital) - Renal oncocytoma (5)
Florida (Munroe Regional Medical Center) - Oncocytoma
Florida (Tallahassee) - Oncocytoma
Florida (Winter Haven Hospital) - Oncocytoma
Illinois (Burr Ridge) - Oncocytoma
Illinois (Evanston Hospital) - Oncocytoma
Indiana (Ball Memorial Hospital) - Granular cell variant renal cell carcinoma
Indiana (Howard Community Hospital) - Oncocytoma
Louisiana State University Medical Center - Large renal oncocytoma
Maryland (National Naval Medical Center) - Oncocytoma
Maryland (University of Maryland Medical Center) - Oncocytoma
Massachusetts (Berkshire Medical Center) - Oncocytoma
Massachusetts (New England Medical Center Residents) - Oncocytoma
Michigan (Oakwood Hospital) - Oncocytoma
Michigan (St. Joseph Mercy Hospital) - Oncocytoma
Minnesota (Fairview Southdale Hospital) - Renal cell carcinoma, granular cell variant
New York (Long Island Jewish Hospital) - Oncocytoma
New York (Nassau University Medical Center) - Oncocytoma
New York (New York) - Renal oncocytoma
North Carolina (Mountain Area Pathology) - Oncocytoma
Ohio (Medical College of Ohio) - Oncocytoma
Oklahoma (Tulsa) - Renal oncocytoma
Pennsylvania (Allegheny General Hospital) - Oncocytoma
Pennsylvania (Centre Community Hospital) - Renal oncocytoma
Pennsylvania (Conemaugh Memorial Medical Center) - Oncocytoma
Pennsylvania (Lehigh Valley Hospital) - Oncocytoma (2)
Pennsylvania (UPMC Health System) - Renal oncocytoma
Pennsylvania (York Hospital) - Oncocytoma (8)
Puerto Rico (University of Puerto Rico) - Oncocytoma
Rhode Island (RI Hospital Residents) - Renal oncocytoma
Texas (Lubbock) - Oncocytic carcinoma
Texas (ProPath Associates) - Renal oncocytoma (2)
Texas (San Antonio) - Oncocytoma (less likely chromophobe CA)
Texas (Scott & White Memorial Hospital) - Oncocytoma
West Virginia (Greenbrier Valley Medical Center) - Oncocytoma
Australia (North Queensland Pathology) - Oncocytoma
Australia (Royal Prince Alfred Hospital) - Oncocytoma
Canada (Foothills Medical Center) - Oncocytoma
Hong Kong (Hong Kong Baptist Hospital) - Renal oncocytoma
Italy (Naples) - Oncocytoma
Netherlands (Amsterdam) - Oncocytoma of the kidney
Qatar (Hamad Medical Corporation) - Oncocytoma
Saudi Arabia - Oncocytoma

Case 2 - Diagnosis:

Oncocytoma, kidney

Case 2 - References:

- Psihramis KE, Dal Cin P, Dretler SP, et al. Further Evidence That Renal Oncocytoma Has Malignant Potential. *J Urol* 1988; 139(3):585-587.
- Alanen KA, Joensuu H, Lipasti JA and Nurmi MJ. Renal Oncocytoma. The Incidence of 18 Surgical and 17 Autopsy Cases. *Histopathol* 1984; 8(5):731-737.
- Kovacs G, Welter C, Wilkens L, et al. Renal Oncocytoma. A Phenotypic and Genotypic Entity of Renal Parenchymal Tumors. *Am J Pathol* 1989; 134(5):967-971.
- Rampino T, Gregorini M, Soccio G, et al. The Ron Proto-Oncogene Product is a Phenotypic Marker of Renal Oncocytoma. *Am J Surg Pathol* 2003; 27(6):779-785.
- Kuroda N, Guo L, Toi M, et al. Paxillin. Application of Immunohistochemistry to the Diagnosis of Chromophobe Renal Cell Carcinoma and Oncocytoma. *Appl Immunohistochem Mol Morphol* 2001; 9(4):315-318.

Case No. 3, Accession No. 29400

February 2004

Alameda (Alameda County Medical Center) - Nephroblastoma (Wilms' tumor)

Arcadia (Garfield Medical Center) - Nephroblastoma (Wilms' tumor)

Bakersfield - Wilms' tumor

Baldwin Park (Kaiser Permanente) - Wilms' tumor (3)

Fontana (Kaiser Permanente) - Wilms' tumor

Howard/Fremont - Wilms' tumor

Irvine (UC Irvine) - Wilms' tumor

Laguna Beach (South Coast Medical Center) - Wilms' tumor, favorable histology

Loma Linda (Loma Linda Pathology Residents) - Wilms' tumor (nephroblastoma)

Long Beach (Lakewood Regional Medical Center) - Wilms' tumor (9)

Monterey (Community Hospital of Monterey Peninsula) - Wilms' (triphasic)

Mountain View (El Camino Pathology Group) - Wilms' tumor

Orange (Orange County Pathology Medical Group) - Wilms' tumor

Sacramento (UC Davis Medical Center) - Wilms' tumor, favorable histology

San Diego (Naval Medical Center) - Wilms' tumor

San Francisco (San Francisco General Hospital) - Nephroblastoma, triphasic

Santa Barbara (Santa Barbara Cottage Hospital) - Wilms' tumor, favorable

Santa Rosa (Santa Rosa Memorial Hospital) - Wilms' tumor (3)

Ventura - Wilms' tumor

Alaska (Alaska Native Medical Center) - Wilms' tumor/nephroblastoma (triphasic pattern)

Arizona (Maryvale Medical Center) - Wilms' tumor

Arkansas (University of Arkansas Medical Center) - Nephroblastoma

Colorado - Wilms' tumor

Colorado (Wheat Ridge) - Wilms' tumor

Florida (Baptist Hospital) - Nephroblastoma (1); Wilms' tumor (4)

Florida (Munroe Regional Medical Center) - Wilms' tumor

Florida (Tallahassee) - Nephroblastoma

Florida (Winter Haven Hospital) - Wilms' tumor

Illinois (Burr Ridge) - Wilms' tumor

Illinois (Evanston Hospital) - Wilms' tumor

Indiana (Ball Memorial Hospital) - Wilms' tumor

Indiana (Howard Community Hospital) - Wilms' tumor

Louisiana State University Medical Center - Wilms' tumor

Maryland (National Naval Medical Center) - Wilms' tumor, triphasic

Maryland (University of Maryland Medical Center) - Wilms' tumor

Massachusetts (Berkshire Medical Center) - Nephroblastoma

Massachusetts (New England Medical Center Residents) - Wilms' tumor
Michigan (Oakwood Hospital) - Wilms' tumor
Michigan (St. Joseph Mercy Hospital) - Wilms'
Minnesota (Fairview Southdale Hospital) - Wilms' tumor
New York (Long Island Jewish Hospital) - Wilms' tumor
New York (Nassau University Medical Center) - Wilms' tumor
New York (New York) - Wilms' tumor
North Carolina (Mountain Area Pathology) - Wilms' tumor (3)
Ohio (Medical College of Ohio) - Wilms' tumor, serpentine pattern, favorable histology
Oklahoma (Tulsa) - Wilms' tumor
Pennsylvania (Allegheny General Hospital) - Wilms' tumor
Pennsylvania (Centre Community Hospital) - Wilms' tumor (nephroblastoma)
Pennsylvania (Conemaugh Memorial Medical Center) - Wilms' tumor
Pennsylvania (Lehigh Valley Hospital) - Wilms' tumor (1); Nephroblastoma (1)
Pennsylvania (UPMC Health System) - Wilms' tumor
Pennsylvania (York Hospital) - Nephroblastoma (8)
Puerto Rico (University of Puerto Rico) - Wilms' tumor, triphasic, favorable histology
Rhode Island (RI Hospital Residents) - Wilms' tumor (nephroblastoma)
Texas (Lubbock) - Wilms' tumor, favorable histology
Texas (Propath Associates) - Wilms' tumor (1); Nephroblastoma (Wilms' tumor), triphasic pattern (1)
Texas (San Antonio) - Nephroblastoma (Wilms' tumor)
Texas (Scott & White Memorial Hospital) - Wilms' tumor, favorable histology
West Virginia (Greenbrier Valley Medical Center) - Nephroblastoma
Australia (North Queensland Pathology) - Nephroblastoma
Australia (Royal Prince Alfred Hospital) - Triphasic Wilms' tumour
Canada (Foothills Medical Center) - Wilms' tumour
Hong Kong (Hong Kong Baptist Hospital) - Wilms' tumor
Italy (Naples) - Wilms' tumor, favorable histology
Jamaica (The University of the West Indies) - Nephroblastoma, (? Focally anaplastic ?), kidney
Netherlands (Amsterdam) - Wilms' tumor
Qatar (Hamad Medical Corporation) - Wilms' tumour (nephroblastoma)
Saudi Arabia - Wilms' tumor

Case 3 - Diagnosis:

Wilms' tumor, favorable histology, kidney
 T-71000, M-89603

Case 3 - References:

Breslow N, Beckwith JB, Ciol M, et al. Age Distribution of Wilms' Tumor. Report From the National Wilms' Tumor Study. *Cancer Res* 1988; 48(6):1653-1657.
 Beckwith JB and Palmer NF. Histopathology and Prognosis of Wilms' Tumors. Results From the National Wilms' Tumor Study. *Cancer* 1978; 41(5):1937-1948.
 Gessler M, Paustka A, Cavenee W, et al. Homozygous Deletion in Wilms Tumours of a Zinc-Finger Gene Identified by Chromosome Jumping. *Nature* 1990; 343(6260):774-778.
 Pritchard-Jones K, Kelsey A, Vujanic G, et al. Older Age is an Adverse Prognostic Factor in Stage I, Favorable Histology Wilms' Tumor Treated with Vincristine Monochemotherapy. A Study by the United Kingdom Children's Cancer Study Group, Wilms' Tumor Working Group. *J Clin Oncol* 2003; 21(17):3269-3275.
 D'Angelo MF, Kausik SJ, Sebo TJ, et al. p53 Immunopositivity in Histologically Favorable Wilms Tumor is Not Related to Stage at Presentation or to Biological Aggression. *J Urol* 2003; 169(5):1815-1817.

Case No. 4, Accession No. 29412

February 2004

Alameda (Alameda County Medical Center) - Sarcomatoid renal cell carcinoma

Arcadia (Garfield Medical Center) - Clear cell carcinoma
Bakersfield - Sarcomatoid renal cell carcinoma
Baldwin Park (Kaiser Permanente) - ? rhabdoid tumor ? collecting duct carcinoma (1); Collecting duct carcinoma (1); Clear cell carcinoma with sarcomatous differentiation (1)
Fontana (Kaiser Permanente) - Medullary carcinoma
Howard/Fremont - Renal cell carcinoma, high grade (focally sarcomatoid)
Irvine (UC Irvine) - Non-seminomatous germ cell tumor
Laguna Beach (South Coast Medical Center) - Poorly differentiated carcinoma
Loma Linda (Loma Linda Pathology Residents) - Renal cell carcinoma (Fuhrman nuclear, grade 3-4)
Long Beach (Lakewood Regional Medical Center) - Sarcomatoid renal cell carcinoma (9)
Monterey (Community Hospital of Monterey Peninsula) - Medullary carcinoma
Mountain View (El Camino Pathology Group) - Medullary carcinoma
Orange (Orange County Pathology Medical Group) - Undifferentiated carcinoma with rhabdoid features
Sacramento (UC Davis Medical Center) - Medullary carcinoma
San Diego (Naval Medical Center) - Medullary carcinoma
San Francisco (San Francisco General Hospital) - Rhabdoid tumor
Santa Barbara (Santa Barbara Cottage Hospital) - Rhabdoid tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Renal cell carcinoma with rhabdoid features (1); Renal cell carcinoma (1); Poorly differentiated renal cell carcinoma (1)
Ventura - Transitional cell carcinoma
Alaska (Alaska Native Medical Center) - Renal cell carcinoma, high grade (clear cell/sarcomatoid)
Arizona (Maryvale Medical Center) - Sarcomatoid renal cell carcinoma
Arkansas (University of Arkansas Medical Center) - Renal medullary carcinoma
Colorado - Collecting duct carcinoma
Colorado (Wheat Ridge) - Medullary carcinoma
Florida (Baptist Hospital) - Poorly differentiated renal cell carcinoma with sarcomatoid features (1); Collecting duct carcinoma vs. sarcomatoid renal cell carcinoma (1); Sarcomatoid renal cell carcinoma (1); Medullary carcinoma, poorly differentiated (1); Renal cell carcinoma, poorly differentiated, ? clear cell (1)
Florida (Munroe Regional Medical Center) - Collecting duct carcinoma
Florida (Tallahassee) - Collecting duct carcinoma of Bellini
Florida (Winter Haven Hospital) - Sarcomatoid renal cell carcinoma
Illinois (Burr Ridge) - Renal cell carcinoma, sarcomatoid
Illinois (Evanston Hospital) - Sarcomatoid renal cell carcinoma
Indiana (Ball Memorial Hospital) - Rhabdoid tumor
Indiana (Howard Community Hospital) - Clear cell carcinoma
Louisiana State University Medical Center - Rhabdoid tumor vs. ALCL
Maryland (National Naval Medical Center) - Renal cell carcinoma, poorly differentiated with rhabdoid features
Maryland (University of Maryland Medical Center) - Medullary carcinoma
Massachusetts (Berkshire Medical Center) - Renal cell carcinoma with rhabdoid features
Massachusetts (New England Medical Center Residents) - Medullary carcinoma
Michigan (Oakwood Hospital) - Renal medullary carcinoma
Michigan (St. Joseph Mercy Hospital) - Poorly differentiated carcinoma, favor medullary
Minnesota (Fairview Southdale Hospital) - Rhabdoid tumor
New York (Long Island Jewish Hospital) - Medullary carcinoma
New York (Nassau University Medical Center) - Medullary carcinoma
New York (New York) - Renal medullary carcinoma
North Carolina (Mountain Area Pathology) - Rhabdoid tumor (1); Renal cell carcinoma (1); Renal cell carcinoma, undifferentiated ? rhabdoid (1)
Ohio (Medical College of Ohio) - Rhabdoid tumor
Oklahoma (Tulsa) - Renal cell carcinoma with rhabdoid features
Pennsylvania (Allegheny General Hospital) - Malignant undifferentiated neoplasm with rhabdoid features
Pennsylvania (Centre Community Hospital) - Renal cell carcinoma, clear cell type, high grade
Pennsylvania (Conemaugh Memorial Medical Center) - Renal cell carcinoma, sarcomatoid type
Pennsylvania (Lehigh Valley Hospital) - Rhabdoid tumor (1); Clear cell sarcoma (1)

Pennsylvania (UPMC Health System) - Medullary carcinoma, kidney
Pennsylvania (York Hospital) - Renal cell carcinoma (clear cell type) (8)
Puerto Rico (University of Puerto Rico) - Medullary carcinoma, renal cell carcinoma with rhabdoid features
Rhode Island (RI Hospital Residents) - Medullary carcinoma
Texas (Lubbock) - Collecting duct carcinoma
Texas (ProPath Associates) - Renal cell carcinoma (1); High grade renal cell carcinoma (1)
Texas (San Antonio) - Sarcomatoid carcinoma
Texas (Scott & White Memorial Hospital) - High grade carcinoma with rhabdoid features
West Virginia (Greenbrier Valley Medical Center) - Sarcomatoid renal cell carcinoma
Australia (North Queensland Pathology) - Collecting duct carcinoma
Australia (Royal Prince Alfred Hospital) - Carcinoma with rhabdoid-like cells
Canada (Foothills Medical Center) - Medullary carcinoma
Hong Kong (Hong Kong Baptist Hospital) - Renal medullary carcinoma
Italy (Naples) - Sarcomatoid renal cell carcinoma
Jamaica (The University of the West Indies) - Renal cell carcinoma, clear cell type
Netherlands (Amsterdam) - Rhabdoid tumor
Qatar (Hamad Medical Corporation) - Malignant rhabdoid tumour
Saudi Arabia - Medullary carcinoma

Case 4 - Diagnosis:

Renal medullary carcinoma, kidney
 T-71000, M-83123

Case 4 - References:

Davis CJ, Jr., Mastofi FK and Sesterhenn TA. Renal Medullary Carcinoma. The Seventh Sickle Cell Nephropathy. *Am J Surg Pathol* 1995; 19(1):1-11.
 Swartz MA, Karth J, Schneider DT, Rodriguez R, et al. Renal Medullary Carcinoma. Clinical, Pathologic, Immunohistochemical, and Genetic Analysis with Pathogenetic Implications. *Urol* 2002; 60(6):1083-1089.
 Cheville JC, Lohse CM, Zincke H, et al. Comparisons of Outcome and Prognostic Features Among Histologic Subtypes of Renal Cell Carcinoma. *The Am J of Surg Pathol* 2003; 27(5):612-624.
 Dimashkieh H, Choe J and Mutema G. Renal Medullary Carcinoma. A Report of 2 Cases and Review of the Literature. *Arch Pathol Lab Med* 2003; 127(3):135-138.

Case No. 5, Accession No. 29671

February 2004

Alameda (Alameda County Medical Center) - Angiosarcoma
Arcadia (Garfield Medical Center) - Clear cell carcinoma with fibrosis
Bakersfield - Renal cell carcinoma, clear cell type
Baldwin Park (Kaiser Permanente) - Renal cell carcinoma with sarcomatoid differentiation (3)
Fontana (Kaiser Permanente) - Conventional renal cell carcinoma
Howard/Fremont - Renal cell carcinoma, low grade
Irvine (UC Irvine) - Renal cell carcinoma, sarcomatoid-type
Laguna Beach (South Coast Medical Center) - Sarcomatoid carcinoma
Loma Linda (Loma Linda Pathology Residents) - Renal cell carcinoma, sarcomatoid type
Long Beach (Lakewood Regional Medical Center) - Renal cell carcinoma (9)
Monterey (Community Hospital of Monterey Peninsula) - Renal cell carcinoma
Mountain View (El Camino Pathology Group) - Sarcomatoid renal cell carcinoma
Orange (Orange County Pathology Medical Group) - Renal cell carcinoma, clear cell type
Sacramento (UC Davis Medical Center) - Renal cell carcinoma
San Diego (Naval Medical Center) - Xanthogranulomatous pyelonephritis (7); Sarcomatoid renal cell carcinoma (6)
San Francisco (San Francisco General Hospital) - Renal cell carcinoma, clear cell type
Santa Barbara (Santa Barbara Cottage Hospital) - Renal cell carcinoma, clear cell type
Santa Rosa (Santa Rosa Memorial Hospital) - Renal cell carcinoma, clear cell type (3)

[Ventura](#) - Renal cell adenocarcinoma
[Alaska \(Alaska Native Medical Center\)](#) - Renal cell carcinoma, high grade (clear cell/sarcomatoid)
[Arizona \(Maryvale Medical Center\)](#) - Renal cell carcinoma
[Arkansas \(University of Arkansas Medical Center\)](#) - Renal cell carcinoma, clear cell type
[Colorado](#) - Sarcomatoid renal cell carcinoma
[Colorado \(Wheat Ridge\)](#) - Renal cell carcinoma with sarcomatoid features
[Florida \(Baptist Hospital\)](#) - Fibrosarcoma (1); Clear cell/sarcomatoid renal cell carcinoma (1); Renal cell carcinoma with sarcomatoid areas (1); Sarcomatoid renal cell carcinoma (2)
[Florida \(Munroe Regional Medical Center\)](#) - Renal cell carcinoma
[Florida \(Tallahassee\)](#) - Clear cell renal carcinoma
[Florida \(Winter Haven Hospital\)](#) - Leiomyosarcoma
[Illinois \(Burr Ridge\)](#) - Epithelioid fibrosarcoma
[Illinois \(Evanston Hospital\)](#) - Renal cell carcinoma, clear cell
[Indiana \(Ball Memorial Hospital\)](#) - Clear cell renal cell carcinoma
[Indiana \(Howard Community Hospital\)](#) - Clear cell carcinoma
[Louisiana State University Medical Center](#) - Sarcomatoid renal cell carcinoma
[Maryland \(National Naval Medical Center\)](#) - Renal cell carcinoma, sarcomatoid and clear cell
[Maryland \(University of Maryland Medical Center\)](#) - Sarcomatoid renal cell carcinoma
[Massachusetts \(Berkshire Medical Center\)](#) - Sarcomatoid renal cell carcinoma
[Massachusetts \(New England Medical Center Residents\)](#) - Renal cell carcinoma with clear cell and sarcomatoid features
[Michigan \(Oakwood Hospital\)](#) - Sarcomatoid carcinoma arising from low grade conventional renal cell carcinoma
[Michigan \(St. Joseph Mercy Hospital\)](#) - Clear cell carcinoma
[Minnesota \(Fairview Southdale Hospital\)](#) - Neuroendocrine neoplasm, ? paraganglioma
[New York \(Long Island Jewish Hospital\)](#) - Sarcomatoid renal cell carcinoma
[New York \(Nassau University Medical Center\)](#) - Clear cell carcinoma with sarcomatoid changes
[New York \(New York\)](#) - Sarcomatoid renal carcinoma
[North Carolina \(Mountain Area Pathology\)](#) - Renal cell carcinoma, clear cell type (1); Clear cell carcinoma (1); Clear cell renal carcinoma (1)
[Ohio \(Medical College of Ohio\)](#) - Renal cell carcinoma, sarcomatoid variant
[Oklahoma \(Tulsa\)](#) - Sarcoma, NOS
[Pennsylvania \(Allegheny General Hospital\)](#) - Sarcomatoid renal cell carcinoma arising in conventional clear cell type renal cell carcinoma
[Pennsylvania \(Centre Community Hospital\)](#) - Renal cell carcinoma, clear cell type, with sclerosis and hyalinization
[Pennsylvania \(Conemaugh Memorial Medical Center\)](#) - Renal cell carcinoma, clear cell type
[Pennsylvania \(Lehigh Valley Hospital\)](#) - Renal cell carcinoma (1); Renal cell carcinoma of clear cell type (1)
[Pennsylvania \(UPMC Health System\)](#) - Conventional clear cell carcinoma of kidney
[Pennsylvania \(York Hospital\)](#) - Renal cell carcinoma with sarcomatoid component (8)
[Puerto Rico \(University of Puerto Rico\)](#) - Xanthogranulomatous pyelonephritis
[Rhode Island \(RI Hospital Residents\)](#) - Sarcomatoid renal cell carcinoma
[Texas \(Lubbock\)](#) - Renal cell carcinoma, clear cell type
[Texas \(Propath Associates\)](#) - Sarcomatoid renal cell carcinoma (2)
[Texas \(San Antonio\)](#) - Adrenal cortical carcinoma, sarcomatoid carcinoma
[Texas \(Scott & White Memorial Hospital\)](#) - Hyalinized renal cell carcinoma, clear cell type
[West Virginia \(Greenbrier Valley Medical Center\)](#) - Renal cell carcinoma, clear cell
[Australia \(North Queensland Pathology\)](#) - Sarcomatoid renal cell carcinoma
[Australia \(Royal Prince Alfred Hospital\)](#) - Clear cell renal cell carcinoma with sarcomatoid areas
[Canada \(Foothills Medical Center\)](#) - Clear cell carcinoma
[Hong Kong \(Hong Kong Baptist Hospital\)](#) - Renal cell carcinoma, clear cell type
[Italy \(Naples\)](#) - Clear cell renal cell carcinoma with degenerative changes
[Jamaica \(The University of the West Indies\)](#) - Sarcomatoid renal cell carcinoma arising in clear cell renal cell carcinoma
[Netherlands \(Amsterdam\)](#) - Renal cell adenocarcinoma
[Qatar \(Hamad Medical Corporation\)](#) - Lymphangioma
[Saudi Arabia](#) - Renal cell carcinoma, clear cell type

Case 5 - Diagnosis:

Renal cell carcinoma, conventional clear cell and sarcomatoid, kidney
T-71000, M-83123

Case 5 - References:

- Moch H, Gasser 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; 89(3):604-614.
- Amin MB, Tamboli P, Javidan J, et al. Prognostic Impact of Histologic Subtyping of Adult Renal Epithelial Neoplasms. An Experience of 405 Cases. *Am J Surg Pathol* 2002; 26(3):281-291.
- Krishnan B and Truong LD. Renal Epithelial Neoplasms. The Diagnostic Implications of Electron Microscopic Study in 55 Cases. *Hum Pathol* 2002; 33(1):68-79.
- Mian BM, Bhadkamkar N, Slaton JW, et al. Prognostic Factors and Survival of Patients with Sarcomatoid Renal Cell Carcinoma. *J Urol* 2002; 167(1):65-70.
- Kuroiwa K, Konomoto T, Kumazawa J, et al. Cell Proliferative Activity and Expression of Cell-Cell Adhesion Factors. (E-Cadherin, Alpha-, Beta-, and Gamma-Catenin, and p120) in Sarcomatoid Renal Cell Carcinoma. *J Surg Oncol* 2001; 77(2):123-131.
- 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; 25(3):275-284.

Case No. 6, Accession No. 29723

February 2004

Alameda (Alameda County Medical Center) - Oncocytic neoplasm (chromophil renal cell carcinoma vs. oncocytoma)

Arcadia (Garfield Medical Center) - Chromophobe renal cell carcinoma

Bakersfield - Chromophobe renal cell carcinoma

Baldwin Park (Kaiser Permanente) - Oncocytoma (3)

Fontana (Kaiser Permanente) - Chromophobe renal cell carcinoma

Howard/Fremont - Chromophobe renal cell adenoma, eosinophilic variant, with lamellated inclusions

Irvine (UC Irvine) - Chromophobe renal cell carcinoma, eosinophilic variant

Laguna Beach (South Coast Medical Center) - Chromophobe renal cell carcinoma

Loma Linda (Loma Linda Pathology Residents) - Oncocytoma

Long Beach (Lakewood Regional Medical Center) - Chromophobe carcinoma (9)

Monterey (Community Hospital of Monterey Peninsula) - Granular cell renal carcinoma

Mountain View (El Camino Pathology Group) - Renal cell carcinoma, granular cell type vs. chromophobe carcinoma

Orange (Orange County Pathology Medical Group) - Renal cell carcinoma, granular cell type

Sacramento (UC Davis Medical Center) - Renal cell carcinoma, chromophobe type

San Diego (Naval Medical Center) - Oncocytoma

San Francisco (San Francisco General Hospital) - Chromophobe renal cell carcinoma

Santa Barbara (Santa Barbara Cottage Hospital) - Renal cell carcinoma, granular type

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

Ventura - Renal cell carcinoma, granular cell type

Alaska (Alaska Native Medical Center) - Renal cell carcinoma, papillary

Arizona (Maryvale Medical Center) - Chromophobe renal cell carcinoma, eosinophilic variant

Arkansas (University of Arkansas Medical Center) - Chromophobe carcinoma, eosinophilic variant (granular cell renal cell carcinoma)

Colorado - Chromophobe renal cell carcinoma

Colorado (Wheat Ridge) - Chromophobe renal cell carcinoma

Florida (Baptist Hospital) - Chromophobe renal cell carcinoma (5)

Florida (Munroe Regional Medical Center) - Renal cell carcinoma, chromophobe type

Florida (Tallahassee) - Granular/chromophobe renal carcinoma

Florida (Winter Haven Hospital) - Oncocytoma

Illinois (Burr Ridge) - Chromophobe renal cell carcinoma

Illinois (Evanston Hospital) - Chromophobe carcinoma

Indiana (Ball Memorial Hospital) - Chromophobe cell variant renal cell carcinoma

Indiana (Howard Community Hospital) - Chromophobe type renal cell carcinoma
Louisiana State University Medical Center - Chromophobe renal cell carcinoma
Maryland (National Naval Medical Center) - Renal cell carcinoma, chromophobe
Maryland (University of Maryland Medical Center) - Chromophobe renal cell carcinoma
Massachusetts (Berkshire Medical Center) - Chromophobe renal cell carcinoma
Massachusetts (New England Medical Center Residents) - Chromophobe renal cell carcinoma
Michigan (Oakwood Hospital) - Chromophobe carcinoma
Michigan (St. Joseph Mercy Hospital) - Chromophobe carcinoma
Minnesota (Fairview Southdale Hospital) - Chromophobe tumor (renal cell carcinoma)
New York (Long Island Jewish Hospital) - Oncocytoma
New York (Nassau University Medical Center) - Chromophobe carcinoma
New York (New York) - Renal oncocytoma
North Carolina (Mountain Area Pathology) - Chromophobe renal cell carcinoma
Ohio (Medical College of Ohio) - Renal cell carcinoma, chromophobe type ("granular cell" type)
Oklahoma (Tulsa) - Chromophobe renal cell carcinoma, eosinophilic variant
Pennsylvania (Allegheny General Hospital) - Renal cell carcinoma, chromophobe type
Pennsylvania (Centre Community Hospital) - Renal cell carcinoma, chromophobe type
Pennsylvania (Conemaugh Memorial Medical Center) - Oncocytoma
Pennsylvania (Lehigh Valley Hospital) - Renal cell carcinoma, granular cell type (2)
Pennsylvania (UPMC Health System) - Chromophobe renal cell carcinoma
Pennsylvania (York Hospital) - Renal cell carcinoma, chromophobe (8)
Puerto Rico (University of Puerto Rico) - Conventional renal cell carcinoma with eosinophilic cytoplasm
Rhode Island (RI Hospital Residents) - Chromophobe renal cell carcinoma
Texas (Lubbock) - Chromophobe carcinoma
Texas (Propath Associates) - Granular cell, renal cell carcinoma
Texas (San Antonio) - Oncocytoma
Texas (Scott & White Memorial Hospital) - Renal cell carcinoma, chromophobe type
West Virginia (Greenbrier Valley Medical Center) - Renal cell carcinoma, granular cell
Australia (North Queensland Pathology) - Chromophobe carcinoma
Australia (Royal Prince Alfred Hospital) - Chromophobe
Canada (Foothills Medical Center) - Eosinophilic chromophobe carcinoma
Hong Kong (Hong Kong Baptist Hospital) - Chromophobe carcinoma, eosinophilic variant
Italy (Naples) - Chromophobe renal cell carcinoma
Jamaica (The University of the West Indies) - Oncocytoma
Netherlands (Amsterdam) - Oncocytoma of the kidney
Qatar (Hamad Medical Corporation) - Chromophobe renal cell carcinoma
Saudi Arabia - Chromophobe renal cell carcinoma

Case 6 - Diagnosis:

Chromophobe renal cell carcinoma, kidney
 T-71000, M-82703

Case 6 - References:

- Thoenes W, Storkel S and Rumpelt HJ. Human Chromophobe Cell Renal Carcinoma. *Vichows Arch B Cell Pathol* 1985; 48(3):207-217.
 Storkel S, Steart PV, Drenckhahn D and Thoenes W. The Human Chromophobe Cell Renal Carcinoma. Its Probable Relation to Intercalated Cells of the Collecting Duct. *Virchows Arch Cell Pathol* 1989; 56(4):237-245.
 Abrahams NA, Ayala AG and Czerniak B. Chromophobe Renal Cell Carcinoma with Sarcomatoid Transformation. *Ann Diagn Pathol* 2003; 296-299.
 Cheville JC, Lohse CM, Zincke H, et al. Comparisons of Outcome and Prognostic Features Among Histologic Subtypes of Renal Cell Carcinoma. *Am J Surg Pathol* 2003; 27(5):612-624.
 Kuroda N, Toi M, Hiroi M, et al. Review of Chromophobe Renal Cell Carcinoma with Focus on Clinical and Pathobiological Aspects. *Histol Histopathol* 2003; 18(1):165-171.

Alameda (Alameda County Medical Center) - Adenocarcinoma
Arcadia (Garfield Medical Center) - Prostate adenocarcinoma
Bakersfield - Metastatic prostate carcinoma
Baldwin Park (Kaiser Permanente) - Consistent with prostate carcinoma (heavily fulgurated) (2); Prostate carcinoma (1)
Fontana (Kaiser Permanente) - Prostatic adenocarcinoma
Howard/Fremont - Carcinoma of prostatic origin, high grade (Gleason's 9)
Irvine (UC Irvine) - Collision tumor, prostatic adenocarcinoma and urothelial carcinoma
Laguna Beach (South Coast Medical Center) - Metastatic poorly differentiated prostatic adenocarcinoma
Loma Linda (Loma Linda Pathology Residents) - Poorly differentiated prostate adenocarcinoma (Gleason's, Grade 5) with urothelial features
Long Beach (Lakewood Regional Medical Center) - Prostate carcinoma (9)
Monterey (Community Hospital of Monterey Peninsula) - Prostate carcinoma
Mountain View (El Camino Pathology Group) - Prostatic adenocarcinoma
Orange (Orange County Pathology Medical Group) - Adenocarcinoma
Sacramento (UC Davis Medical Center) - Prostatic carcinoma
San Diego (Naval Medical Center) - Metastatic prostate carcinoma
San Francisco (San Francisco General Hospital) - Prostatic adenocarcinoma
Santa Barbara (Santa Barbara Cottage Hospital) - Metastatic prostate carcinoma to bladder
Santa Rosa (Santa Rosa Memorial Hospital) - Prostatic adenocarcinoma (3)
Ventura - Prostatic adenocarcinoma
Alaska (Alaska Native Medical Center) - Prostate adenocarcinoma
Arizona (Maryvale Medical Center) - Prostatic adenocarcinoma metastatic to bladder
Arkansas (University of Arkansas Medical Center) - Infiltrating prostatic adenocarcinoma, biphasic vs. combined with urothelial carcinoma
Colorado - Gleason's grade 5+5 adenocarcinoma of prostate origin
Colorado (Wheat Ridge) - Metastatic prostate carcinoma
Florida (Baptist Hospital) - Poorly differentiated prostatic adenocarcinoma involving the urinary bladder (1); High grade prostate adenocarcinoma (1); High grade prostate carcinoma (3)
Florida (Munroe Regional Medical Center) - Prostatic adenocarcinoma
Florida (Tallahassee) - Adenocarcinoma, prostatic
Florida (Winter Haven Hospital) - Cauterization artifact precludes adequate evaluation
Illinois (Burr Ridge) - Metastatic prostatic carcinoma
Illinois (Evanston Hospital) - High grade prostatic carcinoma
Indiana (Ball Memorial Hospital) - Prostatic adenocarcinoma
Indiana (Howard Community Hospital) - Suspicious for carcinoma, too much artifact
Louisiana State University Medical Center - Poorly differentiated adenocarcinoma of prostate in bladder
Maryland (National Naval Medical Center) - Transitional cell carcinoma, high grade, with glandular differentiation (8); Prostatic adenocarcinoma (4)
Maryland (University of Maryland Medical Center) - Prostatic carcinoma with possible neuroendocrine differentiation
Massachusetts (Berkshire Medical Center) - High grade urothelial carcinoma
Massachusetts (New England Medical Center Residents) - Collision tumor of transitional cell carcinoma and poorly differentiated prostatic adenocarcinoma
Michigan (Oakwood Hospital) - Carcinoma, consistent with prostate primary
Michigan (St. Joseph Mercy Hospital) - Prostatic adenocarcinoma
Minnesota (Fairview Southdale Hospital) - Adenocarcinoma consistent with prostate 1°, possible low transitional cell carcinoma
New York (Long Island Jewish Hospital) - Prostate carcinoma
New York (Nassau University Medical Center) - Metastatic prostate carcinoma
New York (New York) - Both urothelial carcinoma and high grade prostatic carcinoma
North Carolina (Mountain Area Pathology) - Prostate adenocarcinoma, poorly differentiated (2); Prostate carcinoma (1)
Ohio (Medical College of Ohio) - Invasive high grade urothelial carcinoma and poorly differentiated prostatic carcinoma (Gleason 1)

Oklahoma (Tulsa) - Carcinoma
Pennsylvania (Allegheny General Hospital) - Metastatic prostatic adenocarcinoma
Pennsylvania (Centre Community Hospital) - High grade prostatic adenocarcinoma, bladder
Pennsylvania (Conemaugh Memorial Medical Center) - Metastatic prostatic adenocarcinoma
Pennsylvania (Lehigh Valley Hospital) - Prostatic adenocarcinoma, (1); Lymphoma, favor prostate primary (1)
Pennsylvania (UPMC Health System) - Metastatic prostatic carcinoma and focal high grade urothelial carcinoma
Pennsylvania (York Hospital) - Prostatic adenocarcinoma (8)
Puerto Rico (University of Puerto Rico) - Metastatic prostate adenocarcinoma with neuroendocrine features
Rhode Island (RI Hospital Residents) - Adenocarcinoma consistent with prostatic origin
Texas (Lubbock) - Metastatic prostatic carcinoma
Texas (Propath Associates) - Recurrent prostatic adenocarcinoma (2)
Texas (San Antonio) - Poorly differentiated carcinoma, possibly of prostate origin
Texas (Scott & White Memorial Hospital) - High grade prostate adenocarcinoma
West Virginia (Greenbrier Valley Medical Center) - Prostatic adenocarcinoma, recurrent
Australia (North Queensland Pathology) - Poorly differentiated prostatic adenocarcinoma, ? prostatic duct type
Australia (Royal Prince Alfred Hospital) - Prostatic adenocarcinoma with high grade area
Canada (Foothills Medical Center) - High grade prostate carcinoma invading bladder
Hong Kong (Hong Kong Baptist Hospital) - Prostatic adenocarcinoma
Italy (Naples) - Recurrent metastatic prostatic carcinoma
Netherlands (Amsterdam) - Poorly differentiated (adeno?) carcinoma
Qatar (Hamad Medical Corporation) - Metastatic prostatic carcinoma
Saudi Arabia - Prostatic adenocarcinoma, high grade

Case 7 - Diagnosis:

Recurrent high grade prostatic adenocarcinoma, prostate
 T-77100, M-81403

Consultation: - Jonathan Epstein, M.D., “Recurrent prostatic adenocarcinoma (although we do not grade recurrent prostatic carcinoma, it has a Gleason grade of 5+4, 9 of 10)”

Case 7 - References:

Bok RA and Small EJ. Bloodborne Biomolecular Markers in Prostate Cancer Development and Progression. *Nature Reviews Cancer* 2002; 2(12):918-926.
 Scalzo DA, Kallakury BV, Gaddipati RV, et al. Cell Proliferation Rate by MIB-1 Immunohistochemistry Predicts Postradiation Recurrence in Prostatic Adenocarcinoma. *Am J Clin Pathol* 1998; 109(2):163-168.
 Ripple MG, Potter SR, Partin AW, et al. Needle Biopsy of Recurrent Adenocarcinoma of the Prostate After Radical Prostatectomy. *Mod Pathol* 2000; 13(5):521-527.
 Kobayashi T, Fukuzawa S, Oka H, et al. Isolated Recurrence of Prostatic Adenocarcinoma to the Anterior Urethra After Radical Prostatectomy. *J Urol* 2000; 164(3 Pt 1) 780.
 Wynn SS, Nagabundi S, Koo J, et al. Recurrent Prostate Carcinoma Presenting as Omental Large Cell Carcinoma with Neuroendocrine Differentiation and Resulting in Bowel Obstruction. *Arch Pathol Lab Med* 2000; 124(7):1074-1076.

Case No. 8, Accession No. 29645

February 2004

Alameda (Alameda County Medical Center) - Seminoma
Arcadia (Garfield Medical Center) - Anaplastic seminoma
Bakersfield - Seminoma
Baldwin Park (Kaiser Permanente) - Seminoma consistent with intratubular germ cell neoplasia (3)
Fontana (Kaiser Permanente) - Seminoma
Howard/Fremont - Embryonal carcinoma, rule out anaplastic seminoma
Irvine (UC Irvine) - Seminoma
Laguna Beach (South Coast Medical Center) - Seminoma, classic type
Loma Linda (Loma Linda Pathology Residents) - Seminoma
Long Beach (Lakewood Regional Medical Center) - Seminoma (9)

Monterey (Community Hospital of Monterey Peninsula) - Seminoma
Mountain View (El Camino Pathology Group) - Seminoma
Orange (Orange County Pathology Medical Group) - Seminoma, classic
Sacramento (UC Davis Medical Center) - Classic seminoma
San Diego (Naval Medical Center) - Seminoma
San Francisco (San Francisco General Hospital) - Seminoma
Santa Barbara (Santa Barbara Cottage Hospital) - Seminoma, classic type
Santa Rosa (Santa Rosa Memorial Hospital) - Seminoma
Ventura - Seminoma
Alaska (Alaska Native Medical Center) - Seminoma
Arizona (Maryvale Medical Center) - Seminoma, testicle
Arkansas (University of Arkansas Medical Center) - Seminoma, classic type
Colorado - Seminoma
Colorado (Wheat Ridge) - Seminoma
Florida (Baptist Hospital) - Seminoma (5)
Florida (Munroe Regional Medical Center) - Seminoma
Florida (Tallahassee) - Seminoma
Florida (Winter Haven Hospital) - Anaplastic seminoma
Illinois (Burr Ridge) - Seminoma
Illinois (Evanston Hospital) - Seminoma
Indiana (Ball Memorial Hospital) - Seminoma
Indiana (Howard Community Hospital) - Seminoma
Louisiana State University Medical Center - Seminoma
Maryland (National Naval Medical Center) - Seminoma
Maryland (University of Maryland Medical Center) - Seminoma
Massachusetts (Berkshire Medical Center) - Mixed germ cell tumor with seminoma and embryonal features
Massachusetts (New England Medical Center Residents) - Anaplastic seminoma
Michigan (Oakwood Hospital) - Seminoma
Michigan (St. Joseph Mercy Hospital) - Seminoma, classic type
Minnesota (Fairview Southdale Hospital) - Seminoma
New York (Long Island Jewish Hospital) - Seminoma with pleomorphism
New York (Nassau University Medical Center) - Classical seminoma
New York (New York) - Seminoma and intratubular germ cell neoplasia
North Carolina (Mountain Area Pathology) - Seminoma (3)
Ohio (Medical College of Ohio) - Classic seminoma
Oklahoma (Tulsa) - Seminoma
Pennsylvania (Allegheny General Hospital) - Seminoma
Pennsylvania (Centre Community Hospital) - Seminoma with increased nuclear atypia, testes
Pennsylvania (Conemaugh Memorial Medical Center) - Seminoma, classic type
Pennsylvania (Lehigh Valley Hospital) - Seminoma (2)
Pennsylvania (UPMC Health System) - Embryonal carcinoma
Pennsylvania (York Hospital) - Seminoma (8)
Puerto Rico (University of Puerto Rico) - Classic seminoma
Rhode Island (RI Hospital Residents) - Seminoma
Texas (Lubbock) - Seminoma
Texas (ProPath Associates) - Anaplastic seminoma (2)
Texas (San Antonio) - Seminoma
Texas (Scott & White Memorial Hospital) - Seminoma
West Virginia (Greenbrier Valley Medical Center) - Seminoma
Australia (North Queensland Pathology) - Seminoma
Australia (Royal Prince Alfred Hospital) - Seminoma
Canada (Foothills Medical Center) - Seminoma
Hong Kong (Hong Kong Baptist Hospital) - Classic seminoma

Italy (Naples) - Seminoma

Jamaica (The University of the West Indies) - Seminoma, testis

Netherlands (Amsterdam) - Seminomatous and vascular invasion and intratubular germ cell neoplasia

Qatar (Hamad Medical Corporation) - Seminoma

Saudi Arabia - Seminoma

Case 8 - Diagnosis:

Classic seminoma, testis

T-78000, M-90613

Case 8 – References:

Babaian RJ and Zagars GK. Testicular Seminoma. The M.D. Anderson Experience. An Analysis of Pathological and Patient Characteristics, and Treatment Recommendations. *J Urol* 1988; 139(2):311-314.

Florentine BD, Roscher AA, Garrett J, et al. Necrotic Seminoma of the Testis. Establishing the Diagnosis with Masson Trichrome Stain and Immunostains. *Arch Pathol Lab Med* 2002; 126(2):205-206.

Cheville JC, Rao S, Iczkowski KA, et al. Cytokeratin Expression in Seminoma of the Human Testis. *Am J Clin Pathol* 2000; 113(4):583-588.

Leroy X, Augusto D, Leteurtre E, et al. CD30 and CD117 (C-Kit) Used in Combination are Useful for Distinguishing Embryonal Carcinoma from Seminoma. *J Histochem Cytochem* 2002; 50(2):283-285.

Dubs M, Kwiatkowski MK, Laeng H, Recker F, et al. Development of Testicular Seminoma After Previous Negative Biopsy for Testicular Intraepithelial Neoplasia. *J Urol* 1998; 159(6):2095.

Case No. 9, Accession No. 29426

February 2004

Alameda (Alameda County Medical Center) - B-cell lymphoma

Arcadia (Garfield Medical Center) - Diffuse large B-cell lymphoma

Bakersfield - B-cell lymphoma

Baldwin Park (Kaiser Permanente) - B-cell lymphoma ? (diffuse small) (1); Malignant lymphoma at least intermediate grade (1); B-cell lymphoma, diffuse small with ITGN (1)

Fontana (Kaiser Permanente) - Diffuse large B-cell lymphoma

Howard/Fremont - Lymphoma (also intratubular germ cell arrest)

Irvine (UC Irvine) - B-cell lymphoma

Laguna Beach (South Coast Medical Center) - High grade B-cell lymphoma

Loma Linda (Loma Linda Pathology Residents) - Diffuse B-cell lymphoma

Long Beach (Lakewood Regional Medical Center) - Diffuse large cell B-cell lymphoma (9)

Monterey (Community Hospital of Monterey Peninsula) - B-cell lymphoma, diffuse large cell

Mountain View (El Camino Pathology Group) - Large cell lymphoma, B-cell type

Orange (Orange County Pathology Medical Group) - Diffuse large B-cell lymphoma

Sacramento (UC Davis Medical Center) - Diffuse large B-cell lymphoma

San Diego (Naval Medical Center) - Lymphoma, favor diffuse large B-cell

San Francisco (San Francisco General Hospital) - Diffuse large B-cell lymphoma

Santa Barbara (Santa Barbara Cottage Hospital) - Large B-cell lymphoma

Santa Rosa (Santa Rosa Memorial Hospital) - Diffuse large cell non-Hodgkin's lymphoma, probable B-cell type (2); Malignant lymphoma, diffuse mixed large cell and small cleaved cell type (1)

Ventura - Malignant lymphoma

Alaska (Alaska Native Medical Center) - B-cell lymphoma

Arizona (Maryvale Medical Center) - Diffuse large B-cell lymphoma, testicle

Arkansas (University of Arkansas Medical Center) - Diffuse large B-cell lymphoma, testis

Colorado - Diffuse large B-cell malignant lymphoma

Colorado (Wheat Ridge) - Large cell lymphoma

Florida (Baptist Hospital) - Lymphoma (2); Lymphoma, large B-cell non-cleaved (1); Large B-cell lymphoma (2)

Florida (Munroe Regional Medical Center) - Lymphoma

Florida (Tallahassee) - Large B-cell lymphoma

Florida (Winter Haven Hospital) - Rule out lymphoma

Illinois (Burr Ridge) - Diffuse large B-cell lymphoma
Illinois (Evanston Hospital) - Lymphoma
Indiana (Ball Memorial Hospital) - Non-Hodgkins lymphoma
Indiana (Howard Community Hospital) - Non-Hodgkins lymphoma, mixed type
Louisiana State University Medical Center - Malignant lymphoma, B-phenotype (NOS)
Maryland (National Naval Medical Center) - Malignant B-cell lymphoma
Maryland (University of Maryland Medical Center) - Diffuse large B-cell lymphoma
Massachusetts (Berkshire Medical Center) - Malignant lymphoma, diffuse large B-cell lymphoma
Massachusetts (New England Medical Center Residents) - B-cell lymphoma
Michigan (Oakwood Hospital) - Diffuse large cell B-cell lymphoma
Michigan (St. Joseph Mercy Hospital) - Diffuse large B-cell lymphoma
Minnesota (Fairview Southdale Hospital) - B-cell lymphoma
New York (Long Island Jewish Hospital) - Diffuse B-cell lymphoma
New York (Nassau University Medical Center) - Large B-cell lymphoma, diffuse
New York (New York) - Testicular large B-cell lymphoma
North Carolina (Mountain Area Pathology) - Large cell B-cell lymphoma (2); Diffuse large B-cell lymphoma (1)
Ohio (Medical College of Ohio) - Diffuse large cell B-cell lymphoma, high grade
Oklahoma (Tulsa) - Malignant large B-cell lymphoma
Pennsylvania (Allegheny General Hospital) - Malignant lymphoma, large cell type
Pennsylvania (Centre Community Hospital) - Malignant lymphoma, large B-cell type, diffuse, testes
Pennsylvania (Conemaugh Memorial Medical Center) - Large B-cell lymphoma
Pennsylvania (Lehigh Valley Hospital) - Testicular involvement with B-cell lymphoma (1); Large cell lymphoma, B-cell (1)
Pennsylvania (UPMC Health System) - Malignant lymphoma, diffuse B-cell
Pennsylvania (York Hospital) - Diffuse large B-cell lymphoma (8)
Puerto Rico (University of Puerto Rico) - Diffuse large B-cell lymphoma
Rhode Island (RI Hospital Residents) - Diffuse large B-cell lymphoma
Texas (Lubbock) - Large cell lymphoma
Texas (Propath Associates) - B-cell lymphoma, high grade (2)
Texas (San Antonio) - Diffuse large B-cell lymphoma
Texas (Scott & White Memorial Hospital) - Large cell lymphoma
West Virginia (Greenbrier Valley Medical Center) - Large cell lymphoma
Australia (North Queensland Pathology) - Large B-cell lymphoma
Australia (Royal Prince Alfred Hospital) - B-cell lymphoma
Canada (Foothills Medical Center) - Diffuse large B-cell lymphoma
Hong Kong (Hong Kong Baptist Hospital) - Diffuse large B-cell lymphoma
Italy (Naples) - Malignant large B-cell lymphoma
Jamaica (The University of the West Indies) - B-cell lymphoma, testis
Netherlands (Amsterdam) - Diffuse large B-cell Non-Hodgkins lymphoma
Qatar (Hamad Medical Corporation) - Large “B” cell lymphoma
Saudi Arabia - Lymphoma, large B-cell type

Case 9 - Diagnosis:

Diffuse large B-cell lymphoma, testis
 T-78000, M-95903

Case 9 – References:

Ferry JA, Harris NL, Young RH, et al. Malignant Lymphoma of the Testis, Epididymis and Spermatic Cord. A Clinicopathological Study of 69 Cases with Immunophenotypic Analysis. *Am J Surg Pathol* 1994; 18(4):376-390.
 Moller MB, d’Amore F, Christensen BE. Testicular Lymphoma. A Population-Based Study of Incidence, Clinicopathological Correlations and Prognosis. The Danish Lymphoma Study Group, LYFO. *Eur J Cancer* 1994; 30A(12):1760-1764.
 Tondini C, Ferreri AJ, Siracusano L, et al. Diffuse Large-Cell Lymphoma of the Testis. *J Clin Oncol* 1999; 17(9):2854-2858.
 Shahab N and Doll DC. Testicular Lymphoma. *Semin Oncol* 1999; 26(3):259-269.
 Zucca E, Conconi A, Mughat TI, et al. Patterns of Outcome and Prognostic Factors in Primary Large-Cell Lymphoma of the Testis in a Survey by the International Extranodal Lymphoma Study Group. *J Clin Oncol* 2003; 21(1):20-27.

Alameda (Alameda County Medical Center) - Choriocarcinoma
Arcadia (Garfield Medical Center) - Choriocarcinoma
Bakersfield - Choriocarcinoma
Baldwin Park (Kaiser Permanente) - Choriocarcinoma (1); Extensively necrotic choriocarcinoma (2)
Fontana (Kaiser Permanente) - Choriocarcinoma
Howard/Fremont - Choriocarcinoma
Irvine (UC Irvine) - Choriocarcinoma
Laguna Beach (South Coast Medical Center) - Choriocarcinoma
Loma Linda (Loma Linda Pathology Residents) - Choriocarcinoma
Long Beach (Lakewood Regional Medical Center) - Choriocarcinoma (9)
Monterey (Community Hospital of Monterey Peninsula) - Choriocarcinoma
Mountain View (El Camino Pathology Group) - Choriocarcinoma
Orange (Orange County Pathology Medical Group) - Choriocarcinoma
Sacramento (UC Davis Medical Center) - Choriocarcinoma
San Diego (Naval Medical Center) - Mixed germ cell choriocarcinoma, predominant
San Francisco (San Francisco General Hospital) - Choriocarcinoma
Santa Barbara (Santa Barbara Cottage Hospital) - Choriocarcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Choriocarcinoma (3)
Ventura - Choriocarcinoma
Alaska (Alaska Native Medical Center) - Choriocarcinoma
Arizona (Maryvale Medical Center) - Choriocarcinoma, testicle
Arkansas (University of Arkansas Medical Center) - Choriocarcinoma, testis
Colorado - Choriocarcinoma
Colorado (Wheat Ridge) - Choriocarcinoma
Florida (Baptist Hospital) - Choriocarcinoma (5)
Florida (Munroe Regional Medical Center) - Choriocarcinoma
Florida (Tallahassee) - Choriocarcinoma
Florida (Winter Haven Hospital) - Choriocarcinoma
Illinois (Burr Ridge) - Choriocarcinoma
Illinois (Evanston Hospital) - Choriocarcinoma
Indiana (Ball Memorial Hospital) - Choriocarcinoma
Indiana (Howard Community Hospital) - Choriocarcinoma
Louisiana State University Medical Center - Choriocarcinoma, testicle
Maryland (National Naval Medical Center) - Choriocarcinoma
Maryland (University of Maryland Medical Center) - Choriocarcinoma
Massachusetts (Berkshire Medical Center) - Choriocarcinoma
Massachusetts (New England Medical Center Residents) - Choriocarcinoma
Michigan (Oakwood Hospital) - Choriocarcinoma
Michigan (St. Joseph Mercy Hospital) - Choriocarcinoma
Minnesota (Fairview Southdale Hospital) - Non-seminomatous germ cell tumor ? Choriocarcinoma, evaluate with serum IPOX markers
New York (Long Island Jewish Hospital) - Choriocarcinoma
New York (Nassau University Medical Center) - Choriocarcinoma
New York (New York) - Choriocarcinoma
North Carolina (Mountain Area Pathology) - Choriocarcinoma (3)
Ohio (Medical College of Ohio) - Choriocarcinoma
Oklahoma (Tulsa) - Choriocarcinoma
Pennsylvania (Allegheny General Hospital) - Choriocarcinoma
Pennsylvania (Centre Community Hospital) - Choriocarcinoma, testes

Pennsylvania (Conemaugh Memorial Medical Center) - Choriocarcinoma
Pennsylvania (Lehigh Valley Hospital) - Non-seminomatous germ cell tumor, favor choriocarcinoma (1); Choriocarcinoma (1)
Pennsylvania (UPMC Health System) - Choriocarcinoma
Pennsylvania (York Hospital) - Choriocarcinoma (8)
Puerto Rico (University of Puerto Rico) - Choriocarcinoma
Rhode Island (RI Hospital Residents) - Choriocarcinoma
Texas (Lubbock) - Choriocarcinoma
Texas (ProPath Associates) - Choriocarcinoma (2)
Texas (San Antonio) - Choriocarcinoma
Texas (Scott & White Memorial Hospital) - Choriocarcinoma
West Virginia (Greenbrier Valley Medical Center) - Choriocarcinoma
Australia (North Queensland Pathology) - Choriocarcinoma
Australia (Royal Prince Alfred Hospital) - Choriocarcinoma
Canada (Foothills Medical Center) - Non-seminomatous germ cell tumor
Hong Kong (Hong Kong Baptist Hospital) - Placental site trophoblastic tumor
Italy (Naples) - Choriocarcinoma
Jamaica (The University of the West Indies) - Choriocarcinoma, testis
Netherlands (Amsterdam) - Choriocarcinoma, testis
Qatar (Hamad Medical Corporation) - Choriocarcinoma
Saudi Arabia - Choriocarcinoma

Case 10 - Diagnosis:

Choriocarcinoma, testis
 T-78000, M-91003

Case 10 - References:

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