



CALIFORNIA
TUMOR TISSUE REGISTRY

“TUMORS OF THE PROSTATE & GENITOURINARY
SYSTEM”

Minutes – Subscription B

May, 2004



SUGGESTED READING (General Topics from Recent Literature):

Medullary carcinoma: Provocative Now and Then. Eickhorn JH: *Semin Diagn Pathol*, 2004 Feb; 21(1):65-73

The Mammographic Screening Trials: Commentary On The Recent Work By Olsen and Gotzsch. Duffy SW, Tabar L, Smith RA. *CA Cancer J Clin*, 2002 Mar-Apr; 52(2):68-71. Review.

Five and Ten-Year Survival in Cancer Patients Age 90 and Older: A Study of 37, 318 Patients From SEER. Saltzstein SL, Behling CA. *J Surg Oncol*, 2002 Nov; 81(3):113-16.

Soft Tissue Sarcomas. Cormier JN, Pollock RE: *Cancer J Clin*, 2004 Mar/Apr; 54(2):94-109.

California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
Loma Linda University School of Medicine
11021 Campus Avenue, AH 335
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

FILE DIAGNOSES

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CTTR Subscription B

May, 2004

Case 1:

Granulomatous prostatitis

T-77100, M-44000

Case 2:

Atypical basal cell hyperplasia, glandular subtype

T-77100, M-72120

Case 3:

Embryonal rhabdomyosarcoma, prostate

T-77100, M-89103

Case 4:

Low grade leiomyosarcoma, kidney

T-71000, M-88903

Case 5:

Papillary renal cell carcinoma, kidney

T-71000, M-83123

Case 6:

Chromophobe renal cell carcinoma, kidney

T-71000, M-82703

Case 7:

Collecting duct carcinoma, kidney

T-71000, M-81203

Case 8:

Wilms' tumor (nephroblastoma), favorable histology, kidney

T-71000, M-89603

Case 9:

Transitional (urothelial) carcinoma in-situ, bladder

T-74000, M-81202

Case 10:

Papillary transitional cell (urothelial) carcinoma, ureter

T-73000, M-81303

Escondido - Granulomatous prostatitis
Glendale - Xanthogranulomatous prostatitis
Granada Hills - Granulomatous inflammation
Orange (UCI Medical Center Residents) - Granulomatous prostatitis
Sacramento (UC Davis Medical Center) - Granulomatous prostatitis
San Francisco (San Francisco General Hospital) - Suppurative granulomatous prostatitis
Arizona (Phoenix Memorial Hospital) - Granulomatous prostatitis
Colorado, Denver - Acute prostatitis
Florida (Winter Haven Hospital) - Granulomatous prostatitis (2)
Florida, Ocala - Granulomatous prostatitis
Georgia, Decatur - Granulomatous prostatitis
Illinois (Heartland Regional Medical Center) - Granulomatous prostatitis
Kansas (Coffeyville Regional Medical Center) - Chronic granulomatous and focal acute prostatitis
Kansas, Manhattan - Granulomatous prostatitis
Kentucky (University of Louisville Hospital) - Granulomatous prostatitis with malakoplakia
Louisiana, Metairie - Granulomatous prostatitis
Maryland (Johns Hopkins Medical Institute) - Granulomatous prostatitis
Maryland (University of Maryland Medical Center) - Xanthogranulomatous prostatitis/malakoplakia
Michigan, Grand Rapids - Non-specific granulomatous prostatitis
New York (SUNY Stony Brook Residents) - Granulomatous prostatitis
Ohio (MCO Pathology) - Inflammatory pseudotumor
Ohio, Columbus - Granulomatous prostatitis
Pennsylvania (Drexel University College of Medicine) - Chronic prostatitis
Pennsylvania (Memorial Medical Center) - Granulomatous prostatitis
Pennsylvania (Wyoming Valley Health Care) - Non-specific granulomatous prostatitis
Texas (Scott & White Hospital) - Granulomatous prostatitis
Texas, Lubbock - Granulomatous prostatitis
Texas, San Antonio - Granulomatous prostatitis
Washington, D.C. - Granulomatous prostatitis
Canada (University of Toronto) - Granulomatous prostatitis
China (Sir Run Run Shaw Hospital) - Granulomatous prostatitis
Italy, Naples - Malakoplakia
Japan (Gunma University Hospital) - Granulomatous prostatitis
Japan, Chiba - Non-specific granulomatous prostatitis
Puerto Rico (University of Puerto Rico) - Non-specific granulomatous prostatitis
Qatar, Doha - Granulomatous prostatitis
Spain (Povisa) - Non-specific granulomatous prostatitis
The Netherlands, Amstelveen - Granulomatous prostatitis

Case 1 - Diagnosis:

Granulomatous prostatitis
T-77100, M-44000

Case 1 - References:

- Dahami Z, Sarf I, Dakir M, et al: Granulomatous Prostatitis. Report Of 6 Cases. *Ann Urol*, 2003 Oct; 37(5):299-301.
 Day DS, Carpenter HD, Allsbrook WC: Hair Granuloma Of The Prostate. *Hum Pathol*, 1996 Feb; 27(2):196-7.
 Garcia Solano J, Sanchez Sanchez C, Montalban Romero S, Perez-Guillermo M: Diagnostic Dilemmas In The Interpretation Of Fine Needle Aspirates Of Granulomatous Prostatitis. *Diagn Cytopathol*, 1998 Mar; 18(3):215-21.
 La Fontaine PD, Middleman BR, Graham SD, Sanders WH: Incidence Of Granulomatous Prostatitis And Acid-Fast Bacilli After Intravesical BCG Therapy. *Urology*, 1997 Mar; 49(3):363-6.
 Oppenheimer JR, Kahane H, Epstein JI: Granulomatous Prostatitis On Needle Biopsy. *Arch Pathol Lab Med*, 1997 Jul; 121(7):724-9.
 Roberts RO, Lieber MM, Bostwick DG, Jacobsen SJ: A Review Of Clinical And Pathological Prostatitis Syndromes. *Urology*, 1997 Jun; 49(6):809-21.

Escondido - Basaloid carcinoma
Glendale - Adenoid cystic/basal cell carcinoma
Granada Hills - Basal cell hyperplasia
Orange (UCI Medical Center Residents) - Basal cell hyperplasia, prostate
Sacramento (UC Davis Medical Center) - Atypical adenomatous hyperplasia
San Francisco (San Francisco General Hospital) - Sertoli cell tumor
Arizona (Phoenix Memorial Hospital) - Atypical adenomatous hyperplasia and basal hyperplasia
Colorado, Denver - Basaloid carcinoma, prostate
Florida (Winter Haven Hospital) - Sclerosing adenosis (1); basal cell hyperplasia with adenosis (1)
Florida, Ocala - Adenoid basal cell tumor
Georgia, Decatur - Basal cell hyperplasia
Illinois (Heartland Regional Medical Center) - Basal cell hyperplasia
Kansas (Coffeyville Regional Medical Center) - Infiltrating adenocarcinoma, Grade II, prostate
Kansas, Manhattan - Adenoid basal cell tumor
Kentucky (University of Louisville Hospital) - Basal cell hyperplasia vs. basal cell adenoma (adenomatous hyperplasia)
Louisiana, Metairie - Adenoid basal cell tumor
Maryland (Johns Hopkins Medical Institute) - Basal cell carcinoma
Maryland (University of Maryland Medical Center) - Basal cell hyperplasia
Michigan, Grand Rapids - Sclerosing adenosis
New York (SUNY Stony Brook Residents) - Adenoid basal cell carcinoma
Ohio (MCO Pathology) - Adenocarcinoma of prostate with background adenosis and basal cell hyperplasia
Ohio, Columbus - Basal cell hyperplasia
Pennsylvania (Drexel University College of Medicine) - Basal cell hyperplasia
Pennsylvania (Memorial Medical Center) - Basal cell carcinoma
Pennsylvania (Wyoming Valley Health Care) - Basal cell hyperplasia, prostate
Texas (Scott & White Hospital) - Adenoid cystic carcinoma
Texas, Lubbock - Basal cell carcinoma
Texas, San Antonio - Basaloid carcinoma
Washington, D.C. - Prostatic adenocarcinoma, 3+3 = 6
Canada (University of Toronto) - Prostatic adenocarcinoma, Gleason score 3+3
China (Sir Run Run Shaw Hospital) - Basal cell adenoma
Italy, Naples - Florid basal cell hyperplasia
Japan (Gunma University Hospital) - Atypical basal cell hyperplasia
Japan, Chiba - Adenoid cystic carcinoma of prostate gland
Puerto Rico (University of Puerto Rico) - Basal cell hyperplasia
Qatar, Doha - Atypical adenomatous and basal cell hyperplasia
Spain (Povisa) - Basaloid carcinoma
The Netherlands, Amstelveen - Basal cell hyperplasia

Case 2 - Diagnosis:

Atypical basal cell hyperplasia, glandular subtype
T-77100, M-72120

Consultations: F. K. Mostofi, M.D., AFIP (1975): Atypical transitional metaplasia, marked.
 CTTR (1975): Fetalization of the prostate.

Case 2 - References:

Jonathan Epstein's CTTR seminar, case #18, June 4, 2000 (see his syllabus).
 Yang XJ, McEntee M, Epstein JI: Distinction Of Basaloid Carcinoma Of The Prostate From Benign Basal Cell Lesions By Using Immunohistochemistry For Bcl-2 And Ki-67. *Hum Pathol*, 1998 Dec; 29(12):1447-50.
 van de Voorde W, Baldewijns M, Lauweryns J: Florid Basal Cell Hyperplasia Of The Prostate. *Histopathology*, 1994 Apr; 24(4):341-8.
 Rioux-Leclercz NC, Epstein JI: Unusual Morphologic Patterns Of Basal Cell Hyperplasia Of The Prostate. *Am J Surg Pathol*, 2002 Feb; 26(2):237-43.
 Yang XJ, Tretiakova MS, Sengupta E, et al: Florid Basal Cell Hyperplasia Of The Prostate: A Histological, Ultrastructural And Immunohistochemical Analysis. *Hum Pathol*, 2003 May; 34(5):462-70.

Escondido - Embryonal rhabdomyosarcoma
Glendale - Embryonal rhabdomyosarcoma
Granada Hills - Rhabdoid tumor
Orange (UCI Medical Center Residents) - Rhabdomyosarcoma, embryonal type
Sacramento (UC Davis Medical Center) - Embryonal rhabdomyosarcoma
San Francisco (San Francisco General Hospital) - Alveolar rhabdomyosarcoma
Arizona (Phoenix Memorial Hospital) - Rhabdomyosarcoma
Colorado, Denver - Rhabdomyosarcoma
Florida (Winter Haven Hospital) - Embryonal rhabdomyosarcoma (2)
Florida, Ocala - Rhabdomyosarcoma
Georgia, Decatur - Embryonal rhabdomyosarcoma
Illinois (Heartland Regional Medical Center) - Embryonal rhabdomyosarcoma
Kansas (Coffeyville Regional Medical Center) - Embryonal rhabdomyosarcoma
Kansas, Manhattan - Embryonal rhabdomyosarcoma
Kentucky (University of Louisville Hospital) - Rhabdomyosarcoma
Louisiana, Metairie - Embryonal rhabdomyosarcoma
Maryland (Johns Hopkins Medical Institute) - Rhabdomyosarcoma
Maryland (University of Maryland Medical Center) - Embryonal rhabdomyosarcoma
Michigan, Grand Rapids - Rhabdomyosarcoma
New York (SUNY Stony Brook Residents) - Embryonal rhabdomyosarcoma
Ohio (MCO Pathology) - Embryonal rhabdomyosarcoma
Ohio, Columbus - Sarcoma with rhabdomyosarcomatous elements
Pennsylvania (Drexel University College of Medicine) - Embryonal rhabdomyosarcoma
Pennsylvania (Memorial Medical Center) - Rhabdomyosarcoma
Pennsylvania (Wyoming Valley Health Care) - Embryonal rhabdomyosarcoma
Texas (Scott & White Hospital) - Rhabdomyosarcoma
Texas, Lubbock - Rhabdomyosarcoma
Texas, San Antonio - Rhabdomyosarcoma
Washington, D.C. - Rhabdomyosarcoma
Canada (University of Toronto) - Rhabdomyosarcoma, embryonal subtype
China (Sir Run Run Shaw Hospital) - Embryonal rhabdomyosarcoma
Italy, Naples - Embryonal rhabdomyosarcoma
Japan (Gunma University Hospital) - Embryonal rhabdomyosarcoma
Japan, Chiba - Rhabdomyosarcoma, embryonal type
Puerto Rico (University of Puerto Rico) - Embryonal rhabdomyosarcoma
Qatar, Doha - Rhabdomyosarcoma
Spain (Povisa) - Rhabdomyosarcoma
The Netherlands, Amstelveen - Embryonal rhabdomyosarcoma

CASE 3 - Diagnosis:**Embryonal rhabdomyosarcoma, prostate****T-77100, M-89103****Case 3 - References:**

- Xia SJ, Pressey JG, Barr FG: Molecular Pathogenesis of Rhabdomyosarcoma. *Cancer Biol Ther*, 2002 Mar-Apr; 1(2):97-104.
- Raney RB, Anderson JR, Barr FG, et al: Rhabdomyosarcoma And Undifferentiated Sarcoma In The First Two Decades Of Life: A Selective Review Of Intergroup Rhabdomyosarcoma Study Group Experience And Rationale For Intergroup Rhabdomyosarcoma Study V. *J Pediatr Hematol Oncol*, 2001 May; 23(4):215-20.
- Middel P, Gunawan B, Gross AJ, et al: Chromosome Abnormalities In A Primary Adult Embryonal Rhabdomyosarcoma Of The Prostate. *Histopathology*, 2000 Oct; 37(4):378-80.
- Moroz K, Crespo P, de las Morenas A: Fine Needle Aspiration Of Prostatic Rhabdomyosarcoma. A Case Report Demonstrating The Value Of DNA Ploidy. *Acta Cytol*, 1995 Jul-Aug; 39(4):785-90.
- Lobe TE, Wiener E, Andrassy RJ, et al: The Argument For Conservative, Delayed Surgery In The Management Of Prostatic Rhabdomyosarcoma. *J Pediatr Surg*, 1996 Aug; 31(8):1084-7.

Escondido - Angiomyolipoma
Glendale - Leiomyosarcoma
Granada Hills - Sarcomatoid renal cell carcinoma
Orange (UCI Medical Center Residents) - STUMP (smooth muscle tumor of unknown malignant potential)
Sacramento (UC Davis Medical Center) - Leiomyosarcoma, low grade
San Francisco (San Francisco General Hospital) - Angiomyolipoma
Arizona (Phoenix Memorial Hospital) - Leiomyosarcoma
Colorado, Denver - Leiomyosarcoma
Florida (Winter Haven Hospital) - Mesoblastic nephroma (1); benign spindle cell neoplasm consistent with leiomyoma (1)
Florida, Ocala - Leiomyosarcoma
Georgia, Decatur - Leiomyosarcoma
Illinois (Heartland Regional Medical Center) - Smooth muscle tumor of uncertain malignant potential
Kansas (Coffeyville Regional Medical Center) - Spindle cell rhabdomyosarcoma
Kansas, Manhattan - Leiomyosarcoma
Kentucky (University of Louisville Hospital) - RCC, unclassified, sarcomatoid variant
Louisiana, Metairie - Leiomyoma
Maryland (Johns Hopkins Medical Institute) - Leiomyoma
Maryland (University of Maryland Medical Center) - Leiomyoma vs. mesoblastic nephroma
Michigan, Grand Rapids - Leiomyosarcoma
New York (SUNY Stony Brook Residents) - Leiomyosarcoma
Ohio (MCO Pathology) - Low grade leiomyosarcoma
Ohio, Columbus - Smooth muscle tumor
Pennsylvania (Drexel University College of Medicine) - Leiomyosarcoma
Pennsylvania (Memorial Medical Center) - Sarcomatoid renal cell carcinoma
Pennsylvania (Wyoming Valley Health Care) - Angiomyolipoma
Texas (Scott & White Hospital) - Leiomyoma
Texas, Lubbock - Leiomyosarcoma
Texas, San Antonio - Leiomyosarcoma
Washington, D.C. - Leiomyosarcoma
Canada (University of Toronto) - Leiomyoma
China (Sir Run Run Shaw Hospital) - Leiomyosarcoma
Italy, Naples - Leiomyoma
Japan (Gunma University Hospital) - Leiomyosarcoma
Japan, Chiba - Leiomyoma of kidney
Puerto Rico (University of Puerto Rico) - Low grade smooth muscle neoplasm of uncertain malignancy
Qatar, Doha - Leiomyosarcoma, low grade
Spain (Povisa) - Leiomyoma
The Netherlands, Amstelveen - Leiomyosarcoma

Case 4 - Diagnosis:

Low grade leiomyosarcoma, kidney
T-71000, M-88903

Case 4 - References:

Fisher KS, van Blerk PJ: Childhood Leiomyoma of Kidney. *Urology*, 1983 Jan; 21(1):74-5.
 van den Berg E, Molenaar WM, van Echten J, et al: Cytogenetic Analysis Of A Leiomyosarcoma Of The Kidney. *Cancer Genet Cytogenet*, 1994 Feb; 72(2):126-9.
 Chow LT, Chan SK, Chow WH: Fine Needle Aspiration Cytodiagnosis Of Leiomyosarcoma Of The Renal Pelvis: A Case Report With Immunohistochemical Study. *Acta Cytol*, 1994 Sep-Oct; 38(5):759-63.

Escondido - Renal cell carcinoma, papillary and clear cell types, Grade II
Glendale - Papillary renal cell carcinoma
Granada Hills - Metanephric adenoma
Orange (UCI Medical Center Residents) - Papillary renal cell carcinoma
Sacramento (UC Davis Medical Center) - Papillary renal cell carcinoma
San Francisco (San Francisco General Hospital) - Nephrogenic adenoma
Arizona (Phoenix Memorial Hospital) - Papillary renal cell carcinoma
Colorado, Denver - Nephroblastoma
Florida (Winter Haven Hospital) - Papillary renal cell carcinoma (2)
Florida, Ocala - Chromophil renal cell carcinoma
Georgia, Decatur - Papillary renal cell carcinoma
Illinois (Heartland Regional Medical Center) - Papillary renal cell carcinoma
Kansas (Coffeyville Regional Medical Center) - Papillary renal cell carcinoma
Kansas, Manhattan - Renal cell carcinoma, papillary type
Kentucky (University of Louisville Hospital) - Papillary renal cell carcinoma
Louisiana, Metairie - Papillary renal cell carcinoma
Maryland (Johns Hopkins Medical Institute) - Papillary renal cell carcinoma
Maryland (University of Maryland Medical Center) - Papillary renal cell carcinoma
Michigan, Grand Rapids - Renal cell carcinoma, chromophil
New York (SUNY Stony Brook Residents) - Papillary RCC
Ohio (MCO Pathology) - Renal cell carcinoma, papillary type
Ohio, Columbus - Papillary renal cell carcinoma
Pennsylvania (Drexel University College of Medicine) - Papillary renal cell carcinoma
Pennsylvania (Memorial Medical Center) - Papillary renal cell carcinoma
Pennsylvania (Wyoming Valley Health Care) - Chromophil renal cell carcinoma, clear cell type
Texas (Scott & White Hospital) - Papillary renal cell carcinoma
Texas, Lubbock - Papillary carcinoma
Texas, San Antonio - Papillary renal cell carcinoma
Washington, D.C. - Renal cell carcinoma, papillary
Canada (University of Toronto) - Papillary renal cell carcinoma
China (Sir Run Run Shaw Hospital) - Papillary adenocarcinoma (type I)
Italy, Naples - Papillary renal cell carcinoma
Japan (Gunma University Hospital) - Papillary renal cell carcinoma
Japan, Chiba - Papillary adenoma of right kidney
Puerto Rico (University of Puerto Rico) - Renal cell carcinoma, chromophil type
Qatar, Doha - Papillary renal cell carcinoma
Spain (Povisa) - Papillary (chromophil) carcinoma
The Netherlands, Amstelveen - Papillary renal cell carcinoma, type I

Case 5 - Diagnosis:

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

Case 5 - References:

- Delahunt B, Eble JN, McCredie MR, et al: Morphologic Typing Of Papillary Renal Cell Carcinoma: Comparison Of Growth Kinetics And Patient Survival In 66 Cases. *Hum Pathol*, 2001 Jun; 32(6):590-5.
 Fuzesi L, Gunawan B, Bergmann F, et al: Papillary Renal Cell Carcinoma With Clear Cell Cytomorphology And Chromosomal Loss Of 3p. *Histopathology*, 1999 Aug; 35(2):157-61.
 Daniel L, Zattara-Cannoni H, Lechevallier E, Pellissier JF: Association Of A Renal Papillary Carcinoma With A Low Grade Tumour Of The Collecting Ducts. *J Clin Pathol*, 2001 Aug; 54(8):637-9.
 Val-Bernal JF, Mayorga M, Garcia-Arranz P, Gomez-Roman JJ: Mucin Secretion In Papillary (Chromophil) Renal Cell Carcinoma. *Am J Surg Pathol*, 1998 Aug; 22(8):1037-40.
 Amin MB, Corless CL, Renshaw AA, et al: Papillary (Chromophil) Renal Cell Carcinoma: Histomorphologic Characteristics And Evaluation Of Conventional Pathologic Prognostic Parameters In 62 Cases. *Am J Surg Pathol*, 1997 Jun; 21(6):621-35.
 Renshaw AA, Corless CL: Papillary Renal Cell Carcinoma: Histology And Immunohistochemistry. *Am J Surg Pathol*, 1995 Jul; 19(7):842-9.

Escondido - Collecting duct carcinoma
Glendale - Renal cell carcinoma
Granada Hills - Oncocytoma
Orange (UCI Medical Center Residents) - Eosinophilic variant, renal cell carcinoma
Sacramento (UC Davis Medical Center) - Chromophobe renal cell carcinoma
San Francisco (San Francisco General Hospital) - Renal cell carcinoma, granular cell type
Arizona (Phoenix Memorial Hospital) - Renal cell carcinoma, granular variant
Colorado, Denver - Epithelioid angiomyolipoma
Florida (Winter Haven Hospital) - Oncocytoma (1); renal cell carcinoma, granular cell type (1)
Florida, Ocala - Chromophobe renal cell carcinoma
Georgia, Decatur - Chromophobe renal cell carcinoma
Illinois (Heartland Regional Medical Center) - Renal cell carcinoma
Kansas (Coffeyville Regional Medical Center) - Renal cell carcinoma (granular cell)
Kansas, Manhattan - Renal cell carcinoma, collecting duct variant
Kentucky (University of Louisville Hospital) - RCC, granular cell type
Louisiana, Metairie - Clear cell renal cell carcinoma
Maryland (Johns Hopkins Medical Institute) - Juxtaglomerular cell tumor
Maryland (University of Maryland Medical Center) - Renal cell carcinoma
Michigan, Grand Rapids - Renal cell carcinoma, chromophobe
New York (SUNY Stony Brook Residents) - Chromophobe RCC
Ohio (MCO Pathology) - Renal cell carcinoma, chromophobe type
Ohio, Columbus - Chromophobe renal cell carcinoma
Pennsylvania (Drexel University College of Medicine) - Oncocytoma
Pennsylvania (Memorial Medical Center) - Renal cell carcinoma, epithelioid angiomyolipoma
Pennsylvania (Wyoming Valley Health Care) - Chromophobe renal cell carcinoma
Texas (Scott & White Hospital) - Oncocytoma
Texas, Lubbock - Chromophobe carcinoma
Texas, San Antonio - Clear cell (conventional) renal cell carcinoma
Washington, D.C. - Renal cell carcinoma, granular
Canada (University of Toronto) - Conventional renal cell carcinoma versus chromophobe carcinoma
China (Sir Run Run Shaw Hospital) - Oncocytoma
Italy, Naples - Conventional (clear cell) renal cell carcinoma
Japan (Gunma University Hospital) - Renal cell carcinoma
Japan, Chiba - Oncocytoma of kidney
Puerto Rico (University of Puerto Rico) - Renal cell carcinoma, chromophobe type versus oncocytoma
Qatar, Doha - Conventional renal cell carcinoma
Spain (Povisa) - Granular cell tumor suggesting chromophobe carcinoma
The Netherlands, Amstelveen - Oncocytic renal tumor?

Case 6 - Diagnosis:

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

Case 6 - References:

- Yamazaki K, Sakamoto M, Ohta T, et al: Overexpression of KIT in Chromophobe Renal Cell Carcinoma. *Oncogene*, 2003 Feb 13; 22(6):847-52.
- Kuroda N, Toi M, Hiroi M, Enzan H: Review of Chromophobe Renal Cell Carcinoma With Focus on Clinical and Pathobiological Aspects. *Histol Histopathol*, 2003 Jan; 18(1):165-71.
- Onishi T, Oishi Y, Yanada S, et al: Prognostic Implications of Histological Features in Patients With Chromophobe Cell Renal Carcinoma. *BJU Int*, 2002 Oct; 90(6):529-32.
- Gong Y, Sun X, Haines GK 3rd, Pins MR: Renal Cell Carcinoma, Chromophobe Type, With Collecting Duct Carcinoma and Sarcomatoid Components. *Arch Pathol Lab Med*, 2003 Jan; 127(1):e38-40.

Escondido - Transitional cell carcinoma, Grade III, infiltrating renal parenchyma
Glendale - Collecting duct carcinoma
Granada Hills - Medullary carcinoma
Orange (UCI Medical Center Residents) - Papillary renal cell carcinoma
Sacramento (UC Davis Medical Center) - Collecting duct carcinoma
San Francisco (San Francisco General Hospital) - Pheochromocytoma
Arizona (Phoenix Memorial Hospital) - Collecting duct carcinoma
Colorado, Denver - Malignant melanoma
Florida (Winter Haven Hospital) - Collecting duct carcinoma (2)
Florida, Ocala - Collecting duct carcinoma
Georgia, Decatur - Medullary carcinoma
Illinois (Heartland Regional Medical Center) - Medullary carcinoma
Kansas (Coffeyville Regional Medical Center) - Transitional cell carcinoma, high grade
Kansas, Manhattan - Renal cell carcinoma, granular pattern
Kentucky (University of Louisville Hospital) - Collecting duct carcinoma
Louisiana, Metairie - Collecting duct carcinoma
Maryland (Johns Hopkins Medical Institute) - Collecting duct carcinoma
Maryland (University of Maryland Medical Center) - Chromophobe renal cell carcinoma
Michigan, Grand Rapids - Neuroendocrine carcinoma, high grade
New York (SUNY Stony Brook Residents) - Collecting duct carcinoma
Ohio (MCO Pathology) - Collecting duct carcinoma
Ohio, Columbus - Granular renal cell carcinoma
Pennsylvania (Drexel University College of Medicine) - Poorly-differentiated transitional cell carcinoma
Pennsylvania (Memorial Medical Center) - Chromophobe renal cell carcinoma
Pennsylvania (Wyoming Valley Health Care) - Chromophil renal cell carcinoma, chromophobe cell type
Texas (Scott & White Hospital) - Collecting duct carcinoma
Texas, Lubbock - Medullary carcinoma
Texas, San Antonio - Medullary carcinoma
Washington, D.C. - Collecting duct carcinoma
Canada (University of Toronto) - Papillary renal cell carcinoma
China (Sir Run Run Shaw Hospital) - Nephroblastoma
Italy, Naples - Renal medullary carcinoma
Japan (Gunma University Hospital) - Collecting duct carcinoma
Japan, Chiba - Collecting duct carcinoma of kidney
Puerto Rico (University of Puerto Rico) - Collecting duct carcinoma
Qatar, Doha - Collecting duct carcinoma of kidney
Spain (Povisa) - Carcinoma of the collecting ducts
The Netherlands, Amstelveen - Collecting duct carcinoma

Case 7 - Diagnosis:

Collecting duct carcinoma, kidney
T-71000, M-81203

Outside consultation (29455): Richard J. Cote, M.D. (Kenneth Norris Jr. Cancer Hospital): Collecting Duct Carcinoma of the kidney (Bellini duct carcinoma.)

Case 7 - References:

Polascik TJ, Bostwick DG, Cairns P: Molecular Genetics and Histopathologic Features of Adult Distal Nephron Tumors. *Urology*, 2002 Dec; 60(6):941-6. Review.
 Fleming S, Lewi HJ: Collecting Duct Carcinoma of the Kidney. *Histopathology*, 1986 Nov; 11(11):1131-41.
 Kennedy SM, Merino MJ, Linehan WM, et al: Collecting Duct Carcinoma of the Kidney. *Hum Pathol*, 1990 Apr; 21(4):449-56.
 Srigley JR, Eble JN: Collecting Duct Carcinoma Of Kidney. *Semin Diagn Pathol*, 1998 Feb; 15(1):54-67.
 Nguyen GK, Schumann GB: Cytopathology Of Renal Collecting Duct Carcinoma In Urine Sediment. *Diagn Cytopathol*, 1997 May; 16(5):446-9.
 Gong Y, Sun X, Haines GK, Pins MR: Renal Cell Carcinoma, Chromophobe Type, With Collecting Duct Carcinoma And Sarcomatoid Components. *Arch Pathol Lab Med*, 2003 Jan; 127(1):38-40.

Escondido - Nephroblastoma
Glendale - Papillary renal cell carcinoma
Granada Hills - Nephroblastomatosis
Orange (UCI Medical Center Residents) - Wilms' tumor (monophasic)
Sacramento (UC Davis Medical Center) - Wilms' tumor, favorable histology
San Francisco (San Francisco General Hospital) - Nephroblastoma
Arizona (Phoenix Memorial Hospital) - Wilms' tumor
Colorado, Denver - Wilms' tumor
Florida (Winter Haven Hospital) - Nephroblastoma (2)
Florida, Ocala - Wilms' tumor
Georgia, Decatur - Wilms' tumor, epithelial predominant, favorable histology
Illinois (Heartland Regional Medical Center) - Wilms' tumor
Kansas (Coffeyville Regional Medical Center) - Nephroblastoma
Kansas, Manhattan - Wilms' tumor
Kentucky (University of Louisville Hospital) - Wilms' tumor, monomorphic
Louisiana, Metairie - Wilms' tumor
Maryland (Johns Hopkins Medical Institute) - Wilms' tumor
Maryland (University of Maryland Medical Center) - Wilms' tumor
Michigan, Grand Rapids - Nephroblastomatosis
New York (SUNY Stony Brook Residents) - Metanephric adenoma
Ohio (MCO Pathology) - Nephroblastomatosis
Ohio, Columbus - Wilms' tumor (nephroblastoma)
Pennsylvania (Drexel University College of Medicine) - Nephroblastoma
Pennsylvania (Memorial Medical Center) - Wilms' tumor
Pennsylvania (Wyoming Valley Health Care) - Nephroblastoma, partially differentiated
Texas (Scott & White Hospital) - Wilms' tumor, favorable histology
Texas, Lubbock - Wilms' tumor
Texas, San Antonio - Wilms' tumor
Washington, D.C. - Wilms' tumor
Canada (University of Toronto) - Nephroblastoma
China (Sir Run Run Shaw Hospital) - Metanephric adenoma
Italy, Naples - Wilms' tumor, favorable histology
Japan (Gunma University Hospital) - Nephroblastoma, glomerular-tubular
Japan, Chiba - Nephroblastoma of kidney
Puerto Rico (University of Puerto Rico) - Wilms' tumor, favorable histology
Qatar, Doha - Nephroblastoma
Spain (Povisa) - Nephroblastoma
The Netherlands, Amstelveen - Metanephric adenoma

Case 8 - Diagnosis:

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

Director's note: Some slides also show nephrogenic rests.

Case 8 - References:

- Kullendorff CM, Soller M, Wiebe T, Mertens F: Cytogenetic Findings and Clinical Course in a Consecutive Series Of Wilms' Tumors. *Cancer Genet Cytogenet*, 2003 Jan 1; 140(1):82-7.
- Morison IM, Becroft DM, Reeve AE: Loss of Imprinting of Insulin-Like Growth Factor-II (IGF2) Gene in Distinguishing Specific Biologic Subtypes of Wilms' Tumors. *J Natl Cancer Inst*, 2002 Dec 4; 94(23):1809; Author reply 1809-10.
- Wynn T, Ruymann FB, King DR, Luquette M: Second Pregnancy-Associated Wilms' Tumor 16 Years After the First One. *Med Pediatr Oncol*, 2003 Feb; 40(2):120-2.
- Takahashi M, Yang XJ, Lavery TT, et al: Gene Expression Profiling of Favorable Histology Wilms' Tumors and Its Correlation With Clinical Features. *Cancer Res*, 2002 Nov 15; 62(22):6598-605.
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Escondido - Cystitis follicularis
Glendale - Polypoid cystitis
Granada Hills - Carcinoma in-situ
Orange (UCI Medical Center Residents) - Urothelial carcinoma in-situ
Sacramento (UC Davis Medical Center) - Transitional cell carcinoma in-situ
San Francisco (San Francisco General Hospital) - Fibroepithelial polyp
Arizona (Phoenix Memorial Hospital) - Transitional cell carcinoma in-situ
Colorado, Denver - Carcinoma in-situ
Florida (Winter Haven Hospital) - Carcinoma in-situ (1); Urothelial carcinoma in-situ (1)
Florida, Ocala - Transitional cell carcinoma in-situ
Georgia, Decatur - Transitional cell carcinoma in-situ
Illinois (Heartland Regional Medical Center) - Focal non-papillary transitional cell carcinoma in-situ; chronic cystitis
Kansas (Coffeyville Regional Medical Center) - Focal carcinoma in-situ, urinary bladder
Kansas, Manhattan - Urothelial carcinoma in-situ
Kentucky (University of Louisville Hospital) - High grade flat dysplasia/CIS
Louisiana, Metairie - Transitional cell carcinoma in-situ
Maryland (Johns Hopkins Medical Institute) - Flat CIS
Maryland (University of Maryland Medical Center) - High grade dysplasia
Michigan, Grand Rapids - High grade urothelial carcinoma in-situ
New York (SUNY Stony Brook Residents) - TCC - CIS
Ohio (MCO Pathology) - Transitional cell carcinoma in-situ and chronic cystitis
Ohio, Columbus - Urothelial carcinoma in-situ
Pennsylvania (Drexel University College of Medicine) - High grade urothelial cell carcinoma in-situ
Pennsylvania (Memorial Medical Center) - Angiosarcoma
Pennsylvania (Wyoming Valley Health Care) - Urothelial carcinoma in-situ
Texas (Scott & White Hospital) - Rule out amyloidosis
Texas, Lubbock - Carcinoma in-situ
Texas, San Antonio - Carcinoma in-situ
Washington, D.C. - Urothelial CIS
Canada (University of Toronto) - Papillary cystitis
China (Sir Run Run Shaw Hospital) - Chronic inflammation with dysplasia
Italy, Naples - Carcinoma in-situ
Japan (Gunma University Hospital) - Carcinoma in-situ, urinary bladder
Japan, Chiba - Carcinoma in-situ of urinary bladder
Puerto Rico (University of Puerto Rico) - Malakoplakia
Qatar, Doha - Transitional cell carcinoma in-situ of urinary bladder
Spain (Povisa) - In-situ urothelial carcinoma
The Netherlands, Amstelveen - Urothelial carcinoma in-situ

Case 9 - Diagnosis:

Transitional (urethelial) carcinoma in-situ, bladder
T-74000, M-81202

Case 9 - References:

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 McKenney JK, Gomez JA, Desai S, et al: Morphologic Expressions Of Urothelial Carcinoma In-Situ: A Detailed Evaluation Of Its Histologic Patterns With Emphasis On Carcinoma In-Situ With Microinvasion. *Am J Surg Pathol*, 2001 Mar; 25(3):356-62.

Escondido - Transitional cell carcinoma, Grade I, papillary
Glendale - Papillary transitional cell carcinoma
Granada Hills - Transitional cell carcinoma, low grade
Orange (UCI Medical Center Residents) - Papillary urothelial carcinoma, low grade
Sacramento (UC Davis Medical Center) - Urothelial cell carcinoma, grade II
San Francisco (San Francisco General Hospital) - Low grade urothelial carcinoma with AVM
Arizona (Phoenix Memorial Hospital) - Papillary transitional cell carcinoma, non-invasive, Grade II/III
Colorado, Denver - Papillary urothelial carcinoma
Florida (Winter Haven Hospital) - Papillary grade II TCC (transitional cell carcinoma) (1); Non-invasive papillary urothelial carcinoma, Grade II (1)
Florida, Ocala - Papillary urothelial carcinoma
Georgia, Decatur - Papillary transitional cell carcinoma
Illinois (Heartland Regional Medical Center) - Papillary transitional cell carcinoma, low grade (Grade I), non-invasive
Kansas (Coffeyville Regional Medical Center) - Papillary transitional cell carcinoma, low grade, ureter
Kansas, Manhattan - Papillary urothelial neoplasia, LMP
Kentucky (University of Louisville Hospital) - Transitional papillary carcinoma, low grade, non-invasive
Louisiana, Metairie - Papillary transitional cell carcinoma
Maryland (Johns Hopkins Medical Institute) - High grade in-situ papillary urothelial carcinoma
Maryland (University of Maryland Medical Center) - Non-invasive papillary urothelial cell carcinoma, Grade I
Michigan, Grand Rapids - Low grade papillary urothelial carcinoma
New York (SUNY Stony Brook Residents) - Papillary TCC, low grade, non-invasive
Ohio (MCO Pathology) - Low grade papillary transitional cell carcinoma, ureter
Ohio, Columbus - Papillary transitional cell carcinoma
Pennsylvania (Drexel University College of Medicine) - Low grade papillary urothelial cell carcinoma, non-invasive
Pennsylvania (Memorial Medical Center) - Transitional cell carcinoma
Pennsylvania (Wyoming Valley Health Care) - Papillary urothelial carcinoma, low grade
Texas (Scott & White Hospital) - Papillary transitional cell carcinoma, no invasion
Texas, Lubbock - Grade II/I-III papillary carcinoma
Texas, San Antonio - Papillary urothelial carcinoma
Washington, D.C. - Urothelial carcinoma, papillary, low grade
Canada (University of Toronto) - Low grade papillary urothelial carcinoma
China (Sir Run Run Shaw Hospital) - Urothelial (transitional cell) carcinoma
Italy, Naples - Low grade papillary urothelial carcinoma
Japan (Gunma University Hospital) - Urothelial carcinoma, low grade
Japan, Chiba - Non-invasive papillary urothelial carcinoma, high grade, of ureter
Puerto Rico (University of Puerto Rico) - Urothelial carcinoma, low grade
Qatar, Doha - Papillary transitional cell carcinoma, low grade
Spain (Povisa) - Papillary urothelial carcinoma
The Netherlands, Amstelveen - Non-invasive papillary urothelial carcinoma, high grade

Case 10 - Diagnosis:

Papillary transitional cell (urothelial) carcinoma, ureter
T-73000, M-81303

Director's note: Due to slide variance, some sets may have only shown high grade urothelial dysplasia. (DRC)

Case 10 - References:

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 Assimos DG, Hall MC, Martin JH: Ureterscopic Management Of Patients With Upper Tract Transitional Cell Carcinoma. *Urol Clin North Am*, 2000 Nov; 27(4):751-60.
 Li M, Cannizzaro LA: Identical Clonal Origin Of Synchronous And Metachronous Low-Grade, Noninvasive Papillary Transitional Cell Carcinomas Of The Urinary Tract. *Hum Pathol*, 1999 Oct; 30(10):1197-200.