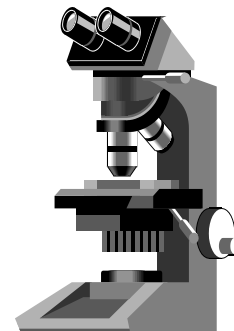


CALIFORNIA
TUMOR TISSUE REGISTRY

GENITOURINARY PATHOLOGY

Minutes – Subscription B

September 2014



SUGGESTED READING (General Topics from Recent Literature):

- Smith LB. Nodular Lymphocyte Predominant Hodgkin lymphoma: Diagnostic Pearls and Pitfalls. *Arch Pathol Lab Med* 2010;134:1434-1439.
- Ly A, Mills AM, et al. Atypical Leiomyomas of the Uterus: A Clinicopathologic Study of 51 Cases. *Am J Surg Pathol* 2013;37:643-649.
- Deshpande V, Zen Y, et al. Consensus Statement on the Pathology of IgG4-Related Disease. *Mod Pathol* 2012;25:1181-1192.
- Doyle LA, Fletcher CDM. Metastasizing “Benign” Cutaneous Fibrous Histiocytoma: A Clinicopathologic Analysis of 16 Cases. *Am J Surg Pathol* 2013;37:484-495.
- Sweeney RT, Zhang B, et al. Desktop Transcriptome Sequencing From Archival Tissue to Identify Clinically Relevant Translocations. *Am J Surg Pathol* 2013;37:796-803.

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

CTTR Subscription B

September 2014

Case 1:

High grade malignant neoplasm, most consistent with urothelial (transitional cell) carcinoma, urethra

Case 2:

Squamous cell carcinoma, foreskin

Case 3:

Mature cystic teratoma, testis

Case 4:

Malignant mixed malignant germ cell tumor (components include teratoma, embryonal carcinoma, seminoma, and yolk sac tumor), testis

Case 5:

Choriocarcinoma, testis

Case 6:

Basal cell hyperplasia, prostate

Case 7:

Stromal tumor of unknown malignant potential, prostate

Case 8:

Nephroblastoma (Wilms tumor), kidney

Case 9:

Papillary renal cell carcinoma, kidney

Case 10:

Epithelioid angiosarcoma, kidney

Case No. 1, Accession No. 8659

September 2014

San Diego (Naval Medical Center) - Angiosarcoma
San Jose - Epithelioid sarcoma
Delaware (Armed Forces Medical Examiner System) - Epithelioid hemangioendothelioma
Georgia, Atlanta - Poorly differentiated squamous cell carcinoma
Illinois (Heartland Regional Medical Center) - Spindle cell malignant neoplasm, favor angiosarcoma
Maryland (University of Maryland Medical Center) - Urothelial carcinoma, high grade
Maryland (Walter Reed NMMC) - Angiosarcoma
Ohio (Cleveland Clinic) - Hemangioendothelioma
Ohio (University of Toledo Medical Center Residents) - Sarcomatoid carcinoma
Oregon (Oregon Health and Service University Resident Group) - Epithelioid malignancy, favoring angiosarcoma
Puerto Rico (University of Puerto Rico) - Epithelioid sarcoma/epithelioid angiosarcoma vs rule out acantholytic squamous cell carcinoma
Tennessee, Knoxville - High grade urothelial carcinoma
Texas, Crystal Beach - Transitional carcinoma
Texas, Lubbock - Poorly differentiated squamous cell carcinoma
Canada (Pasqua Hospital) - Epithelioid hemangioendothelioma
Canada (Royal Alexandra Hospital) - Epithelioid hemangioendothelioma
Japan (Asahi General Hospital) - Epithelioid hemangioendothelioma
Japan, Tokyo - Squamous cell carcinoma
Japan (University of Yamanashi) - Spindle cell carcinoma

Case 1 – Diagnosis:

High grade malignant neoplasm, most consistent with urothelial (transitional cell) carcinoma, urethra

Case 1 - References:

Protocol for the examination of specimens from patients with carcinoma of the urethra. *Arch Pathol Lab Med* 2010; Mar;134(3): p345-50. McKenney JK; Amin MB, et al.
Penile and urethral cancers are not common entities. Preface. *Urol Clin North Am* 2010; Aug;37(3): pxi. Mydlo JH.
Fine needle aspiration of urethral recurrence of urothelial carcinoma after radical cystectomy presenting as a perineal mass: a case report. *Acta Cytol* 2008; Jan-Feb;52(1): p94-8. Al-Agha OM; Khader SN, et al.
Management of adenocarcinoma of the female urethra: case report and brief review. *Can J Urol* 2010; Oct;17(5): p5404-7. Ouzaid I; Hermieu JF, et al.
Single-institution experience with primary tumours of the male urethra. *BJU Int* 2008; Apr;101(8): p964-8. Gillitzer R; Hampel C, et al.

Case No. 2, Accession No. 31960

September 2014

San Diego (Naval Medical Center) - Squamous cell carcinoma
San Jose - Squamous cell carcinoma
Delaware (Armed Forces Medical Examiner System) - Squamous cell carcinoma
Georgia, Atlanta - Keratinizing squamous cell carcinoma
Illinois (Heartland Regional Medical Center) - Squamous cell carcinoma
Maryland (University of Maryland Medical Center) - Keratinizing invasive squamous cell carcinoma
Maryland (Walter Reed NMMC) - Squamous cell carcinoma
Ohio (Cleveland Clinic) - Invasive keratinizing squamous cell carcinoma
Ohio (University of Toledo Medical Center Residents) - Keratinizing squamous cell carcinoma
Oregon (Oregon Health and Service University Resident Group) - Squamous cell carcinoma
Puerto Rico (University of Puerto Rico) - Squamous cell carcinoma, well differentiated, keratinizing
Tennessee, Knoxville - Squamous cell carcinoma
Texas, Crystal Beach - Squamous cell carcinoma
Texas, Lubbock - Squamous cell carcinoma, well differentiated

Canada (Pasqua Hospital) - Poorly differentiated squamous cell carcinoma
Canada (Royal Alexandra Hospital) - Squamous cell carcinoma
Japan (Asahi General Hospital) - Squamous cell carcinoma
Japan, Tokyo - Squamous cell carcinoma
Japan (University of Yamanashi) - Squamous cell carcinoma

Case 2 - Diagnosis:

Squamous cell carcinoma, foreskin

Case 2 - References:

[The foreskin and squamous-cell carcinoma of the penis]. *Ned Tijdschr Geneesk* 2005; Oct 29;149(44): p2450-3. Horenblas S; Kroon BK.
Pseudohyperplastic squamous cell carcinoma of the penis associated with lichen sclerosus. An extremely well-differentiated, nonverruciform neoplasm that preferentially affects the foreskin and is frequently misdiagnosed: a report of 10 cases of a distinctive clinicopathologic entity. *Am J Surg Pathol* 2004; Jul;28(7): p895-900. Cubilla AL; Velazquez EF; Young RH.
Limitations in the interpretation of biopsies in patients with penile squamous cell carcinoma. *Int J Surg Pathol* 2004; Apr;12(2): p139-46. Velazquez EF; Barreto JE, et al.
Squamous cell carcinoma of the penis following penile trauma. *J Urol* 2004; Jan;171(1): p341-2. Thomas MA; Nangia AK.
Penile carcinoma originating from lichen planus on glans penis. *Urology* 2008; May;71(5): p816-7. Hoshi A; Usui Y; Terachi T.
Squamous cell carcinoma of the penis in a man with a human papilloma virus 31 infection. *J Dermatol* 2005; Jul;32(7): p581-4. Hama N; Ohtsuka T; Yamazaki S.

Case No. 3, Accession No. 18560

September 2014

San Diego (Naval Medical Center) - Teratoma
San Jose - Teratoma
Delaware (Armed Forces Medical Examiner System) - Teratoma
Georgia, Atlanta - Teratoma
Illinois (Heartland Regional Medical Center) - Teratoma
Maryland (University of Maryland Medical Center) - Mature teratoma
Maryland (Walter Reed NMMC) - Teratoma
Ohio (Cleveland Clinic) - Teratoma
Ohio (University of Toledo Medical Center Residents) - Mature teratoma
Oregon (Oregon Health and Service University Resident Group) - Teratoma
Puerto Rico (University of Puerto Rico) - Mature teratoma
Tennessee, Knoxville - Mature cystic teratoma
Texas, Crystal Beach - Teratoma
Texas, Lubbock - Mature cystic teratoma
Canada (Pasqua Hospital) - Teratoma
Canada (Royal Alexandra Hospital) - Teratoma
Japan (Asahi General Hospital) - Teratoma
Japan, Tokyo - Dermoid cyst
Japan (University of Yamanashi) - Mature teratoma

Case 3 - Diagnosis:

Mature cystic teratoma, testis

Case 3 - References:

Synchronous epidermoid cyst and mature teratoma of the testis: an unusual association. *Urol Int* 2007;78(4): p364-6. Huyghe E; Mazerolles C, et al.
Epidermoid cyst and teratoma of the testis: sonographic and histologic similarities. *J Ultrasound Med* 2005; Oct;24(10): p1403-9; quiz 1410-1. Maizlin ZV; Belenky A, et al.

A giant testicular teratoma. *Saudi Med J* 2007; Mar;28(3): p465-7. Zangana AM; Razak AB.
 Testicular teratoma presenting as a transilluminating scrotal mass. *Urology* 2006; Jun;67(6): p1290.e3-5. Lin HC; Clark JY.
 Gonadal teratomas: a review and speculation. *Adv Anat Pathol* 2004; Jan;11(1): p10-23. Ulbright TM.
 Adult and pediatric testicular teratoma. *Urol Clin North Am* 2007; May;34(2): p245-51; abstract x. Carver BS; Al-Ahmadie H; Sheinfeld J.

Case No. 4, Accession No. 19305

September 2014

San Diego (Naval Medical Center) - Mixed germ cell tumor
San Jose - Mixed germ cell tumor
Delaware (Armed Forces Medical Examiner System) - Mixed germ cell tumor (teratoma, seminoma, yolk sac tumor)
Georgia, Atlanta - Malignant mixed germ cell tumor (teratoma, embryonal carcinoma, yolk sac tumor)
Illinois (Heartland Regional Medical Center) - Malignant mixed germ cell neoplasm (predominantly teratoma and embryonal carcinoma)
Maryland (University of Maryland Medical Center) - Mixed germ cell tumor
Maryland (Walter Reed NMMC) - Mixed germ cell tumor
Ohio (Cleveland Clinic) - Malignant mixed teratoma
Ohio (University of Toledo Medical Center Residents) - Mixed germ cell tumor
Oregon (Oregon Health and Service University Resident Group) - Mixed germ cell tumor, with embryonal component
Puerto Rico (University of Puerto Rico) - Mixed germ cell tumor/mature teratoma
Tennessee, Knoxville - Embryonal carcinoma, yolk sac tumor and teratoma
Texas, Crystal Beach - Teratocarcinoma with embryonal carcinoma
Texas, Lubbock - Teratoma 50% and embryonal carcinoma 50%
Canada (Pasqua Hospital) - Teratoma and yolk sac tumor
Canada (Royal Alexandra Hospital) - Mixed germ cell tumor (teratoma, yolk sac and embryonal)
Japan (Asahi General Hospital) - Teratoma with embryonal carcinoma
Japan, Tokyo - Teratocarcinoma
Japan (University of Yamanashi) - Embryonal carcinoma with mature teratoma

Case 4 - Diagnosis:

Malignant mixed malignant germ cell tumor (components include teratoma, embryonal carcinoma, seminoma, and yolk sac tumor), testis. **Director's note:** Not all study set slides contained all the components ... drc).

Case 4 - References:

Spontaneous regression of testicular germ cell tumors: an analysis of 42 cases. *Am J Surg Pathol* 2006; Jul;30(7): p858-65. Balzer BL; Ulbright TM
 Gonadal teratomas: a review and speculation. *Adv Anat Pathol* 2004; Jan;11(1): p10-23. Ulbright TM.
 Update on testis tumours. *Pathology* 2012; Aug;44(5): p419-26. Berney DM.
 An overview of testicular germ cell tumors. *Arch Pathol Lab Med* 2007; Aug;131(8): p1267-80. Bahrami A; Ro JY; Ayala AG.
 Mixed or non-seminomatous germ-cell tumors: ESMO clinical recommendations for diagnosis, treatment and follow-up. *Ann Oncol* 2008; May;19 Suppl 2:ii52-4. Huddart R; Kataja V.

Case No. 5, Accession No. 15998

September 2014

San Diego (Naval Medical Center) - Choriocarcinoma
San Jose - Choriocarcinoma
Delaware (Armed Forces Medical Examiner System) - Embryonal carcinoma
Georgia, Atlanta - Choriocarcinoma
Illinois (Heartland Regional Medical Center) - Choriocarcinoma
Maryland (University of Maryland Medical Center) - Choriocarcinoma
Maryland (Walter Reed NMMC) - Choriocarcinoma

Ohio (Cleveland Clinic) - Choriocarcinoma
Ohio (University of Toledo Medical Center Residents) - Choriocarcinoma
Oregon (Oregon Health and Service University Resident Group) - Choriocarcinoma
Puerto Rico (University of Puerto Rico) - Choriocarcinoma
Tennessee, Knoxville - Choriocarcinoma
Texas, Crystal Beach - Mixed germ cell tumor (seminoma, choriocarcinoma)
Texas, Lubbock - Choriocarcinoma
Canada (Pasqua Hospital) - Choriocarcinoma
Canada (Royal Alexandra Hospital) - Choriocarcinoma
Japan (Asahi General Hospital) - Choriocarcinoma
Japan, Tokyo - Choriocarcinoma
Japan (University of Yamanashi) - Choriocarcinoma

Case 5 - Diagnosis:

Choriocarcinoma, testis

Case 5 - References:

Ten testicular trapdoors. *Histopathology* 2008; Dec;53(6): p728-39. Rajab R; Berney DM.
 Pure choriocarcinoma of testis with rare gingival and skin metastases. *Singapore Med J* 2007; Mar;48(3): pe77-80.
 Bhatia K; Vaid AK, et al.
 Immature teratoma with choriocarcinoma-like lesion of testis: case report of an unusual presentation. *Indian J Pathol Microbiol* 2007; Apr;50(2): p394-6. Konar A; Biswas S, et al.
 Pure choriocarcinoma of testis with tumor-infiltrating lymphocytes and granulomas. *Clin Immunol.* 2000; Nov-Dec; 10(6):323-6. Go JH.
 Clinicopathologic analysis of choriocarcinoma as a pure or predominant component of germ cell tumor of the testis. *Am J Surg Pathol* 2014; Jan;38(1): p111-8. Alvarado-Cabrero I; Hernandez-Toriz N; Paner GP.

Case No. 6, Accession No. 23996

September 2014

San Diego (Naval Medical Center) - Benign prostatic hyperplasia
San Jose - Basal cell hyperplasia
Delaware (Armed Forces Medical Examiner System) - Prostate adenocarcinoma
Georgia, Atlanta - Basal cell hyperplasia
Illinois (Heartland Regional Medical Center) - Basal cell hyperplasia
Maryland (University of Maryland Medical Center) - Well differentiated basal cell carcinoma
Maryland (Walter Reed NMMC) - Diffuse adenosis
Ohio (Cleveland Clinic) - Benign prostatic hyperplasia
Ohio (University of Toledo Medical Center Residents) - Benign prostate (post-atrophic hyperplasia)
Oregon (Oregon Health and Service University Resident Group) - Florid basal cell hyperplasia
Puerto Rico (University of Puerto Rico) - Atypical basal hyperplasia, rule out adenocarcinoma of prostate
Tennessee, Knoxville - Hyperplasia of mesonephric remnants
Texas, Crystal Beach - Prostatic duct adenocarcinoma
Texas, Lubbock - Stromal hyperplasia and chronic prostatitis
Canada (Pasqua Hospital) - Basal cell hyperplasia
Canada (Royal Alexandra Hospital) - Basal cell hyperplasia
Japan (Asahi General Hospital) - Hyperplasia of mesonephric remnants
Japan, Tokyo - Adenocarcinoma, prostate
Japan (University of Yamanashi) - Basal cell hyperplasia (1); Nodular hyperplasia (1)

Case 6 - Diagnosis:

Basal cell hyperplasia, prostate

Case 6 - References:

Prostate basal cell lesions can be negative for basal cell keratins: a diagnostic pitfall. *Anal Quant Cytol Histol* 2006; Jun;28(3): p125-9. Zhou M; Magi-Galluzzi C; Epstein JI.

Prostatic basal cells in the peripheral and transitional zones: zonal variation in morphology and in immunophenotype. *Prostate* 2007; Nov 1;67(15): p1686-92. Garcia FU; Haber MM; Chen X

Prostate basal cell lesions can be negative for basal cell keratins: a diagnostic pitfall. *Anal Quant Cytol Histol* 2006; Jun;28(3): p125-9. Zhou M; Magi-Galluzzi C; Epstein JI.

Basal cell hyperplasia: an unusual diagnostic dilemma on prostate needle biopsies. *Hum Pathol* 2005; May;36(5): p480-5. Hosler GA; Epstein JI.

Basal cell proliferations of the prostate other than usual basal cell hyperplasia: a clinicopathologic study of 23 cases, including four carcinomas, with a proposed classification. *Am J Surg Pathol* 2004; Oct;28(10): p1289-98. McKenney JK; Amin MB; Srigley JR; Jimenez RE; Ro JY; Grignon DJ; Young RH

Case No. 7, Accession No. 30597

September 2014

San Diego (Naval Medical Center) - Stromal tumor of unknown malignant potential

San Jose - Prostatic stromal proliferation of uncertain malignant potential, rule out solitary fibrous tumor

Delaware (Armed Forces Medical Examiner System) - Solitary fibrous tumor

Georgia, Atlanta - Stromal tumor of uncertain malignant potential

Illinois (Heartland Regional Medical Center) - Leiomyoma

Maryland (University of Maryland Medical Center) - Spindle cell lesion

Maryland (Walter Reed NMMC) - Inflammatory myofibroblastic tumor

Ohio (Cleveland Clinic) - Prostatic stromal proliferative of uncertain malignant potential

Ohio (University of Toledo Medical Center Residents) - Spindle cell lesion, rule out solitary fibrous tumor

Oregon (Oregon Health and Service University Resident Group) - Stromal nodule

Puerto Rico (University of Puerto Rico) - Prostatic stromal tumor of undetermined potential vs. leiomyoma

Tennessee, Knoxville - Solitary fibrous tumor

Texas, Crystal Beach - Leiomyoma

Texas, Lubbock - Stromal hyperplasia

Canada (Pasqua Hospital) - Stromal sarcoma

Canada (Royal Alexandra Hospital) - Stromal tumor of unknown malignant potential

Japan (Asahi General Hospital) - Pseudosarcomatous myofibroblastic proliferation

Japan, Tokyo - Adenomatoid tumor

Japan (University of Yamanashi) - Stromal hyperplasia (1); Nodular hyperplasia (1)

Case 7 - Diagnosis:

Stromal tumor of unknown malignant potential, prostate

Case 7 - References:

Prostatic stromal tumor of uncertain malignant potential (STUMP) with unrecognized growth pattern. *Pathol Int* 2012; Jan;62(1): p69-71. Fushimi S; Ogino T, et al.

Epithelial proliferations in prostatic stromal tumors of uncertain malignant potential (STUMP). *Am J Surg Pathol* 2011; Jun;35(6): p898-903. Nagar M; Epstein JI.

[Prostatic Stromal Tumors of Uncertain Malignant Potential (STUMP): definition, pathology, prognosis and management] *Prog Urol* 2012; Oct;22(12): p688-91. Michaud S; Moreau A, et al.

MRI findings of prostate stromal tumour of uncertain malignant potential: a case report. *Br J Radiol* 2011; Oct;84(1006): p194-6. Muglia VF; Saber G, et al.

Case No. 8, Accession No. 31752

September 2014

San Diego (Naval Medical Center) - Wilms tumor

San Jose - Ewing sarcoma/PNET vs. malignant neuroepithelial tumor of kidney

Delaware (Armed Forces Medical Examiner System) - Monophasic Wilms tumor

[Georgia, Atlanta](#) - Blastema predominant nephroblastoma (Wilms tumor)
[Illinois \(Heartland Regional Medical Center\)](#) - Nephroblastoma
[Maryland \(University of Maryland Medical Center\)](#) - Nephroblastoma
[Maryland \(Walter Reed NMMC\)](#) - Nephroblastoma
[Ohio \(Cleveland Clinic\)](#) - Wilms tumor (blastema predominant Wilms tumor)
[Ohio \(University of Toledo Medical Center Residents\)](#) - Wilms tumor
[Oregon \(Oregon Health and Service University Resident Group\)](#) - Wilms tumor
[Puerto Rico \(University of Puerto Rico\)](#) - Wilms tumor favorable histology rule out neuroblastoma
[Tennessee, Knoxville](#) - Wilms tumor
[Texas, Crystal Beach](#) - Nephroblastoma
[Texas, Lubbock](#) - Wilms tumor with favorable histology
[Canada \(Pasqua Hospital\)](#) - Wilms tumor
[Canada \(Royal Alexandra Hospital\)](#) - Wilms tumor
[Japan \(Asahi General Hospital\)](#) - Nephroblastoma
[Japan, Tokyo](#) - Nephroblastoma
[Japan \(University of Yamanashi\)](#) - Nephroblastoma

Case 8 - Diagnosis:

Nephroblastoma (Wilms tumor), kidney

Case 8 - References:

Scholastic achievement of children with lymphoma or Wilms tumor at the end of comprehensive education--a nationwide, register-based study. *Int J Cancer* 2008; Nov 15;123(10): p2401-5.
 Lahteenmaki PM; Sankila R, et al. Wilms tumour histology is determined by distinct types of precursor lesions and not epigenetic changes. *J Pathol* 2008; Aug;215(4): p377-87. Fukuzawa R; Anaka MR, et al.
 The Perlman syndrome: familial renal dysplasia with Wilms tumor, fetal gigantism and multiple congenital anomalies. 1984. *Am J Med Genet A* 2013; Nov;161A(11): p2691-6. Neri G; Martini-Neri ME, et al.
 Stratification of Wilms tumor by genetic and epigenetic analysis. *Oncotarget* 2012; Mar;3(3): p327-35. Scott RH; Murray A, et al.
 p53 Immunohistochemistry expression in Wilms tumor: a prognostic tool in the detection of tumor aggressiveness. *J Urol* 2013; Feb;189(2): p664-70. Franken J; Lerut E, et al.

Case No. 9, Accession No. 31949

September 2014

[San Diego \(Naval Medical Center\)](#) - Papillary renal cell carcinoma
[San Jose](#) - Papillary renal cell carcinoma
[Delaware \(Armed Forces Medical Examiner System\)](#) - Papillary renal cell carcinoma
[Georgia, Atlanta](#) - Papillary renal cell carcinoma
[Illinois \(Heartland Regional Medical Center\)](#) - Papillary renal cell carcinoma
[Maryland \(University of Maryland Medical Center\)](#) - Papillary renal cell carcinoma, type 2
[Maryland \(Walter Reed NMMC\)](#) - Papillary renal cell carcinoma
[Ohio \(Cleveland Clinic\)](#) - Papillary renal cell carcinoma
[Ohio \(University of Toledo Medical Center Residents\)](#) - Papillary renal cell carcinoma, type 2
[Oregon \(Oregon Health and Service University Resident Group\)](#) - Oncocytic papillary renal cell carcinoma
[Puerto Rico \(University of Puerto Rico\)](#) - Papillary renal cell carcinoma
[Tennessee, Knoxville](#) - Chromophobe renal cell carcinoma
[Texas, Crystal Beach](#) - Oncocytoma
[Texas, Lubbock](#) - Papillary renal cell carcinoma
[Canada \(Pasqua Hospital\)](#) - Papillary renal cell carcinoma
[Canada \(Royal Alexandra Hospital\)](#) - Papillary renal cell carcinoma, type 1
[Japan \(Asahi General Hospital\)](#) - Oncocytoma
[Japan, Tokyo](#) - Oncocytoma
[Japan \(University of Yamanashi\)](#) - Papillary renal cell carcinoma

Case 9 - Diagnosis:

Papillary renal cell carcinoma, kidney

Case 9 - References:

- Clear cell papillary renal cell carcinoma with characteristic morphology and immunohistochemical staining pattern. *Pathologica* 2012; Jun;104(3): p101-4. Gilani SM; Tashjian R; Qu H.
- Oncocytic papillary renal cell carcinoma: potential pitfall in small enucleation. *Pathologica* 2012; Jun;104(3): p98-100. Munari E; Eccher A, et al.
- Papillary renal cell carcinoma with "hyaline globules" simulating adenoid cystic carcinoma. *Diagn Cytopathol* 2010; Sep;38(9): p657-9. Eluri S; Ali SZ.
- Clear cell papillary renal cell carcinoma and clear cell renal cell carcinoma arising in acquired cystic disease of the kidney: an immunohistochemical and genetic study. *Ann Diagn Pathol* 2011; Aug;15(4): p282-5. Kuroda N; Shiotsu T, et al.
- Presence and extent of histological tumour necrosis is an adverse prognostic factor in papillary type 1 but not in papillary type 2 renal cell carcinoma. *Histopathology* 2013; Jan;62(2): p219-28. Pichler M; Hutterer GC, et al.
- Papillary renal cell carcinoma: report of a rare entity in childhood with review of the clinical management. *J Pediatr Surg* 2011; Jun;46(6): p31-4. Schultz TD; Sergi C, et al.
- Solid variant of papillary renal cell carcinoma with spindle cell and tubular components. *Arch Pathol Lab Med* 2010; Aug;134(8): p1210-4. Cantley R; Gattuso P, et al.

Case No. 10, Accession No. 29945

September 2014

San Diego (Naval Medical Center) - Angiosarcoma
San Jose - Angiosarcoma
Delaware (Armed Forces Medical Examiner System) - Angiosarcoma
Georgia, Atlanta - Epithelioid angiosarcoma
Illinois (Heartland Regional Medical Center) - Angiosarcoma, poorly differentiated
Maryland (University of Maryland Medical Center) - Angiosarcoma
Maryland (Walter Reed NMMC) - Angiosarcoma
Ohio (Cleveland Clinic) - Epithelioid angiosarcoma
Ohio (University of Toledo Medical Center Residents) - Epithelioid angiosarcoma
Oregon (Oregon Health and Service University Resident Group) - Angiosarcoma
Puerto Rico (University of Puerto Rico) - Angiosarcoma
Tennessee, Knoxville - Angiosarcoma
Texas, Crystal Beach - Solitary fibrous tumor vs. angiosarcoma
Texas, Lubbock - Angiosarcoma
Canada (Pasqua Hospital) - Wilms tumor
Canada (Royal Alexandra Hospital) - Angiosarcoma
Japan (Asahi General Hospital) - Angiosarcoma
Japan, Tokyo - Urothelial carcinoma
Japan (University of Yamanashi) - Angiosarcoma

Case 10 - Diagnosis:

Epithelioid angiosarcoma, kidney

Case 10 - References:

- Epithelioid angiosarcoma of the kidney: a diagnostic dilemma in fine-needle aspiration cytology. *Diagn Cytopathol* 2012; Aug;40 Suppl 2:E131-9. Singh C; Xie L, et al.
- Primary vascular tumors and tumor-like lesions of the kidney: a clinicopathologic analysis of 25 cases. *Am J Surg Pathol* 2010; Jul;34(7): p942-9. Brown JG; Folpe AL, et al.
- Primary renal angiosarcoma: case report and review of world literature. *Tumori* 2011 Jul-Aug;97(4): pe6-9. Zenico T; Saccomanni M, et al.
- Angiosarcoma of the kidney with minute clear cell carcinomas: a case report. *Pathol Res Pract* 2009;205(5): p347-51. Fukunaga M.
- Angiosarcoma arising in an arteriovenous fistula in a patient without kidney transplant. *Acta Chir Belg* 2014; Jan-Feb;114(1): p75-8. Demey K; Reyns LM; Schepers S.

Clinical and pathological features of primary renal angiosarcoma. *Can Urol Assoc J* 2014; Mar;8(3-4): pE223-6
Iacovelli R; Orlando V, et al.