



CALIFORNIA  
TUMOR TISSUE REGISTRY

*PEDIATRIC PATHOLOGY*

Minutes – Subscription B

February 2012



**SUGGESTED READING (General Topics from Recent Literature):**

- Cutaneous Angiosarcoma Arising in Massive Localized Lymphedema of the Morbidly Obese: A Report of Five Cases and Review of the Literature. Shon W, Ida CM, et al. *J Cutan Pathol* 2011; 38:560-564.
- Prognostic Significance of Tumor Grading and Staging in Mammary Carcinomas with Neuroendocrine Differentiation. Tian Z, Wei B, et al. *Hum Pathol* 2011; 41:1169-1177.
- Chromophobe Renal Cell Carcinoma: A Clinicopathologic Study of 203 Tumors in 200 Patients With Primary Resection at a Single Institution. Przybycin CG, Cronin AM, et al. *Am J Surg Pathol* 2011; 35: 962-970.
- The Utility of ERG/P63 Double Immunohistochemical Staining in the Diagnosis of Limited Cancer in Prostate Needle Biopsies. Yaskiv O, Zhang X, et al. *Am J Surg Pathol* 2011; 35:1062-1068.
- PAX8 Immunostaining of Anaplastic Thyroid Carcinoma: A Reliable Means of Discerning Thyroid Origin for Undifferentiated Tumors of the Head and Neck. Bishop AJ, Sharma R and Westra WH. *Hum Pathol* 2011; June 8: epub ahead of print.

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## **FILE DIAGNOSES**

**CTTR Subscription B**

**February 2012**

**Case 1:**

Lymphangioma, chest wall  
T-Y2100, M-91700

**Case 2:**

Lipomyelomeningocele, back  
T-Y1100, M-21620

**Case 3:**

Condyloma acuminatum, anus  
T-Y1701, M-76720

**Case 4:**

Adamantinoma arising in osteofibrous dysplasia, tibial diaphysis  
T-11736, M-92613

**Case 5:**

Giant cell tumor of bone, sacrum  
T-Y1410, M-69210

**Case 6:**

Embryonal rhabdomyosarcoma, eyelid  
T-XX821, M-89103

**Case 7:**

Alveolar rhabdomyosarcoma, hand  
T-Y8700, M-89103

**Case 8:**

Congenital mesoblastic nephroma, predominantly classic type, kidney  
T-71000, M-89601

**Case 9:**

Wilms tumor, mostly monomorphic epithelial growth pattern, kidney  
T-71000, M-89603

**Case 10:**

Clear cell sarcoma, kidney  
T-71000, M-88003

Glendale - Lymphangioma  
Orange - Lymphangioma vs. hemangioma  
Orinda (Kaiser Permanente) - Cavernous hemangioma  
San Diego (Naval Medical Center) - Cavernous hemangioma  
Alabama (Cunningham Pathology) - Cystic lymphangioma/cavernous hemangioma  
Florida, Orlando - Hemangioma  
Georgia, Atlanta - Lymphangioma  
Illinois (Heartland Regional Medical Center) - Cavernous hemangioma  
Kansas (Coffeyville Regional Medical Center) - Cystic hemangioma  
Kansas (Peterson Laboratory Services) - Lymphangioma (2)  
Maryland (University of Maryland) - Hemangioma  
Michigan (Henry Ford Hospital) - Cavernous hemangioma  
New York (Buffalo General Hospital) - Hemangioma  
New York (Stony Brook University Medical Center Residents) - Lymphangioma  
New York (SUNY Downstate Medical Center) - Lymphangioma  
Ohio (University of Toledo Residents) - Lymphangioleiomyomatosis  
Oregon (Oregon Health & Science University) - Vascular malformation, consistent with lymphangioma  
Pennsylvania (Conemaugh Memorial Medical Center) - Intramuscular hemangioma  
Pennsylvania (Drexel University College of Medicine Residents) - Hemangioma, NOS  
Puerto Rico (University of Puerto Rico) - Lymphangioma  
South Carolina (Lexington Medical Center) - Lymphangioma  
Tennessee, Knoxville - Lymphangioma  
Texas (Crystal Beach) - Hemangioma, cavernous  
Texas, Lubbock - Cavernous hemangioma  
Wisconsin, Madison - Cystic hygroma (lymphangioma)  
Wisconsin (Medical Assessment and Consultation, S.C.) - Cavernous hemangioma  
Wisconsin (Medical College of Wisconsin) - Hemangioma  
Australia (Royal Prince Alfred Hospital) - Lymphatic malformation (cystic hygroma)  
Canada (Pasqua Hospital) - Lymphangioma  
Ireland (University College Hospital, Galway) - Venous hemangioma  
Japan (Asahi General Hospital) - Intramuscular hemangioma (1); Angiomyolipoma (1)  
Japan (Setagaya-Ku) - Hemangioma  
Saudi Arabia (King Khalid University Hospital) - Lymphangioma

**Case 1 - Diagnosis:**

Lymphangioma, chest wall  
T-Y2100, M-91700

**Case 1 - References:**

Tumors of the mediastinum and chest wall. *Surg Clin North Am* 2010; Oct;90(5): p1019-40. Kim JY; Hofstetter WL.  
Cystic lymphangioma in adults: can trauma be the trigger? *Eur Arch Otorhinolaryngol* 2005; Apr;262(4): p335-7.  
Aneeshkumar MK; Kale S, et al.  
Thoracic cystic lymphangioma (cystic hygroma): a chest pain syndrome--a case report. *Angiology* 2004; Sep-Oct;55(5): p561-4.  
Congenital laterocervical complex masses: Are they all lymphangiomas? *J Pediatr* 2005; Jul;147(1): p121. Messineo A; Codrich D, et al.

Glendale - Fibromatosis  
Loma Linda - Lipoma  
Orange - Lipomeningomyelocele  
Orinda (Kaiser Permanente) - Lumbosacral lipoma  
San Diego (Naval Medical Center) - Lipoma of the filum terminalis  
Alabama (Cunningham Pathology) - Fibrous hamartoma of infancy  
Florida, Orlando - Lipoma  
Georgia, Atlanta - Ependymoma, rule out teratoma  
Illinois (Heartland Regional Medical Center) - Lumbosacral lipoma  
Kansas (Coffeyville Regional Medical Center) - Hamartoma  
Kansas (Peterson Laboratory Services) - Lipoma (1); Angiofibrolipoma (1)  
Maryland (University of Maryland) - Lipomeningococele  
Michigan (Henry Ford Hospital) - Spinal cord lipoma  
New York (Buffalo General Hospital) - Lipofibromatous hamartoma (perineural fibrolipoma)  
New York (Stony Brook University Medical Center Residents) - Lipofibroma  
New York (SUNY Downstate Medical Center) - Fibrolipomatous hamartoma  
Ohio (University of Toledo Residents) - Intermuscular lipoma  
Oregon (Oregon Health & Science University) - Lipoma/spinal cord lipoma, if associated with cord  
Pennsylvania (Conemaugh Memorial Medical Center) - Fibrous hamartoma of infancy  
Pennsylvania (Drexel University College of Medicine Residents) - Lipomeningococele  
Puerto Rico (University of Puerto Rico) - Lipoma/fibrolipomatosis of nerve/lipomyelomeningococele  
South Carolina (Lexington Medical Center) - Lipoma, clinically tethered cord  
Tennessee, Knoxville - Lipoma  
Texas (Crystal Beach) - Neuroma  
Texas, Lubbock - Infantile hamartoma  
Wisconsin, Madison - Hamartoma tissue (? tissue from syringomyelima)  
Wisconsin (Medical Assessment and Consultation, S.C.) - Benign adipose and fibrous tissue, favor elastofibroma vs. Gardner's fibroma (would do special staining)  
Wisconsin (Medical College of Wisconsin) - Glomus body malformation of the sacrum  
Australia (Royal Prince Alfred Hospital) - ? fibrous dysplasia  
Canada (Pasqua Hospital) - Meningioma  
Ireland (University College Hospital, Galway) - Fibrolipoma  
Japan (Asahi General Hospital) - Fibrous hamartoma (1); Angiolipoma (1)  
Japan (Setagaya-Ku) - Lipoma  
Saudi Arabia (King Khalid University Hospital) - Lipomeningococele

**Case 2 - Diagnosis:**

Lipomyelomeningococele, back  
T-Y1100, M-21620

**Case 2 - References:**

Clinical outcome differences for lipomyelomeningoceles, intraspinal lipomas, and lipomas of the filum terminale. *Neurosurg Rev* 2001; Dec;24(4): p192-4. Bulsara KR; Zomorodi AR, et al..  
Spontaneous regression of lipomyelomeningococele associated with terminal syringomyelia in a child. Case report. *J Neurosurg* 2007; Sep;107(3 Suppl): p244-7. Klein O; Thompson D..  
Lumbar lipomyelomeningococele and sacrococcygeal teratoma in siblings: support for an alternative theory of spinal teratoma formation. *J Neurosurg Pediatr* 2010; Jun;5(6): p626-9. Oliveria SF; Thompson EM; Selden NR.  
Critical analysis of the Chiari malformation Type I found in children with lipomyelomeningococele. *J Neurosurg* 2007; Mar;106(3 Suppl): p196-200. Tubbs RS; Bui CJ, et al..  
Terminal myelocystoceles: a series of 17 cases. *J Neurosurg* 2005; Oct;103(4 Suppl): p344-52. Gupta DK; Mahapatra AK.

Glendale - Condyloma acuminatum  
Orange - Condyloma  
Orinda (Kaiser Permanente) - Condyloma  
San Diego (Naval Medical Center) - Condyloma acuminatum  
Alabama (Cunningham Pathology) - Condyloma  
Florida, Orlando - Giant condyloma acuminatum  
Georgia, Atlanta - Condyloma acuminatum  
Illinois (Heartland Regional Medical Center) - Condyloma acuminatum  
Kansas (Coffeyville Regional Medical Center) - Condyloma acuminatum  
Kansas (Peterson Laboratory Services) - Condyloma (1); Condyloma acuminatum (1)  
Maryland (University of Maryland) - Condyloma  
Michigan (Henry Ford Hospital) - Hypertrophied papillae  
New York (Buffalo General Hospital) - Condyloma  
New York (Stony Brook University Medical Center Residents) - Condyloma accuminata  
New York (SUNY Downstate Medical Center) - Condyloma accuminata  
Ohio (University of Toledo Residents) - Condyloma  
Oregon (Oregon Health & Science University) - Condyloma acuminatum  
Pennsylvania (Conemaugh Memorial Medical Center) - Condyloma accuminata  
Pennsylvania (Drexel University College of Medicine Residents) - Condyloma acuminatum  
Puerto Rico (University of Puerto Rico) - Condyloma acuminatum  
South Carolina (Lexington Medical Center) - Condyloma acuminatum  
Tennessee, Knoxville - Condyloma accuminata  
Texas (Crystal Beach) - Condyloma acuminatum  
Texas, Lubbock - Condyloma accuminata  
Wisconsin, Madison - Anal wart (condyloma)  
Wisconsin (Medical Assessment and Consultation, S.C.) - Condyloma acuminatum  
Wisconsin (Medical College of Wisconsin) - Condyloma accuminata  
Australia (Royal Prince Alfred Hospital) - Condyloma accuminata  
Canada (Pasqua Hospital) - Condyloma accuminata  
Ireland (University College Hospital, Galway) - Condyloma acuminatum  
Japan (Asahi General Hospital) - Condyloma acuminatum (1); Squamous papilloma (1)  
Japan (Setagaya-Ku) - Anal polyp  
Saudi Arabia (King Khalid University Hospital) - Viral wart (condyloma acuminatum)

**Case 3 - Diagnosis:**

Condyloma acuminatum, anus  
T-Y1701, M-76720

**Case 3 - References:**

Giant condyloma acuminatum in an infant. *Pediatr Dermatol* 2009; Jul-Aug;26(4): p488-9. Tinsa F; Gharbi A, et al..  
Giant anal condylomatosis after allogeneic bone marrow transplantation: a rare complication of human papilloma virus infection. *Transpl Infect Dis* 2008; Feb;10(1): p56-8. Ganguly N; Waller S, et al..  
Condyloma and other infections including human immunodeficiency virus. *Surg Clin North Am* 2010; Feb;90(1): p99-112, Table of Contents. Lee PK; Wilkins KB.  
Diagnostic problems in anal pathology. *Adv Anat Pathol* 2008; Sep;15(5): p263-78. Longacre TA; Kong CS; Welton ML.  
Condyloma accuminata: what's in a name? *J Am Acad Dermatol* 2010; Dec;63(6): p1100. Penneys NS; Winkelman FJ.

Glendale - Adamantinoma  
Loma Linda - Osteoma  
Orange - Adamantinoma  
Orinda (Kaiser Permanente) - Adamantinoma  
San Diego (Naval Medical Center) - Adamantinoma  
Alabama (Cunningham Pathology) - Fibrous dysplasia  
Florida, Orlando - Fibrous dysplasia  
Georgia, Atlanta - Adamantinoma  
Illinois (Heartland Regional Medical Center) - Fibromyxoid neoplasm, NOS  
Kansas (Coffeyville Regional Medical Center) - Adamantinoma  
Kansas (Peterson Laboratory Services) - Fibrous dysplasia (1); Adamantinoma (1)  
Maryland (University of Maryland) - Adamantinoma  
Michigan (Henry Ford Hospital) - Fibrous dysplasia  
New York (Buffalo General Hospital) - Adamantinoma  
New York (Stony Brook University Medical Center Residents) - Adamantinoma  
New York (SUNY Downstate Medical Center) - Adamantinoma  
Ohio (University of Toledo Residents) - Adamantinoma  
Oregon (Oregon Health & Science University) - Adamantinoma, tibia  
Pennsylvania (Conemaugh Memorial Medical Center) - Adamantinoma  
Pennsylvania (Drexel University College of Medicine Residents) - Adamantinoma  
Puerto Rico (University of Puerto Rico) - Adamantinoma  
South Carolina (Lexington Medical Center) - Adamantinoma  
Tennessee, Knoxville - Fibrous dysplasia vs. parosteal osteosarcoma  
Texas (Crystal Beach) - Osteoblastoma  
Texas, Lubbock - Hemangiopericytoma  
Wisconsin, Madison - Adamantinoma  
Wisconsin (Medical Assessment and Consultation, S.C.) - Fibrous dysplasia of bone  
Wisconsin (Medical College of Wisconsin) - Adamantinoma  
Australia (Royal Prince Alfred Hospital) - Adamantinoma  
Canada (Pasqua Hospital) - Adamantinoma  
Ireland (University College Hospital, Galway) - Adamantinoma  
Japan (Asahi General Hospital) - Adamantinoma (1); Osteofibrous dysplasia (1)  
Japan (Setagaya-Ku) - Adamantinoma  
Saudi Arabia (King Khalid University Hospital) - Osteofibrous dysplasia like adamantinoma

**Case 4 - Diagnosis:**

Adamantinoma arising in osteofibrous dysplasia, tibial diaphysis  
T-11736, M-92613

**Director's note:** Some slides showed only the osteofibrous dysplasia component (drc).

**Case 4 - References:**

Osteofibrous dysplasia and adamantinoma in children and adolescents: a clinicopathologic reappraisal. *Am J Surg Pathol* 2008; Mar;32(3): p363-76. Gleason BC; Liegl-Atzwanger B, et al.  
Osteofibrous dysplasia and adamantinoma. *J Am Acad Orthop Surg* 2010; Jun;18(6): p358-66. Most MJ; Sim FH; Inwards CY  
Adamantinoma of tibia: a study of 12 cases. *J Surg Oncol* 2006; Apr 1;93(5): p429-33. Desai SS; Jambhekar N, et al.  
Primary tibial adamantinoma diagnosed by fine needle aspiration. *Diagn Cytopathol* 2010; Mar;38(3): p198-201. Bishop JA; Ali SZ.  
Osteofibrous dysplasia, osteofibrous dysplasia-like adamantinoma and adamantinoma: correlation of radiological imaging features with surgical histology and assessment of the use of radiology in contributing to needle biopsy diagnosis. *Skeletal Radiol* 2008; Dec;37(12): p1077-84. Khanna M; Delaney D; Tirabosco R; Saifuddin A

Glendale - Giant cell tumor of bone  
Loma Linda - Giant cell tumor of bone  
Orange - Giant cell tumor of bone  
Orinda (Kaiser Permanente) - Giant cell tumor of bone  
San Diego (Naval Medical Center) - Giant cell tumor of bone  
Alabama (Cunningham Pathology) - Giant cell tumor  
Florida, Orlando - Giant cell tumor of bone  
Georgia, Atlanta - Giant cell tumor  
Illinois (Heartland Regional Medical Center) - Giant cell tumor  
Kansas (Coffeyville Regional Medical Center) - Giant cell tumor of bone  
Kansas (Peterson Laboratory Services) - Giant cell tumor of bone (2)  
Maryland (University of Maryland) - Giant cell tumor  
Michigan (Henry Ford Hospital) - Giant cell tumor of tendon sheath  
New York (Buffalo General Hospital) - Giant cell tumor of sacrum  
New York (Stony Brook University Medical Center Residents) - Giant cell tumor of bone  
New York (SUNY Downstate Medical Center) - Giant cell tumor  
Ohio (University of Toledo Residents) - Giant cell tumor of the bone  
Oregon (Oregon Health & Science University) - Giant cell tumor of bone, sacrum  
Pennsylvania (Conemaugh Memorial Medical Center) - Giant cell tumor  
Pennsylvania (Drexel University College of Medicine Residents) - Tenosynovial giant cell tumor  
Puerto Rico (University of Puerto Rico) - Giant cell tumor of bone  
South Carolina (Lexington Medical Center) - Giant cell tumor of bone  
Tennessee, Knoxville - Giant cell tumor  
Texas (Crystal Beach) - Giant cell tumor  
Texas, Lubbock - Chondrosarcoma  
Wisconsin, Madison - Giant cell tumor of bone vs. osteosarcoma, giant cell type  
Wisconsin (Medical Assessment and Consultation, S.C.) - Soft tissue giant cell tumor of low malignant potential  
Wisconsin (Medical College of Wisconsin) - Solid variant of ABC  
Australia (Royal Prince Alfred Hospital) - Giant cell tumor of bone  
Canada (Pasqua Hospital) - Giant cell tumor  
Ireland (University College Hospital, Galway) - Giant cell tumor  
Japan (Asahi General Hospital) - Giant cell tumor (2)  
Japan (Setagaya-Ku) - Giant cell tumor  
Saudi Arabia (King Khalid University Hospital) - Giant cell tumor of bone

**Case 5 - Diagnosis:**

Giant cell tumor of bone, sacrum  
T-Y1410, M-69210

**Case 5 - References:**

Giant cell tumor of the pelvis and sacrum: 17 cases and analysis of the literature. *Clin Orthop Relat Res* 2004; Jun;(423): p196-207. Leggon RE; Zlotecki R, et al.  
Fine-needle aspiration cytologic diagnosis of giant-cell tumor of the sacrum presenting as a rectal mass: A case report. *Diagn Cytopathol* 2001; Jan;24(1): p39-41. Saikia B; Goel A; Gupta SK.  
Soft tissue recurrence of sacral giant cell tumour of bone as an intra-abdominal mass: an unusual presentation. *Pathology* 2008; Apr;40(3): p312-3. Ngan KW; Chuang WY; Yeh CJ.  
Diffuse-type giant cell tumor/pigmented villonodular synovitis arising in the sacrum: malignant form. *Pathol Int* 2007; Sep;57(9): p627-31. Oda Y; Takahira T, et al.  
Giant cell tumor of the spine. *Neurosurg Clin N Am* 2008; Jan;19(1): p49-55. Luther N; Bilsky MH; Hartl R.

Glendale - Embryonal rhabdomyosarcoma with anaplasia  
Orange - Rhabdomyosarcoma alveolar vs. embryonal type  
Orinda (Kaiser Permanente) - Rhabdomyosarcoma  
San Diego (Naval Medical Center) - Embryonal rhabdomyosarcoma  
Alabama (Cunningham Pathology) - Embryonal rhabdomyosarcoma  
Florida, Orlando - Embryonal rhabdomyosarcoma  
Georgia, Atlanta - Embryonal rhabdomyosarcoma  
Illinois (Heartland Regional Medical Center) - Embryonal rhabdomyosarcoma  
Kansas (Coffeyville Regional Medical Center) - Rhabdomyosarcoma  
Kansas (Peterson Laboratory Services) - Embryonal rhabdomyosarcoma (2)  
Maryland (University of Maryland) - Embryonal rhabdomyosarcoma with anaplasia  
Michigan (Henry Ford Hospital) - Rhabdomyosarcoma  
New York (Buffalo General Hospital) - Embryonal rhabdomyosarcoma  
New York (Stony Brook University Medical Center Residents) - Embryonal rhabdomyosarcoma  
New York (SUNY Downstate Medical Center) - Rhabdomyosarcoma  
Ohio (University of Toledo Residents) - Rhabdomyosarcoma  
Oregon (Oregon Health & Science University) - Embryonal rhabdomyosarcoma, eyelid  
Pennsylvania (Conemaugh Memorial Medical Center) - Embryonal rhabdomyosarcoma  
Pennsylvania (Drexel University College of Medicine Residents) - Embryonal rhabdomyosarcoma  
Puerto Rico (University of Puerto Rico) - Anaplastic embryonal rhabdomyosarcoma  
South Carolina (Lexington Medical Center) - Rhabdomyosarcoma  
Tennessee, Knoxville - Rhabdomyosarcoma  
Texas (Crystal Beach) - Rhabdomyosarcoma, probable  
Texas, Lubbock - Rhabdomyosarcoma  
Wisconsin, Madison - Rhabdomyosarcoma  
Wisconsin (Medical Assessment and Consultation, S.C.) - Malignant neoplasm; favor rhabdomyosarcoma (would do additional IHC)  
Wisconsin (Medical College of Wisconsin) - Rhabdomyosarcoma  
Australia (Royal Prince Alfred Hospital) - Embryonal rhabdomyosarcoma  
Canada (Pasqua Hospital) - Rhabdomyosarcoma  
Ireland (University College Hospital, Galway) - Embryonal rhabdomyosarcoma  
Japan (Asahi General Hospital) - Rhabdomyosarcoma (1); Malignant rhabdoid tumor (1)  
Japan (Setagaya-Ku) - Malignant melanoma  
Saudi Arabia (King Khalid University Hospital) - Embryonal rhabdomyosarcoma

**Case 6 - Diagnosis:**

Embryonal rhabdomyosarcoma, eyelid  
T-XX821, M-89103

**Case 6 - References:**

Lower eyelid rhabdomyosarcoma in a 3-month-old infant. *J AAPOS* 2010; Jun;14(3): p285-7. Jung JH; Lee JE, et al.  
[Case report of a 2-year-old child with palpebral rhabdomyosarcoma] *J Fr Ophthalmol* 2010; Mar;33(3): p178-84.  
Bonnin N; Nezzar H, et al.  
Primary ophthalmic rhabdomyosarcoma in 33 patients. *Trans Am Ophthalmol Soc* 2001;;99:133-42; discussion 142-3.  
Shields CL; Shields JA, et al.  
Primary ophthalmic rhabdomyosarcoma. *Ophthalmology* 2003; May;110(5): p877; author reply 877-8.



Glendale - Alveolar rhabdomyosarcoma  
Orange - Rhabdomyosarcoma alveolar vs. embryonal type  
Orinda (Kaiser Permanente) - Synovial sarcoma vs. alveolar rhabdomyosarcoma  
San Diego (Naval Medical Center) - Ewing's sarcoma/PNET vs. alveolar rhabdomyosarcoma  
Alabama (Cunningham Pathology) - ES/PNET  
Florida, Orlando - Alveolar rhabdomyosarcoma  
Georgia, Atlanta - Alveolar rhabdomyosarcoma  
Illinois (Heartland Regional Medical Center) - Alveolar rhabdomyosarcoma  
Kansas (Coffeyville Regional Medical Center) - Rhabdomyosarcoma  
Kansas (Peterson Laboratory Services) - Alveolar rhabdomyosarcoma (2)  
Maryland (University of Maryland) - Alveolar rhabdomyosarcoma  
Michigan (Henry Ford Hospital) - Soft parts sarcoma  
New York (Buffalo General Hospital) - Extra-osseous Ewing's sarcoma  
New York (Stony Brook University Medical Center Residents) - Alveolar rhabdomyosarcoma  
New York (SUNY Downstate Medical Center) - Rhabdomyosarcoma  
Ohio (University of Toledo Residents) - Alveolar rhabdomyosarcoma  
Oregon (Oregon Health & Science University) - Alveolar rhabdomyosarcoma, hand  
Pennsylvania (Conemaugh Memorial Medical Center) - Alveolar rhabdomyosarcoma  
Pennsylvania (Drexel University College of Medicine Residents) - Alveolar rhabdomyosarcoma  
Puerto Rico (University of Puerto Rico) - Primitive neuroectodermal tumor/synovial sarcoma/alveolar rhabdomyosarcoma  
South Carolina (Lexington Medical Center) - Synovial sarcoma  
Tennessee, Knoxville - Synovial sarcoma vs. other small round blue cell tumor  
Texas (Crystal Beach) - PNET  
Texas, Lubbock - Embryonal rhabdomyosarcoma  
Wisconsin, Madison - Rhabdomyosarcoma alveolar type vs. Ewing's sarcoma  
Wisconsin (Medical Assessment and Consultation, S.C.) - Malignant neoplasm; favor alveolar rhabdomyosarcoma (would do IHC)  
Wisconsin (Medical College of Wisconsin) - Alveolar rhabdomyosarcoma  
Australia (Royal Prince Alfred Hospital) - Alveolar rhabdomyosarcoma (? Ewing's)  
Canada (Pasqua Hospital) - Rhabdomyosarcoma  
Ireland (University College Hospital, Galway) - Alveolar rhabdomyosarcoma  
Japan (Asahi General Hospital) - Synovial sarcoma (1); PNET (Ewing sarcoma) (1)  
Japan (Setagaya-Ku) - Rhabdomyosarcoma  
Saudi Arabia (King Khalid University Hospital) - Malignant round blue cell tumor most probably alveolar rhabdomyosarcoma

**Case 7 - Diagnosis:**

Alveolar rhabdomyosarcoma, hand  
 T-Y8700, M-89103

**Case 7 - References:**

A metastatic alveolar rhabdomyosarcoma of the hand. *Pediatr Blood Cancer* 2006; Jan;46(1): p115-6. Seifert G; Seeger K, et al.  
 Rhabdomyosarcoma arising in the hand or foot: a clinicopathologic analysis. *Pediatr Dev Pathol* 2004; Jul-Aug;7(4): p361-9. Miller DV; Coffin CM; Zhou H.  
 Alveolar rhabdomyosarcoma of the left hand with bilateral breast metastases in an adolescent female. *J Chin Med Assoc* (China 2008; Dec;71(12): p639-42. Tan GC; Shiran MS, et al.  
 Alveolar rhabdomyosarcoma of the hand in a 2 year-old child. *J Hand Surg Eur Vol* 2007; Feb;32(1): p109-10. Milanovic R; Vlajicic Z, et al.  
 Rhabdomyosarcoma of the hand. *Med Pediatr Oncol* 2001; Nov;37(5): p481. Milanovic R; Zganjer M, et al.  
 Sentinel lymph node mapping and biopsy: a potentially valuable tool in the management of childhood extremity rhabdomyosarcoma. *Pediatr Surg Int* 2003; Aug;19(6): p453-6. McMulkin HM; Yanchar NL, et al.

Glendale - Mesoblastic nephroma  
Orange - Mesoblastic nephroma, cellular variant  
Orinda (Kaiser Permanente) - Congenital mesoblastic nephroma  
San Diego (Naval Medical Center) - Mesoblastic nephroma  
Alabama (Cunningham Pathology) - Mesoblastic nephroma  
Florida, Orlando - Mesoblastic nephroma  
Georgia, Atlanta - Mesoblastic nephroma, classic type  
Illinois (Heartland Regional Medical Center) - Mesoblastic nephroma, classic pattern  
Kansas (Coffeyville Regional Medical Center) - Leiomyomatosis hamartoma (mesoblastic nephroma)  
Kansas (Peterson Laboratory Services) - Congenital mesoblastic nephroma (2)  
Maryland (University of Maryland) - Congenital mesoblastic nephroma  
Michigan (Henry Ford Hospital) - Mesoblastic nephroma  
New York (Buffalo General Hospital) - Mesoblastic nephroma  
New York (Stony Brook University Medical Center Residents) - Mesoblastic nephroma with associated renal dysplasia  
New York (SUNY Downstate Medical Center) - Mesoblastic nephroma  
Ohio (University of Toledo Residents) - Mesoblastic nephroma  
Oregon (Oregon Health & Science University) - Mesoblastic nephroma  
Pennsylvania (Conemaugh Memorial Medical Center) - Mesoblastic nephroma  
Pennsylvania (Drexel University College of Medicine Residents) - Wilms tumor  
Puerto Rico (University of Puerto Rico) - Atypical mesoblastic nephroma  
South Carolina (Lexington Medical Center) - Metanephric stromal tumor  
Tennessee, Knoxville - Mesoblastic nephroma, classic type  
Texas (Crystal Beach) - Nephroblastoma (including cartilaginous stroma)  
Texas, Lubbock - Mixed epithelial and stromal tumor  
Wisconsin, Madison - Congenital mesoblastic nephroma  
Wisconsin (Medical Assessment and Consultation, S.C.) - Congenital mesoblastic nephroma, classic type  
Wisconsin (Medical College of Wisconsin) - Congenital mesoblastic nephroma  
Australia (Royal Prince Alfred Hospital) - Mesoblastic nephroma  
Canada (Pasqua Hospital) - Congenital mesoblastic nephroma  
Ireland (University College Hospital, Galway) - Congenital mesoblastic nephroma  
Japan (Asahi General Hospital) - Nephroblastoma, stromal type (1); Metanephric stromal tumor (1)  
Japan (Setagaya-Ku) - Mesoblastic nephroma  
Saudi Arabia (King Khalid University Hospital) - Congenital mesoblastic nephroma

#### **Case 8 - Diagnosis:**

Congenital mesoblastic nephroma, predominantly classic type, kidney  
 T-71000, M-89601

#### **Case 8 - References:**

Congenital mesoblastic nephroma. *J Urol* 2010; Mar;183(3): p1188-9. Gruver AM; Hansel DE, et al.  
 Cellular mesoblastic nephroma in an infant: report of the cytologic diagnosis of a rare paediatric renal tumor. *Diagn Cytopathol* 2009; May;37(5): p377-80. Gupta R; Mathur SR, et al.  
 Expression of ETV6-NTRK in classical, cellular and mixed subtypes of congenital mesoblastic nephroma. *Histopathology* 2006; May;48(6): p748-53. Anderson J; Gibson S; Sebire NJ.  
 Multicystic congenital mesoblastic nephroma. *Int J Surg Pathol* 2002; Jan;10(1): p59-63. Drut R.  
 Cytogenetic and molecular characterization of a congenital mesoblastic nephroma. *Pediatr Dev Pathol* 2001; Jul-Aug;4(4): p402-11. Ramachandran C; Melnick SJ, et al.  
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Glendale - Wilms tumor  
Orange - Renal papillary carcinoma  
Orinda (Kaiser Permanente) - Wilms tumor  
San Diego (Naval Medical Center) - Metanephric adenoma  
Alabama (Cunningham Pathology) - Nephroblastoma  
Florida, Orlando - Neuroendocrine carcinoma  
Georgia, Atlanta - Peripheral neuroectodermal tumor  
Illinois (Heartland Regional Medical Center) - Nephroblastoma  
Kansas (Coffeyville Regional Medical Center) - Nephroblastoma (Wilms tumor)  
Kansas (Peterson Laboratory Services) - Metanephric adenoma (1); Neuroblastoma (1)  
Maryland (University of Maryland) - Wilms tumor  
Michigan (Henry Ford Hospital) - Neuroblastoma  
New York (Buffalo General Hospital) - Poorly differentiated neuroblastoma  
New York (Stony Brook University Medical Center Residents) - Metanephric adenoma  
New York (SUNY Downstate Medical Center) - Metanephric adenoma  
Ohio (University of Toledo Residents) - Papillary adenoma  
Oregon (Oregon Health & Science University) - Differential include: Papillary renal cell carcinoma with micropapillary features, micropapillary urothelial carcinoma, PNET of kidney, epithelial predominant Wilms tumor  
Pennsylvania (Conemaugh Memorial Medical Center) - Wilms tumor  
Pennsylvania (Drexel University College of Medicine Residents) - Metanephric adenoma  
Puerto Rico (University of Puerto Rico) - Nephroblastoma/metanephric adenoma  
South Carolina (Lexington Medical Center) - Nephroblastoma  
Tennessee, Knoxville - Wilms tumor vs. metanephric adenoma  
Texas (Crystal Beach) - Neuroblastoma, adrenal  
Texas, Lubbock - Neuroblastoma  
Wisconsin, Madison - Metanephric adenoma  
Wisconsin (Medical Assessment and Consultation, S.C.) - Metanephric adenoma  
Wisconsin (Medical College of Wisconsin) - Metanephric adenoma  
Australia (Royal Prince Alfred Hospital) - Wilms tumor  
Canada (Pasqua Hospital) - Nephroblastoma  
Ireland (University College Hospital, Galway) - Wilms tumor, epithelial rich  
Japan (Asahi General Hospital) - Metanephric adenoma (1); Nephrogenic rests (1)  
Japan (Setagaya-Ku) - Renal cell carcinoma/papillary  
Saudi Arabia (King Khalid University Hospital) - Metanephric adenoma

**Case 9 - Diagnosis:**

Wilms tumor, mostly monomorphic epithelial growth pattern, kidney  
 T-71000, M-89603

**Case 9 - References:**

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 HER2/neu expression: a predictor for differentiation and survival in children with Wilms tumor. *Pathol Oncol Res* 2010; Mar;16(1): p61-7. Ragab SM; Samaka RM; Shams TM.

Glendale - Clear cell sarcoma of kidney  
Orange - Clear cell sarcoma  
Orinda (Kaiser Permanente) - Clear cell sarcoma  
San Diego (Naval Medical Center) - Clear cell sarcoma of the kidney  
Alabama (Cunningham Pathology) - Clear cell sarcoma  
Florida, Orlando - Myxoid/round cell liposarcoma  
Georgia, Atlanta - Clear cell sarcoma of kidney  
Illinois (Heartland Regional Medical Center) - Clear cell sarcoma  
Kansas (Coffeyville Regional Medical Center) - Nephroblastoma  
Kansas (Peterson Laboratory Services) - Clear cell sarcoma (2)  
Maryland (University of Maryland) - Clear cell sarcoma  
Michigan (Henry Ford Hospital) - Clear cell sarcoma  
New York (Buffalo General Hospital) - Clear cell sarcoma of the kidney  
New York (Stony Brook University Medical Center Residents) - Clear cell sarcoma of kidney  
New York (SUNY Downstate Medical Center) - Nephroblastoma  
Ohio (University of Toledo Residents) - Renal medullary carcinoma  
Oregon (Oregon Health & Science University) - Clear cell sarcoma of the kidney  
Pennsylvania (Conemaugh Memorial Medical Center) - Clear cell sarcoma  
Pennsylvania (Drexel University College of Medicine Residents) - Clear cell sarcoma of kidney  
Puerto Rico (University of Puerto Rico) - Renal cell clear cell sarcoma  
South Carolina (Lexington Medical Center) - Clear cell sarcoma of kidney  
Tennessee, Knoxville - Clear cell sarcoma  
Texas (Crystal Beach) - Mesoblastic nephroma  
Texas, Lubbock - Clear cell sarcoma  
Wisconsin, Madison - Wilms tumor  
Wisconsin (Medical Assessment and Consultation, S.C.) - Clear cells sarcoma of kidney  
Wisconsin (Medical College of Wisconsin) - Clear cell sarcoma of the kidney  
Australia (Royal Prince Alfred Hospital) - Clear cells sarcoma  
Canada (Pasqua Hospital) - Clear cell sarcoma  
Ireland (University College Hospital, Galway) - Wilms tumor  
Japan (Asahi General Hospital) - Metanephric stromal tumor (1); Sarcomatoid renal cell carcinoma (1)  
Japan (Setagaya-Ku) - Clear cell sarcoma  
Saudi Arabia (King Khalid University Hospital) - Clear cells sarcoma of the kidney (myxoid variant)

**Case 10 - Diagnosis:**

Clear cell sarcoma, kidney  
T-71000, M-88003

**Case 10 - References:**

Clear cell sarcoma of the kidney--a study of seven cases over a period of three years. *Indian J Pathol Microbiol* 2007; Apr;50(2): p270-3. Viswanathan S; Dave BK; Desai SB.  
Bone metastases of clear cell sarcoma of the kidney diagnosed by fine needle aspiration cytology. A case report. *Acta Cytol* 2007; Jan-Feb;51(1): p99-101. Anshu; Shivkumar VB, et al.  
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Cystic renal tumors: new entities and novel concepts. *Adv Anat Pathol* 2010; May;17(3): p209-14. Moch H.