“GENITOURINARY PATHOLOGY”

Study Cases, Subscription A

February 2003

California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
Loma Linda University School of Medicine
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Loma Linda, California 92350
(909) 558-4788
FAX: (909) 558-0188
E-mail: cttr@linkline.com
Web site & Case of the Month: www.cttr.org
**Target audience:**
Practicing pathologists and pathology residents.

**Goal:**
To acquaint the participant with the histologic features of a variety of benign and malignant neoplasms and tumor-like conditions.

**Objectives:**
The participant will be able to recognize morphologic features of a variety of benign and malignant neoplasms and tumor-like conditions and relate those processes to pertinent references in the medical literature.

**Educational methods and media:**
Review of representative glass slides with associated histories.
Feedback on consensus diagnoses from participating pathologists.
Listing of selected references from the medical literature.

**Principal faculty:**
Weldon K. Bullock, MD
Donald R. Chase, MD

**CME Credit:**
Loma Linda University School of Medicine designates this continuing medical education activity for up to 2 hours of Category I of the Physician’s Recognition Award of the American Medical Association.
CME credit is offered for the subscription year only.

**Accreditation:**
Loma Linda University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians.
Clinical Abstract:
A 52-year-old male with end stage renal disease, on dialysis, underwent bilateral nephrectomy.

Gross Pathology:
The 2055 gram left kidney was 29 x 17 x 12 cm. It had multiple fluid-filled cysts up to 5 cm in greatest diameter. The 2140 gram right kidney was 28 x 14 x 12 cm and contained numerous thin walled semitranslucent cysts to 4.0 cm in greatest diameter.

Clinical Abstract:
This 68-year-old female was found to have a right renal mass.

Gross Pathology:
The 210 gram, 23.0 x 13.0 x 10.0 cm kidney had a 13.0 x 13.0 x 6.0 cm well-circumscribed, rounded, multilocular cystic mass in the lower pole. It was sharply demarcated from the adjacent renal parenchyma and bulged into, but did not invade, the renal pelvis.
Contributor: John McGill, M.D. 
Pasadena, CA

Tissue from: Right kidney 
Accession #29425

Clinical Abstract:
Complaining of vague abdominal symptoms, this 57-year-old female underwent an ultrasound and CT scan, which showed a right renal mass. She had no renal or urinary tract complaints.

Gross Pathology:
The 114 gram, 10.0 x 5.8 x 3.5 cm kidney had a 3.0 x 3.0 x 2.0 cm bulging brown tumor in the upper pole. The cut surface showed a central stellate scar.

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Contributor: LLUMC (Pathology Group) (wc) 
Loma Linda, CA

Tissue from: Left kidney 
Accession #29557

Clinical Abstract:
This 54-year-old male was discovered to have a mass in his left kidney.

Gross Pathology:
The 1345 gram specimen included kidney, adrenal gland and perinephric fat. About 80% of the kidney was replaced by a 14 cm diameter tumor composed of yellow to pink-tan cords and nodules. The tumor filled the renal pelvis, invaded the renal vein and extended into perinephric fat and the accompanying adrenal gland.
Tissue from: Right kidney

Clinical Abstract:
At the time of an elective total body scan, this 52-year-old male was found to have a solid mass in the upper pole of his right kidney.

Gross Pathology:
The 172 gram kidney contained a 4.5 x 2.5 x 2.3 cm mass in the superior pole. The cut surface was variegated golden yellow and red-tan, solid, focally fibrous and hemorrhagic.

Tissue from: Left kidney

Clinical Abstract:
While being treated for recurrent urinary tract infections, this 57-year-old male was found, on ultrasound and CT scan, to have a large left renal mass.

Gross Pathology:
The 626 gram, 15.0 x 10.5 x 7.5 cm left kidney contained a well-circumscribed pink-tan firm neoplasm measuring 7.5 x 7.5 x 7.0 cm, which invaded through the renal capsule into surrounding fat. The cut surface was solid with areas of necrosis.

SPECIAL STUDIES (Outside Facility):
CD117 positive
CAM5.2 positive
Contributor: Tikoes A Blakenberg, M.D.  
Redding, CA  
Case No. 7 - February 2003

Tissue from: Right testicle  
Accession #28804

Clinical Abstract:
On self examination, this 50-year-old male noted a mass in his right testicle.

Gross Pathology:
The 50 gram orchiectomy specimen included a 6 x 3.5 x 3 cm testis. The cut surface showed a 3.0 x 3.0 x 2.0 cm firm, yellow to white fibrous nodule.

Contributor: Jozef Kollin, M.D.  
Lakewood, CA  
Case No. 8 - February 2003

Tissue from: Left testicle  
Accession #29564

Clinical Abstract:
Embarrassed by an enlarged left testicle, this 14-year-old male hide the problem from his family for a year and a half. Physical examination confirmed a mass in the left testicle. A chest x-ray probable bilateral pulmonary metastases.

Gross Pathology:
The 290 gram testis was 9.5 x 10.0 x 8.0 cm and was completely replaced by a yellow-gray, extensively necrotic tumor.

SPECIAL STUDIES (Outside Facility):
CAM5.2/AE1  positive
EMA  negative
PLAP  few positive cells
AFP  rare positive cells
HCG  negative
Contributor: Anthony Migler, M.D.  
Camarillo, CA  
Case No. 9 - February 2003  
Tissue from: Right testicle  
Accession #29393  

Clinical Abstract:  
This 11-month-old male was found to have a right testicular mass.

Gross Pathology:  
The testicle was involved by a 4.0 x 3.5 x 2.5 cm well-defined lobulated mucinous gray-yellow and tan tumor.

Contributor: Richard Johnson, M.D.  
Pasadena, CA  
Case No. 10 - February 2003  
Tissue from: Prostate  
Accession #27249  

Clinical Abstract:  
During work-up for nocturia and painless hematuria, this 71-year-old male was noted to have an enlarged prostate and an elevated PSA. Following biopsy, a radical prostatectomy was performed.

Gross Pathology:  
The 56 gram, 5.5 x 4.0 x 4.0 cm prostate specimen contained a 3.5 cm nodule of soft, tan tumor with scattered yellow flecks.
SUGGESTED READING (General Topics from Recent Literature):


FILE DIAGNOSES

CTTR Subscription A     February 2003

Case 1:                
Adult polycystic kidney disease
T-71000, M-26730

Case 2:                
Cystic nephroma, kidney
T-71000, M-83123

Case 3:                
Oncocytoma, kidney
T-71000, M-82900

Case 4:                
Papillary renal cell carcinoma, kidney
T-71000, M-83123

Case 5:                
Conventional renal cell carcinoma, clear cell type, kidney
T-71000, M-83123

Case 6:                
Sarcomatoid renal cell carcinoma, kidney
T-71000, M-83123

Case 7:                
Spermatocytic seminoma, testis
T-78000, M-86501

Case 8:                
Embryonal carcinoma, testis
T-78000, M-90703

Case 9:                
Yolk sac tumor ("endodermal sinus tumor"), testis
T-78000, M-90713

Case 10:               
Prostatic ductal adenocarcinoma ("endometrioid carcinoma"), prostate
T-77100, M-85003
Case No. 1, Accession No. 29385

Bakersfield - Adult polycystic kidney disease
Baldwin Park (Kaiser Permanente) - Adult polycystic kidney disease (3)
Bay Area - Polycystic kidney disease (3)
Fontana (Kaiser Permanente) - Polycystic kidney disease
Hayward/Fremont - Adult (autosomal dominant) polycystic kidney disease
Laguna Beach (South Coast Medical Center) - Adult polycystic kidney disease
Long Beach - Adult-type polycystic kidneys with dialysis induced papillary tubular epithelial proliferation (7)
Monterey (Community Hospital of Monterey Peninsula) - Polycystic kidney disease
Mountain View (El Camino Pathology Group) - Adult polycystic kidney disease
Oakland (Kaiser Permanente) - Polycystic kidneys consistent with ESRD (6)
Orange (Orange County Medical Group) - Adult polycystic kidney disease
Orange (UCI Medical Center Residents) - Adult polycystic kidney disease
Sacramento (UC Davis Medical Center) - Acquired renal cystic disease due to dialysis
San Diego (Naval Medical Center) - Autosomal dominant polycystic kidney disease
Santa Barbara (Cottage Hospital) - Polycystic kidney disease
Santa Rosa (Santa Rosa Memorial Hospital) - Adult polycystic kidney disease (2); Autosomal dominant polycystic kidney disease (1)
Ventura - Adult-type polycystic disease
Alaska (Alaska Native Medical Center) - Polycystic kidney disease, adult onset
Alaska (Alaska Pathology Laboratory) - Polycystic kidney disease
Arizona (Phoenix Memorial Hospital) - Adult polycystic kidney
Florida (Baptist Hospital) - Polycystic kidneys
Florida (Munroe Regional Medical Center) - Polycystic kidney
Florida (Winter Haven Hospital) - Polycystic renal disease
Illinois (Evanston Northwestern Health Care) - Adult polycystic kidney disease
Indiana (Fort Wayne) - Adult polycystic kidney disease
Kansas (University of Kansas Medical Center) - Polycystic kidney disease
Louisiana (Louisiana State University Medical Center) - Polycystic kidney with focal papillary dysplasia
Maryland (Johns Hopkins Hospital Residents) - Cystic renal cell carcinoma arising in acquired renal cystic disease (1); Adult onset/autosomal dominant polycystic disease (1)
Maryland (National Naval Medical Center) - Adult-type polycystic kidney disease
Maryland (University of Maryland Residents) - Adult polycystic kidney disease
Massachusetts (Brigham & Women's Hospital) - Adult onset polycystic kidney disease
Massachusetts (New England Medical Center Residents) - Adult polycystic kidney disease
Michigan (Marquette General Hospital) - Autosomal dominant polycystic kidney disease
Michigan (Oakwood Hospital) - Autosomal dominant polycystic kidney disease
Michigan (St. Joseph Mercy Hospital) - Adult polycystic kidney
Mississippi (University of Mississippi Medical Center) - Adult-type polycystic kidney disease
Nebraska (Creighton University School of Medicine Residents) - Polycystic kidney disease
New Jersey (Overlook Hospital) - Autosomal dominant polycystic kidney disease (1); Acquired renal cystic disease (3)
New Mexico (University of New Mexico) - Adult polycystic kidney disease
New York (Stony Brook University Hospital Residents) - Adult polycystic kidney disease
New York (Long Island Jewish Medical Center) - Autosomal dominant polycystic kidney disease
New York (Nassau University Medical Center) - Acquired renal cystic disease, kidney bilateral
New York (Westchester Medical Center) - Adult polycystic kidney disease
North Carolina (Mountain Area Pathology) - Polycystic kidney disease (2); Autosomal dominant cystic kidney disease (2)
Oklahoma (Oklahoma University Pathology Residents) - Adult polycystic kidney disease
Oklahoma (Tulsa) - Acquired renal cystic kidney disease consistent with renal dialysis
Oklahoma (Veterans Affairs Medical Center) - Adult polycystic kidney disease
Pennsylvania (Centre Community Hospital) - Adult (autosomal dominant) polycystic kidney disease
Pennsylvania (Memorial Medical Center) - Adult polycystic kidney
Rhode Island (RI Hospital Pathology Residents) - Adult polycystic kidney disease
Texas (ProPath Services) - Polycystic kidney disease (2)
Texas (Scott & White Memorial Hospital) - Polycystic kidney disease
West Virginia (Greenbrier Valley Medical Center) - Acquired renal cystic disease of dialysis
Wisconsin (Meriter Health Services) - Papillary hyperplasia
Australia (North Queensland Pathology) - Adult polycystic kidney
Australia (Royal Prince Alfred Hospital) - Adult polycystic kidney disease
Canada (Foothills Medical Center) - Polycystic kidney
Hong Kong (Hong Kong Baptist Hospital) - Polycystic kidney disease (adult type)
Japan (Shimada City) - Polycystic kidney
Japan (Yamanashi Medical University) - Acquired multilocular cyst (3)
Qatar (Hamad Medical Corporation) - Acquired cystic disease of kidney

Case 1 - Diagnosis:
Adult polycystic kidney disease
T-71000, M-26730

Case 1 - References:

Case No. 2, Accession No. 28925

Bakersfield - Segmental cystic disease
Baldwin Park (Kaiser Permanente) - Cystic nephroma (multilocular cyst) (1); Multicystic renal cell carcinoma (1); Cystic nephroma (1)
Bay Area - Multicystic nephroma (multilocular cyst) (3)
Fontana (Kaiser Permanente) - Cystic nephroma
Hayward/Fremont - Multilocular cyst (cystic nephroma)
Laguna Beach (South Coast Medical Center) - Cystic nephroma
Long Beach - Multilocular renal cyst (7)
Monterey (Community Hospital of Monterey Peninsula) - Cystic nephroma
Mountain View (El Camino Pathology Group) - Multilocular cystic nephroma
Oakland (Kaiser Permanente) - Multilocular cyst (6)
Orange (Orange County Medical Group) - Multicystic nephroma
Orange (UCI Medical Center Residents) - Cystic nephroma
Sacramento (UC Davis Medical Center) - Adult polycystic disease
San Diego (Naval Medical Center) - Cystic nephroma
Santa Barbara (Cottage Hospital) - Multilocular renal cyst
Santa Rosa (Santa Rosa Memorial Hospital) - Multicystic nephroma (2); Multilocular renal cyst (multilocular cystic nephroma) (1)
Ventura - Multilocular cyst (2)
Alaska (Alaska Native Medical Center) - Cystic nephroma
Alaska (Alaska Pathology Laboratory) - Cystic nephroma
Arizona (Phoenix Memorial Hospital) - Multicystic kidney disease
Florida (Baptist Hospital) - Cystic renal cell carcinoma
Florida (Monroe Regional Medical Center) - Adult cystic nephroma
Florida (Winter Haven Hospital) - Microcystic adenoma

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CTTR, February 2003 “Minutes” (Subscription A)
Cystic nephroma

Case 2 - Diagnosis:
Cystic nephroma, kidney
T-71000, M-83123

Case 2 - References:

CTTR, February 2003 “Minutes” (Subscription A)

**Case No. 3, Accession No. 29425**

Bakersfield - Oncocytoma  
Baldwin Park (Kaiser Permanente) - Oncocytoma (3)  
Bay Area - Oncocytoma (3)  
Fontana (Kaiser Permanente) - Oncocytoma  
Hayward/Fremont - Oncocytoma, kidney  
Laguna Beach (South Coast Medical Center) - Oncocytoma  
Long Beach - Oncocytoma (7)  
Monterey (Community Hospital of Monterey Peninsula) - Oncocytoma  
Mountain View (El Camino Pathology Group) - Oncocytoma  
Oakland (Kaiser Permanente) - Oncocytoma  
Orange (Orange County Medical Group) - Oncocytoma  
Orange (UCI Medical Center Residents) - Oncocytoma  
Sacramento (UC Davis Medical Center) - Renal oncocytoma  
San Diego (Naval Medical Center) - Oncocytoma  
Santa Barbara (Cottage Hospital) - Oncocytoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Renal oncocytoma (3)  
Venturi - Oncocytoma (2)  
Alaska (Alaska Native Medical Center) - Oncocytoma  
Alaska (Alaska Pathology Laboratory) - Oncocytoma  
Arizona (Phoenix Memorial Hospital) - Oncocytoma  
Florida (Baptist Hospital) - Oncocytoma  
Florida (Munroe Regional Medical Center) - Oncocytoma  
Florida (Winter Haven Hospital) - Oncocytoma  
Illinois (Evanston Northwestern Health Care) - Renal oncocytoma  
Indiana (Fort Wayne) - Renal oncocytoma, right kidney  
Kansas (University of Kansas Medical Center) - Oncocytoma  
Louisiana (Louisiana State University Medical Center) - Oncocytoma  
Maryland (Johns Hopkins Hospital Residents) - Oncocytoma (1); Renal oncocytoma (1)  
Maryland (National Naval Medical Center) - Oncocytoma  
Maryland (University of Maryland Residents) - Oncocytoma  
Massachusetts (Brigham & Women’s Hospital) - Oncocytoma  
Massachusetts (New England Medical Center Residents) - Oncocytoma  
Michigan (Marquette General Hospital) - Oncocytoma  
Michigan (Oakwood Hospital) - Oncocytoma  
Michigan (St. Joseph Mercy Hospital) - Oncocytoma  
Mississippi (University of Mississippi Medical Center) - Oncocytoma  
Nebraska (Creighton University School of Medicine Residents) - Renal oncocytoma  
New Jersey (Overlook Hospital) - Oncocytoma (4)  
New Mexico (University of New Mexico) - Oncocytoma  
New York (Stony Brook University Hospital Residents) - Oncocytoma  
New York (Long Island Jewish Medical Center) - Renal oncocytoma  
New York (Nassau University Medical Center) - Oncocytoma, right kidney  
New York (Westchester Medical Center) - Renal oncocytoma  
North Carolina (Mountain Area Pathology) - Oncocytoma (4)  
Oklahoma (Oklahoma University Pathology Residents) - Oncocytoma  
Oklahoma (Tulsa) - Oncocytoma
Oklahoma (Veterans Affairs Medical Center) - Oncocytoma
Pennsylvania (Centre Community Hospital) - Renal oncocytoim
Pennsylvania (Memorial Medical Center) - Oncocytoma
Rhode Island (RI Hospital Pathology Residents) - Renal oncocytoim
Texas (ProPath Services) - Oncocytoma (2)
Texas (Scott & White Memorial Hospital) - Oncocytoma
West Virginia (Greenbrier Valley Medical Center) - Renal oncocytoim
Wisconsin (Meriter Health Services) - Oncocytoma
Australia (North Queensland Pathology) - Renal oncocytoim
Australia (Royal Prince Alfred Hospital) - Oncocytoma; DDx: eosinophilic variant chromophobe renal cell carcinoma
Canada (Foothills Medical Center) - Oncocytoma
Hong Kong (Hong Kong Baptist Hospital) - Oncocytoma
Japan (Shimada City) - Oncocytoma
Japan (Yamanashi Medical University) - Oncocytoma (3)
Qatar (Hamad Medical Corporation) - Oncocytoma

Case 3 - Diagnosis:
Oncocytoma, kidney
T-71000, M-82900

Case 3 - References:

Case No. 4, Accession No. 29557

February 2003

Bakersfield - Chromophil renal cell carcinoma
Baldwin Park (Kaiser Permanente) - Renal cell carcinoma, papillary and clear cell features (3)
Bay Area - Renal cell carcinoma, clear cell type, papillary (3)
Fontana (Kaiser Permanente) - Chromophil renal cell carcinoma
Hayward/Fremont - Papillary renal cell carcinoma (clear cell type, unusual)
Laguna Beach (South Coast Medical Center) - Renal cell carcinoma
Long Beach - Papillary renal cell carcinoma (7)
Monterey (Community Hospital of Monterey Peninsula) - Renal cell carcinoma, favor papillary
Mountain View (El Camino Pathology Group) - Renal cell carcinoma, papillary and clear cell type
Oakland (Kaiser Permanente) - Papillary renal cell carcinoma (6)
Orange (Orange County Medical Group) - Carcinoma, papillary renal cell vs. transitional
Orange (UCI Medical Center Residents) - Renal cell carcinoma, papillary type
Sacramento (UC Davis Medical Center) - Papillary renal cell carcinoma
San Diego (Naval Medical Center) - Papillary renal cell carcinoma, grade II
Santa Barbara (Cottage Hospital) - Papillary renal cell carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Renal cell carcinoma (2); Papillary renal cell carcinoma (1)
Ventura - Papillary renal cell carcinoma (2)
Reaal cell carcinoma. papillruy type

P a pill ary re n a l ce ll c arc inom a ( I ) : Pap il l ar y renal Collecting Type 2. papillary renal cell carcinoma

Chromophobe renal cell carcinoma

Clear Chromophobe renal cell carcinoma

Case 4 - Diagnosis:

Papillary renal cell carcinoma, kidney

T-71000, M-83123

Case 4 - References:


**Case No. 5, Accession No. 29529**

**February 2003**

Bakersfield - Renal cell carcinoma, clear cell type

Baldwin Park (Kaiser Permanente) - Renal cell carcinoma, clear cell type (3)

Bay Area - Renal cell carcinoma, clear cell type, solid (3)

Fontana (Kaiser Permanente) - Clear cell, renal cell carcinoma

Hayward/Fremont - Renal cell carcinoma, Fuhrman, grade I-II (low grade)

Laguna Beach (South Coast Medical Center) - Renal cell carcinoma

Long Beach - Clear cell, renal cell carcinoma (7)

Monterey (Community Hospital of Monterey Peninsula) - Renal cell carcinoma, clear cell, grade II

Mountain View (El Camino Pathology Group) - Renal cell carcinoma, clear cell type

Oakland (Kaiser Permanente) - Clear cell renal cell carcinoma, grade I/IV (6)

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

Orange (UCI Medical Center Residents) - Renal cell carcinoma, clear cell type

Sacramento (UC Davis Medical Center) - Clear cell carcinoma, grade I

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

Santa Barbara (Cottage Hospital) - Renal cell carcinoma, grade I, clear cell type

Santa Rosa (Santa Rosa Memorial Hospital) - Renal cell carcinoma (1); Renal cell carcinoma, clear cell type (1)

Ventura - Clear cell renal cell carcinoma (2)

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

Alaska (Alaska Pathology Laboratory) - Renal cell carcinoma, clear cell type

Arizona (Phoenix Memorial Hospital) - Renal cell carcinoma

Florida (Baptist Hospital) - Clear cell, renal cell carcinoma

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

Florida (Winter Haven Hospital) - Clear cell carcinoma

Illinois (Evanston Northwestern Health Care) - Renal cell carcinoma, clear cell type

Indiana (Fort Wayne) - Clear cell, renal cell carcinoma, right kidney

Kansas (University of Kansas Medical Center) - Renal cell carcinoma, clear cell type

Louisiana (Louisiana State University Medical Center) - Clear cell carcinoma of kidney

Maryland (Johns Hopkins Hospital Residents) - Renal cell carcinoma, conventional (clear cell) type, Fuhrman grade II of IV (2)

Maryland (National Naval Medical Center) - Renal cell carcinoma, clear cell type

Maryland (University of Maryland Residents) - Renal cell carcinoma, clear cell

Massachusetts (Brigham & Women's Hospital) - Clear cell, renal cell carcinoma

Massachusetts (New England Medical Center Residents) - Conventional renal cell carcinoma

Michigan (Marquette General Hospital) - Renal cell carcinoma (classic clear cell type)

Michigan (Oakwood Hospital) - Conventional renal cell carcinoma

Michigan (St. Joseph Mercy Hospital) - Renal cell carcinoma, clear cell type

Mississippi (University of Mississippi Medical Center) - Renal cell carcinoma, clear cell (conventional) type

Nebraska (Creighton University School of Medicine Residents) - Renal cell carcinoma, clear cell type, (Fuhrman, grade I)

New Jersey (Overlook Hospital) - Clear cell renal cell carcinoma (4)

New Mexico (University of New Mexico) - Clear cell, renal cell carcinoma

New York (Stony Brook University Hospital Residents) - Renal cell carcinoma, conventional cell type, Fuhrman, grade I/IV

New York (Long Island Jewish Medical Center) - Conventional renal cell carcinoma, low grade I-II

New York (Nassau University Medical Center) - Clear cell, renal cell carcinoma, right kidney
New York (Westchester Medical Center) - Clear cell carcinoma, low nuclear grade
North Carolina (Mountain Area Pathology) - Renal cell carcinoma, clear cell type (4)
Oklahoma (Oklahoma University Pathology Residents) - Clear cell, renal cell carcinoma
Oklahoma (Tulsa) - Renal cell carcinoma, clear cell type
Oklahoma (Veterans Affairs Medical Center) - Conventional renal cell carcinoma, clear cell type
Pennsylvania (Centre Community Hospital) - Renal cell carcinoma, grade I/IV
Pennsylvania (Memorial Medical Center) - Clear cell carcinoma
Rhode Island (RI Hospital Pathology Residents) - Clear cell renal cell carcinoma
Texas (ProPath Services) - Renal cell carcinoma, clear cell type (2)
Texas (Scott & White Memorial Hospital) - Clear cell, renal cell carcinoma
West Virginia (Greenbrier Valley Medical Center) - Renal cell carcinoma, clear cell
Wisconsin (Meriter Health Services) - Clear cell carcinoma, grade II
Australia (North Queensland Pathology) - Clear cell renal cell carcinoma
Australia (Royal Prince Alfred Hospital) - Conventional (clear cell) renal cell carcinoma (Fuhrman I)
Canada (Foothills Medical Center) - Renal cell carcinoma, conventional type (clear cell)
Hong Kong (Hong Kong Baptist Hospital) - Renal cell carcinoma
Japan (Shimada City) - Renal cell carcinoma, clear cell type
Japan (Yamanashi Medical University) - Clear cell renal cell carcinoma (3)
Qatar (Hamad Medical Corporation) - Conventional renal cell carcinoma

Case 5 - Diagnosis:
Conventional renal cell carcinoma, clear cell type, kidney
T-71000, M-83123

Case 5 - References:

Case No. 6, Accession No. 29549

Bakersfield - Sarcomatoid renal cell carcinoma
Baldwin Park (Kaiser Permanente) - Sarcomatoid renal cell carcinoma (3)
Bay Area - Sarcomatoid renal cell carcinoma (3)
Fontana (Kaiser Permanente) - Sarcomatoid renal cell carcinoma
Hayward/Fremont - Angiomyolipoma
Laguna Beach (South Coast Medical Center) - CD117 +, extra-GIST vs. sarcomatoid carcinoma
Long Beach - Pseudosarcomatous (spindle-cell) renal cell carcinoma (7)
Monterey (Community Hospital of Monterey Peninsula) - Sarcomatoid renal cell carcinoma
Mountain View (El Camino Pathology Group) - Sarcomatoid carcinoma
Oakland (Kaiser Permanente) - Sarcomatoid renal cell carcinoma (6)
Orange (Orange County Medical Group) - Renal cell carcinoma, sarcomatoid
Orange (UCI Medical Center Residents) - Sarcomatoid carcinoma
Sacramento (UC Davis Medical Center) - Sarcomatoid renal cell carcinoma
San Diego (Naval Medical Center) - Grade IV, renal cell carcinoma, unclassified (sarcomatoid)

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<table>
<thead>
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<th>Institution</th>
<th>Diagnosis</th>
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<tr>
<td>Santa Barbara (Cottage Hospital)</td>
<td>Sarcomatoid renal cell carcinoma</td>
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<tr>
<td>Santa Rosa (Santa Rosa Memorial Hospital)</td>
<td>Sarcomatoid renal cell carcinoma</td>
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<tr>
<td>Ventura</td>
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<td>Alaska (Alaska Native Medical Center)</td>
<td>Renal cell carcinoma, sarcomatoid (2); Sarcomatoid transitional cell carcinoma (1)</td>
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<td>Sarcomatoid renal cell carcinoma</td>
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<td>Arizona (Phoenix Memorial Hospital)</td>
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<td>Florida (Baptist Hospital)</td>
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<td>Florida (Munroe Regional Medical Center)</td>
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<td>Florida (Winter Haven Hospital)</td>
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<td>Illinois (Evanston Northwestern Health Care)</td>
<td>Gastrointestinal stromal tumor</td>
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<td>Indiana (Fort Wayne)</td>
<td>Sarcomatoid renal cell carcinoma, left kidney</td>
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<td>Kansas (University of Kansas Medical Center)</td>
<td>Renal cell carcinoma, sarcomatoid type</td>
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<td>Louisiana (Louisiana State University Medical Center)</td>
<td>Renal cell carcinoma (sarcomatoid variant)</td>
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<td>Maryland (Johns Hopkins Hospital Residents)</td>
<td>Sarcomatous urethelial carcinoma (would search for CIS component in renal pelvis) (1); Sarcomatoid renal cell carcinoma (1)</td>
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<td>Maryland (National Naval Medical Center)</td>
<td>Renal cell carcinoma, sarcomatoid</td>
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<td>Maryland (University of Maryland Residents)</td>
<td>Sarcomatoid renal cell carcinoma</td>
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<tr>
<td>Massachusetts (Brigham &amp; Women’s Hospital)</td>
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<td>Sarcomatoid renal cell carcinoma</td>
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<td>Michigan (Marquette General Hospital)</td>
<td>Sarcomatoid carcinoma</td>
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<td>Michigan (Oakwood Hospital)</td>
<td>Sarcomatoid renal cell carcinoma</td>
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<td>Michigan (St. Joseph Mercy Hospital)</td>
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<td>Mississippi (University of Mississippi Medical Center)</td>
<td>Sarcomatoid renal cell carcinoma</td>
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<td>Nebraska (Creighton University School of Medicine Residents)</td>
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<td>New Jersey (Overlook Hospital)</td>
<td>Sarcomatoid renal cell carcinoma (4)</td>
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<td>New Mexico (University of New Mexico)</td>
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<tr>
<td>North Carolina (Mountain Area Pathology)</td>
<td>Renal cell carcinoma, sarcomatoid type (4)</td>
</tr>
<tr>
<td>Oklahoma (Oklahoma University Pathology Residents)</td>
<td>Sarcomatoid renal cell carcinoma</td>
</tr>
<tr>
<td>Oklahoma (Tulsa)</td>
<td>Sarcomatoid renal cell carcinoma</td>
</tr>
<tr>
<td>Oklahoma (Veterans Affairs Medical Center)</td>
<td>Renal cell carcinoma, unclassified (“sarcomatoid carcinoma”)</td>
</tr>
<tr>
<td>Pennsylvania (Centre Community Hospital)</td>
<td>Sarcomatoid renal cell carcinoma</td>
</tr>
<tr>
<td>Pennsylvania (Memorial Medical Center)</td>
<td>Sarcomatoid renal cell carcinoma</td>
</tr>
<tr>
<td>Rhode Island (RI Hospital Pathology Residents)</td>
<td>Sarcomatoid renal cell carcinoma</td>
</tr>
<tr>
<td>Texas (ProPath Services)</td>
<td>Stromal sarcoma (2)</td>
</tr>
<tr>
<td>Texas (Scott &amp; White Memorial Hospital)</td>
<td>Sarcomatoid renal cell carcinoma</td>
</tr>
<tr>
<td>West Virginia (Greenbrier Valley Medical Center)</td>
<td>Renal cell carcinoma, sarcomatoid</td>
</tr>
<tr>
<td>Wisconsin (Meriter Health Services)</td>
<td>Angiomyolipoma</td>
</tr>
<tr>
<td>Australia (North Queensland Pathology)</td>
<td>Sarcomatoid renal cell carcinoma</td>
</tr>
<tr>
<td>Australia (Royal Prince Alfred Hospital)</td>
<td>Sarcomatoid carcinoma</td>
</tr>
<tr>
<td>Canada (Foothills Medical Center)</td>
<td>Renal cell carcinoma, sarcomatoid</td>
</tr>
<tr>
<td>Hong Kong (Hong Kong Baptist Hospital)</td>
<td>Sarcomatoid renal cell carcinoma</td>
</tr>
<tr>
<td>Japan (Shimada City)</td>
<td>Sarcomatoid renal cell carcinoma</td>
</tr>
<tr>
<td>Japan (Yamanashi Medical University)</td>
<td>Sarcomatous renal cell carcinoma (2); Xanthogranulomatous pyelonephritis (1)</td>
</tr>
<tr>
<td>Qatar (Hamad Medical Corporation)</td>
<td>Sarcomatoid renal cell carcinoma (1); Metanephric adenocarcinoma (2nd choice)</td>
</tr>
</tbody>
</table>

**Case 6 - Diagnosis:**

Sarcomatoid renal cell carcinoma, kidney

T-71000, M-83123
Case 6 - References:

Case No. 7, Accession No. 28804

Bakersfield - Spermatocytic seminoma
Baldwin Park (Kaiser Permanente) - Spermatocytic seminoma (3)
Bay Area - Seminoma (3)
Fontana (Kaiser Permanente) - Spermatocytic seminoma
Hayward/Fremont - Spermatocytic seminoma
Laguna Beach (South Coast Medical Center) - Spermatocytic seminoma
Long Beach - Spermatocytic seminoma (7)
Monterey (Community Hospital of Monterey Peninsula) - Spermatocytic seminoma
Mountain View (El Camino Pathology Group) - Spermatocytic seminoma
Oakland (Kaiser Permanente) - Classic seminoma (5); Spermatocytic seminoma (1)
Orange (Orange County Medical Group) - Seminoma, spermatocytic
Orange (UCI Medical Center Residents) - Spermatocytic seminoma
Sacramento (UC Davis Medical Center) - Spermatocytic seminoma
San Diego (Naval Medical Center) - Spermatocytic seminoma
Santa Barbara (Cottage Hospital) - Seminoma
Santa Rosa (Santa Rosa Memorial Hospital) - Spermatocytic seminoma (3)
Ventura - Spermatocytic seminoma (2)
Alaska (Alaska Native Medical Center) - Spermatocytic seminoma
Alaska (Alaska Pathology Laboratory) - Spermatocytic seminoma
Arizona (Phoenix Memorial Hospital) - Spermatocytic seminoma
Florida (Baptist Hospital) - Seminoma
Florida (Munro Regional Medical Center) - Spermatocytic seminoma
Florida (Winter Haven Hospital) - Seminoma
Illinois (Evanston Northwestern Health Care) - Spermatocytic seminoma
Indiana (Fort Wayne) - Spermatocytic seminoma, right testis
Kansas (University of Kansas Medical Center) - Seminoma
Louisiana (Louisiana State University Medical Center) - Spermatocytic seminoma
Maryland (Johns Hopkins Hospital Residents) - Spermatocytic seminoma (2)
Maryland (National Naval Medical Center) - Spermatocytic seminoma
Maryland (University of Maryland Residents) - Spermatocytic seminoma
Massachusetts (Brigham & Women's Hospital) - Spermatocytic seminoma
Massachusetts (New England Medical Center Residents) - Spermatocytic seminoma
Michigan (Marquette General Hospital) - Spermatocytic seminoma
Michigan (Oakwood Hospital) - Spermatocytic seminoma
Michigan (St. Joseph Mercy Hospital) - Spermatocytic seminoma
Mississippi (University of Mississippi Medical Center) - Spermatocytic seminoma
Nebraska (Creighton University School of Medicine Residents) - Spermatocytic seminoma
New Jersey (Overlook Hospital) - Seminoma (4)
New Mexico (University of New Mexico) - Spermatocytic seminoma
New York (Stony Brook University Hospital Residents) - Spermatocytic seminoma
New York (Long Island Jewish Medical Center) - Spermatocytic seminoma, testicle

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New York (Nassau University Medical Center) - Spermatocytic seminoma, right testicle
New York (Westchester Medical Center) - Spermatocytic seminoma and IGCNU
North Carolina (Mountain Area Pathology) - Seminoma (4)
Oklahoma (Oklahoma University Pathology Residents) - Spermatocytic seminoma
Oklahoma (Tulsa) - Spermatocytic seminoma
Oklahoma (Veterans Affairs Medical Center) - Spermatocytic seminoma
Pennsylvania (Centre Community Hospital) - Spermatocytic seminoma
Pennsylvania (Memorial Medical Center) - Classic seminoma
Rhode Island (RI Hospital Pathology Residents) - Spermatocytic seminoma
Texas (ProPath Services) - Spermatocytic seminoma (2)
Texas (Scott & White Memorial Hospital) - Seminoma
West Virginia (Greenbrier Valley Medical Center) - Spermatocytic seminoma
Wisconsin (Meriter Health Services) - Seminoma
Australia (North Queensland Pathology) - Spermatocytic seminoma
Australia (Royal Prince Alfred Hospital) - Spermatocytic seminoma
Canada (Foothills Medical Center) - Spermatocytic seminoma
Hong Kong (Hong Kong Baptist Hospital) - Seminoma, classical type
Japan (Shimada City) - Spermatocytic seminoma
Japan (Yamanashi Medical University) - Spermatocytic seminoma (2); Seminoma (1)
Qatar (Hamad Medical Corporation) - Seminoma

Case 7 - Diagnosis:
Spermatocytic seminoma, testis
T-78000, M-86501

Case 7 - References:

Case No. 8, Accession No. 29564

Bakersfield - Embryonal carcinoma
Baldwin Park (Kaiser Permanente) - Embryonal carcinoma (3)
Bay Area - Mixed germ cell tumor (predominant embryonal/yolk sac) (3)
Fontana (Kaiser Permanente) - Embryonal carcinoma
Hayward/Fremont - Embryonal carcinoma (possible minor yolk sac component)
Laguna Beach (South Coast Medical Center) - Embryonal carcinoma
Long Beach - Embryonal carcinoma (7)
Monterey (Community Hospital of Monterey Peninsula) - Non-Seminomatous Germ Cell Tumor, embryonal vs. mixed (yolk sac and embryonal)
Mountain View (El Camino Pathology Group) - Embryonal carcinoma
Oakland (Kaiser Permanente) - Embryonal carcinoma (6)
Orange (Orange County Medical Group) - Embryonal carcinoma
Orange (UCI Medical Center Residents) - Embryonal carcinoma
Sacramento (UC Davis Medical Center) - Embryonal carcinoma
San Diego (Naval Medical Center) - Embryonal carcinoma
Santa Barbara (Cottage Hospital) - Mixed germ cell tumor, predominantly yolk sac with embryonal carcinoma

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Santa Rosa (Santa Rosa Memorial Hospital) - Embryonal carcinoma (3)
Ventura - Yolk sac tumor (2)
Alaska (Alaska Native Medical Center) - Embryonal carcinoma (3); ? small focus of yolk sac (1)
Alaska (Alaska Pathology Laboratory) - Embryonal carcinoma
Arizona (Phoenix Memorial Hospital) - Mixed germ cell neoplasm, predominantly embryonal carcinoma with focal yolk sac tumor
Florida (Baptist Hospital) - Embryonal carcinoma
Florida (Munroe Regional Medical Center) - Embryonal carcinoma
Florida (Winter Haven Hospital) - Mixed germ cell tumor
Illinois (Evanston Northwestern Health Care) - Embryonal carcinoma
Indiana (Fort Wayne) - Embryonal carcinoma
Kansas (University of Kansas Medical Center) - Mixed germ cell tumor
Louisiana (Louisiana State University Medical Center) - Embryonal carcinoma
Maryland (Johns Hopkins Hospital Residents) - Embryonal carcinoma (1); Embryonal carcinoma with vascular invasion (1)
Maryland (National Naval Medical Center) - Mixed germ cell tumor with embryonal carcinoma and yolk sac tumor components (7); Embryonal carcinoma (3)
Maryland (University of Maryland Residents) - Mixed germ cell tumor, predominantly embryonal carcinoma, Yolk sac tumor (2nd choice)
Massachusetts (Brigham & Women’s Hospital) - Embryonal carcinoma
Massachusetts (New England Medical Center Residents) - High grade mixed germ cell tumor
Michigan (Marquette General Hospital) - Embryonal carcinoma
Michigan (Oakwood Hospital) - Embryonal carcinoma, with small focus of yolk sac tumor
Michigan (St. Joseph Mercy Hospital) - Embryonal carcinoma
Mississippi (University of Mississippi Medical Center) - Embryonal carcinoma
Nebraska (Creighton University School of Medicine Residents) - Embryonal carcinoma
New Jersey (Overlook Hospital) - Embryonal carcinoma (4)
New Mexico (University of New Mexico) - Embryonal carcinoma
New York (Stony Brook University Hospital Residents) - Embryonal carcinoma
New York (Long Island Jewish Medical Center) - Embryonal carcinoma, testicle
New York (Nassau University Medical Center) - Embryonal carcinoma, left testicle
New York (Weschester Medical Center) - Embryonal carcinoma
North Carolina (Mountain Area Pathology) - Embryonal carcinoma (4)
Oklahoma (Oklahoma University Pathology Residents) - Mixed germ cell tumor with embryonal and yolk sac components
Oklahoma (Tulsa) - Embryonal carcinoma
Oklahoma (Veterans Affairs Medical Center) - Non-seminomatous germ cell tumor, predominantly embryonal carcinoma with minor yolk sac tumor component
Pennsylvania (Centre Community Hospital) - Embryonal carcinoma
Pennsylvania (Memorial Medical Center) - Malignant mixed germ cell tumor (embryonal, yolk sac tumor)
Rhode Island (RI Hospital Pathology Residents) - Embryonal carcinoma
Texas (ProPath Services) - Embryonal carcinoma (2)
Texas (Scott & White Memorial Hospital) - Embryonal carcinoma
West Virginia (Greenbrier Valley Medical Center) - Embryonal carcinoma
Wisconsin (Meriter Health Services) - Embryonal carcinoma
Australia (North Queensland Pathology) - Embryonal carcinoma
Australia (Royal Prince Alfred Hospital) - Embryonal carcinoma
Canada (Foothills Medical Center) - Embryonal carcinoma
Hong Kong (Hong Kong Baptist Hospital) - Embryonal carcinoma
Japan (Shimada City) - Embryonal carcinoma
Japan (Yamanashi Medical University) - Embryonal carcinoma and yolk sac tumor (2); Embryonal carcinoma (1)
Qatar (Hamad Medical Corporation) - Embryonal carcinoma

Case 8 - Diagnosis:
Embryonal carcinoma, testis
T-78000, M-90703
Case 8 – References:

Case No. 9, Accession No. 29393

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Bakersfield - Yolk sac tumor
Baldwin Park (Kaiser Permanente) - Yolk sac tumor (3)
Bay Area - Endodermal sinus (yolk sac) tumor (3)
Fontana (Kaiser Permanente) - Endodermal sinus tumor (yolk sac tumor)
Hayward/Fremont - Yolk sac carcinoma, juvenile type
Laguna Beach (South Coast Medical Center) - Yolk sac tumor
Long Beach - Endodermal sinus tumor (7)
Monterey (Community Hospital of Monterey Peninsula) - Yolk sac tumor vs. endodermal sinus tumor
Mountain View (El Camino Pathology Group) - Endodermal sinus tumor
Oakland (Kaiser Permanente) - Endodermal sinus tumor (6)
Orange (Orange County Medical Group) - Yolk sac tumor
Orange (UCI Medical Center Residents) - Yolk sac tumor
Sacramento (UC Davis Medical Center) - Yolk sac tumor
San Diego (Naval Medical Center) - Yolk sac tumor
Santa Barbara (Cottage Hospital) - Yolk sac tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Endodermal sinus tumor (2); Yolk sac (endodermal sinus) tumor (1)
Ventura - Yolk sac tumor (2)
Alaska (Alaska Native Medical Center) - Yolk sac tumor (endodermal sinus and microcystic patterns)
Alaska (Alaska Pathology Laboratory) - Yolk sac tumor
Arizona (Phoenix Memorial Hospital) - Yolk sac tumor (endodermal sinus tumor)
Florida (Baptist Hospital) - Yolk sac tumor
Florida (Munroe Regional Medical Center) - Yolk sac carcinoma
Florida (Winter Haven Hospital) - Yolk sac tumor
Illinois (Evanston Northwestern Health Care) - Yolk sac tumor
Indiana (Fort Wayne) - Infantile yolk sac tumor, right testis
Kansas (University of Kansas Medical Center) - Yolk sac tumor
Louisiana (Louisiana State University Medical Center) - Endodermal sinus tumor
Maryland (Johns Hopkins Hospital Residents) - Yolk sac tumor (2)
Maryland (National Naval Medical Center) - Yolk sac tumor
Maryland (University of Maryland Residents) - Yolk sac tumor
Massachusetts (Brigham & Women’s Hospital) - Yolk sac tumor
Massachusetts (New England Medical Center Residents) - Endodermal sinus tumor
Michigan (Marquette General Hospital) - Yolk sac tumor
Michigan (Oakwood Hospital) - Yolk sac tumor
Michigan (St. Joseph Mercy Hospital) - Yolk sac tumor
Mississippi (University of Mississippi Medical Center) - Yolk sac tumor
Nebraska (Creighton University School of Medicine Residents) - Yolk sac tumor
New Jersey (Overlook Hospital) - Yolk sac carcinoma (4)
New Mexico (University of New Mexico) - Yolk sac tumor
New York (Stony Brook University Hospital Residents) - Yolk sac tumor with angiofib invasion
New York (Long Island Jewish Medical Center) - Yolk sac tumor, testicle
New York (Nassau University Medical Center) - Yolk sac tumor, right testicle
New York (Westchester Medical Center) - Yolk sac tumor
North Carolina (Mountain Area Pathology) - Yolk sac tumor (4)
Oklahoma (Oklahoma University Pathology Residents) - Endodermal sinus (yolk sac) tumor
Oklahoma (Tulsa) - Yolk sac tumor (endodermal sinus tumor)
Oklahoma (Veterans Affairs Medical Center) - Yolk sac tumor
Pennsylvania (Centre Community Hospital) - Yolk sac tumor, testicle
Pennsylvania (Memorial Medical Center) - Yolk sac tumor
Rhode Island (RI Hospital Pathology Residents) - Yolk sac tumor
Texas (ProPath Services) - Yolk sac tumor (endodermal sinus tumor) (2)
Texas (Scott & White Memorial Hospital) - Yolk sac tumor
West Virginia (Greenbrier Valley Medical Center) - Yolk sac tumor
Wisconsin (Meriter Health Services) - Yolk sac tumor
Australia (North Queensland Pathology) - Yolk sac tumor
Australia (Royal Prince Alfred Hospital) - Yolk sac tumor
Canada (Foothills Medical Center) - Endodermal sinus tumor (yolk sac tumor)
Hong Kong (Hong Kong Baptist Hospital) - Yolk sac tumor
Japan (Shimada City) - Polyembryoma
Japan (Yamanashi Medical University) - Yolk sac tumor (3)
Qatar (Hamad Medical Corporation) - Yolk sac tumor

Case 9 - Diagnosis:
Yolk sac tumor ("endodermal sinus tumor"), testis
T-78000, M-90713

Case 9 - References:

Case No. 10, Accession No. 27249

Bakersfield - Comedocarcinoma of prostate
Baldwin Park (Kaiser Permanente) - Adenocarcinoma prostate consistent with extra prostatic extension vs. prostatic ductal carcinoma (1); Prostate duct carcinoma (1); Prostatic duct carcinoma (with extraprostatic extension) (1)
Bay Area - Prostatic adenocarcinoma (3)
Fontana (Kaiser Permanente) - Prostatic duct adenocarcinoma
Hayward/Fremont - Ductal (endometrioid) carcinoma, prostate
Laguna Beach (South Coast Medical Center) - Comedocarcinoma
Long Beach - Adenocarcinoma of prostate duct origin (7)
Monterey (Community Hospital of Monterey Peninsula) - Prostate carcinoma, grade 3
Mountain View (El Camino Pathology Group) - Invasive adenocarcinoma, Gleason 4+5 (prostatic duct adenocarcinoma)
Oakland (Kaiser Permanente) - Ductal type adenocarcinoma (3); High grade prostate carcinoma (3)

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Orange (Orange County Medical Group) - Adenocarcinoma
Orange (UCI Medical Center Residents) - Prostate ductal carcinoma
Sacramento (UC Davis Medical Center) - Prostatic duct adenocarcinoma
San Diego (Naval Medical Center) - Prostatic duct carcinoma, Gleason 5+5
Santa Barbara (Cottage Hospital) - Prostatic duct adenocarcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - High-grade prostatic adenocarcinoma with comedonecrosis (2); High grade prostatic adenocarcinoma (1)
Ventura - Prostatic duct adenocarcinoma (2)
Alaska (Alaska Native Medical Center) - Prostate duct carcinoma (cribriform pattern)
Alaska (Alaska Pathology Laboratory) - Prostatic duct adenocarcinoma
Arizona (Phoenix Memorial Hospital) - Prostatic duct adenocarcinoma
Florida (Baptist Hospital) - Endometrioid carcinoma of prostate
Florida (Munroe Regional Medical Center) - Prostatic duct adenocarcinoma
Florida (Winter Haven Hospital) - Prostatic ductal adenocarcinoma
Illinois (Evanston Northwestern Health Care) - Adenocarcinoma of prostate with endometrioid features and necrosis
Indiana (Fort Wayne) - Gleason 8, infiltrating cribriform adenocarcinoma of prostate
Kansas (University of Kansas Medical Center) - Ductal prostatic adenocarcinoma, endometrioid type
Louisiana (Louisiana State University Medical Center) - Prostatic duct adenocarcinoma with endometrioid features
Maryland (Johns Hopkins Hospital Residents) - Prostatic duct carcinoma (1); Cribriform prostatic duct carcinoma, with extraprostatic extension and at the inked surgical margin (1)
Maryland (National Naval Medical Center) - Prostatic adenocarcinoma of large duct origin
Maryland (University of Maryland Residents) - Prostatic adenocarcinoma (comedocarcinoma, Gleason 5+5=10
Massachusetts (Brigham & Women's Hospital) - Prostatic ductal adenocarcinoma, endometrioid type
Massachusetts (New England Medical Center Residents) - Comedocarcinoma
Michigan (Marquette General Hospital) - Prostatic ductal ("endometrioid") carcinoma
Michigan (Oakwood Hospital) - Prostatic duct carcinoma
Michigan (St. Joseph Mercy Hospital) - Adenocarcinoma
Mississippi (University of Mississippi Medical Center) - Prostatic duct adenocarcinoma
Nebraska (Creighton University School of Medicine Residents) - Prostatic duct carcinoma
New Jersey (Overlook Hospital) - Prostatic duct carcinoma (4)
New Mexico (University of New Mexico) - Prostatic adenocarcinoma, duct variant
New York (Stony Brook University Hospital Residents) - Prostate adenocarcinoma, Gleason score 8 (5+3), with component
New York (Long Island Jewish Medical Center) - Prostatic ductal adenocarcinoma (comedocarcinoma of prostate)
New York (Nassau University Medical Center) - Comedocarcinoma of prostate
New York (Westchester Medical Center) - Prostatic duct carcinoma
North Carolina (Mountain Area Pathology) - Prostatic duct carcinoma (3); Large duct carcinoma (prostatic duct carcinoma)
Oklahoma (Oklahoma University Pathology Residents) - Prostatic duct (endometrioid) carcinoma
Oklahoma (Tulsa) - Ductal "endometrioid" type B carcinoma
Oklahoma (Veterans Affairs Medical Center) - Ductal (endometrioid) carcinoma of prostate, type B
Pennsylvania (Centre Community Hospital) - Ductal adenocarcinoma with comedocarcinoma differentiation
Pennsylvania (Memorial Medical Center) - High grade adenocarcinoma (ductal type)
Rhode Island (RI Hospital Pathology Residents) - Prostate adenocarcinoma with comedo and cribriform features, Gleason score 8 (5+3)
Texas (ProPath Services) - Adenocarcinoma of prostate (1); Adenocarcinoma of prostate, cribriform type (1)
Texas (Scott & White Memorial Hospital) - Prostatic duct carcinoma
West Virginia (Greenbrier Valley Medical Center) - Prostatic duct carcinoma
Wisconsin (Meriter Health Services) - Prostatic duct adenocarcinoma
Australia (North Queensland Pathology) - Intraduct and invasive prostatic duct carcinoma
Australia (Royal Prince Alfred Hospital) - Prostatic ductal adenocarcinoma (endometrioid)
Canada (Foothills Medical Center) - High grade prostatic carcinoma with ductal features
Hong Kong (Hong Kong Baptist Hospital) - Prostatic duct adenocarcinoma
Japan (Shimada City) - Prostatic duct carcinoma
Japan (Yamanashi Medical University) - Prostatic ductal carcinoma (2); Adenocarcinoma (1)
Qatar (Hamad Medical Corporation) - Large duct adenocarcinoma (1); Endometrioid variant (2nd choice)

Case 10 - Diagnosis:
Prostatic ductal adenocarcinoma ("endometroid carcinoma"), prostate
T-77100, M-85003

Case 10 - References: