

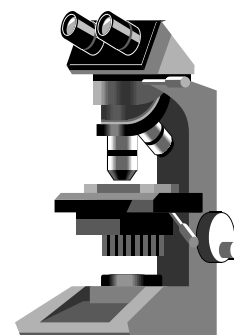


CALIFORNIA  
TUMOR TISSUE REGISTRY

*PEDIATRIC PATHOLOGY*

Minutes – Subscription B

January 2011



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

Medulloblastoma: role of developmental pathways, DNA repair signaling, and other players. Saran A. *Curr Mol Med* 2009; Dec;9(9): p1046-57.

Targeted molecular therapy for neuroblastoma: the ARF/MDM2/p53 axis. Kim E; Shohet J. *J Natl Cancer Inst* 2009; Nov 18;101(22): p1527-9.

Ependymoma: an update. Zacharoulis S; Moreno L. *J Child Neurol* 2009; Nov;24(11): p1431-8.

Sarcoma botryoides: MRI findings in two patients. Kobi M; Khatri G; Edelman M; Hines J. *J Magn Reson Imaging* 2009; Mar;29(3): p708-12.

Pediatric and adult hepatic embryonal sarcoma: a comparative ultrastructural study with morphologic correlations. Agaram NP; Baren A; Antonescu CR. *Ultrastruct Pathol* 2006; Nov-Dec;30(6): p403-8.

Cardiac rhabdomyoma. Amonkar GP; Kandalkar BM; Balasubramanian M. *Cardiovasc Pathol* 2009; Sep-Oct;18(5): p313-4.

California Tumor Tissue Registry  
c/o: Department of Pathology and Human Anatomy  
Loma Linda University School of Medicine  
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Web site & Case of the Month: [www.cttr.org](http://www.cttr.org)

## **FILE DIAGNOSES**

**CTTR Subscription B**

**January 2011**

**Case 1:**

Juvenile ossifying fibroma, psammomatoid type, maxilla  
T-22100, M-92740

**Case 2:**

Neuroblastoma, retroperitoneal  
T-Y4600, M-95003

**Case 3:**

Medulloblastoma, posterior fossa  
T-Y0450, M-94703

**Case 4:**

Anaplastic ependymoma, parietal  
T-X2302, M-93923

**Case 5:**

Undifferentiated embryonal sarcoma, left thorax  
T-Y2220, M-89913

**Case 6:**

Myxoid neoplasm with probably recurrent potential, perineal  
T-46800, M-80001

**Case 7:**

Wilms tumor, right kidney  
T-71000, M-89603

**Case 8:**

Juvenile fibroadenoma, breast  
T-04000, M-90300

**Case 9:**

Desmoplastic small round cell tumor, abdomen  
T-56000, M-80000

**Case 10:**

Glycogenosis (Pompe's disease), myocardium  
T-33010, D-1251

Carlsbad (Genoptix Medical Laboratory) - Osteosarcoma  
Glendale - Ossifying fibroma  
Loma Linda - Ossifying fibroma, maxilla  
Newport Beach - Osteosarcoma  
Sacramento (UCDMC) - Fibro-osseous lesion of bone with calcified spherules  
San Diego (Naval Medical Center) - Juvenile ossifying fibroma  
Florida (Munroe Regional Medical Center) - Pinborg tumor  
Florida (Naples Pathology Associates) - Odontogenic fibroma  
Georgia, Atlanta - Juvenile cemento-ossifying fibroma  
Illinois (Heartland Regional Medical Center) - Fibrous dysplasia vs. osteosarcoma  
Illinois (Memorial Medical Center) - Osteosarcoma of jawbone  
Kansas (Coffeyville Regional Medical Center) - Fibrous dysplasia  
Kansas (Peterson Laboratory Services) - Juvenile ossifying fibroma  
Maryland (University of Maryland Residents) - Favor cementin ossifying fibroma; the differential diagnosis includes osteoblastoma and langerhans cell histiocytosis  
Massachusetts (BWH Pathology) - Ossifying fibroma  
Michigan (Henry Ford Hospital Residents) - Osteosarcoma  
Michigan (Pinkus Dermatopathology Laboratory) - Ossifying/cementifying fibroma  
New York (SUNY Downstate Medical Center Residents) - Juvenile ossifying fibroma  
New York (SUNY Stony Brook) - Aggressive psammomatoid ossifying fibroma  
New York (Westchester Medical Center) - Langerhans cell histiocytosis vs. osteosarcoma  
Ohio, Columbus - Juvenile ossifying fibroma  
Ohio (The Cleveland Clinic Residents) - Ossifying fibroma  
Ohio (University of Toledo Residents) - Juvenile ossifying fibroma, psammomatoid type  
Pennsylvania (Conemaugh Memorial Medical Center) - Osteoblastic osteosarcoma  
Pennsylvania (Drexel University College of Medicine Residents) - Calcifying fibroma  
Puerto Rico (University of Puerto Rico) - Cement ossifying fibroma vs. fibrous dysplasia  
Tennessee, Knoxville - Fibrous dysplasia  
Texas, Crystal Beach - Juvenile ossifying fibroma  
Texas, Lubbock - Ameloblastoma  
Wisconsin, Madison - Meningioma  
Wisconsin (Medical Assessment and Consultation, SC) - Calcifying epithelial odontogenic tumor  
Australia (St. Vincents Hospital) - Maxilla, psammomatoid juvenile ossifying fibroma  
Canada (Pasqua Hospital) - Juvenile ossifying fibroma  
Canada (University of Sherbrooke) - Osteosarcoma, well-differentiated  
Ireland (University College Hospital) - Juvenile psammomatoid ossifying fibroma  
Japan (Asahi General Hospital) - Fibrous dysplasia  
Japan, Setagaya-Ku - Fibrous dysplasia  
Japan (University of Yamanashi) - Osteosarcoma of jaw bone  
Saudi Arabia (King Khalid University Hospital) - Psammomatous juvenile ossifying fibroma  
Singapore (Freelance/Locum Practice) - Ossifying fibroma  
Spain (Provisa Medical Center) - Juvenile aggressive ossifying psammomatous fibroma  
United Kingdom (John Radcliffe Hospital) - Ossifying fibroma

**Case 1 - Diagnosis:**

Juvenile ossifying fibroma, psammomatoid type, maxilla  
T-22100, M-92740

**Case 1 - References:**

Juvenile ossifying fibroma of maxilla: report of a case. Juneja M; Kamboj M. *J Clin Pediatr Dent* 2008; Fall;33(1): p55-8.

Juvenile ossifying fibroma of the maxilla. Sun G; Chen X, et al. *Int J Oral Maxillofac Surg* 2007; Jan;36(1): p82-5.

Juvenile aggressive psammomatoid ossifying fibroma: an interesting, challenging, and unusual case report and review of the literature. Smith SF; Newman L, et al. *J Oral Maxillofac Surg* 2009; Jan;67(1): p200-6.

Psammomatoid juvenile cemento-ossifying fibroma of the maxilla. Yang HY; Zheng LW, et al. *J Craniofac Surg* 2009; Jul;20(4): p1190-2.

Spontaneous regeneration after juvenile ossifying fibroma resection: a case report. Espinosa SA; Villanueva J, et al. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod* 2006; Nov;102(5): p32-5.

## **Case No. 2, Accession No. 21488**

**January 2011**

Carlsbad (Genoptix Medical Laboratory) - Alveolar rhabdomyosarcoma  
Glendale - Neuroblastoma  
Loma Linda - Neuroblastoma  
Newport Beach - Neuroblastoma  
Sacramento (UCDMC) - Neuroblastoma, grade 3  
San Diego (Naval Medical Center) - Neuroblastoma  
Florida (Munroe Regional Medical Center) - Neuroblastoma  
Florida (Naples Pathology Associates) - Rhabdomyosarcoma  
Georgia, Atlanta - Differentiating neuroblastoma  
Illinois (Heartland Regional Medical Center) - Neuroblastoma  
Illinois (Memorial Medical Center) - Primitive neuroectodermal tumor/Ewing's sarcoma  
Kansas (Coffeyville Regional Medical Center) - Neuroblastoma  
Kansas (Peterson Laboratory Services) - Neuroblastoma  
Maryland (University of Maryland Residents) - Neuroblastoma, favorable histology  
Massachusetts (BWH Pathology) - Neuroblastoma  
Michigan (Henry Ford Hospital Residents) - Alveolar soft part sarcoma  
Michigan (Pinkus Dermatopathology Laboratory) - Neuroblastoma  
New York (SUNY Downstate Medical Center Residents) - Neuroblastoma  
New York (SUNY Stony Brook) - Malignant teratoma  
New York (Westchester Medical Center) - Neuroblastoma (poorly differentiated)  
Ohio, Columbus - Round blue cell malignancy of childhood; ddx: neuroblastoma vs. rhabdomyosarcoma vs. Wilms tumor vs. malignant rhabdoid tumor vs. germ cell malignancy  
Ohio (The Cleveland Clinic Residents) - Neuroblastoma  
Ohio (University of Toledo Residents) - Poorly differentiated neuroblastoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Neuroblastoma  
Pennsylvania (Drexel University College of Medicine Residents) - PNET  
Puerto Rico (University of Puerto Rico) - Neuroblastoma  
Tennessee, Knoxville - Neuroblastoma  
Texas, Crystal Beach - Malignant peripheral neuroectodermal tumor  
Texas, Lubbock - Neuroblastoma  
Wisconsin, Madison - Neuroblastoma  
Wisconsin (Medical Assessment and Consultation, SC) - Neuroblastoma  
Australia (St. Vincents Hospital) - Neuroblastoma  
Canada (Pasqua Hospital) - Neuroblastoma  
Canada (University of Sherbrooke) - Neuroblastoma  
Ireland (University College Hospital) - Neuroblastoma  
Japan (Asahi General Hospital) - Neuroblastoma  
Japan, Setagaya-Ku - Neuroblastoma  
Japan (University of Yamanashi) - Primitive neuroectodermal tumor  
Saudi Arabia (King Khalid University Hospital) - Neuroblastoma  
Singapore (Freelance/Locum Practice) - Neuroblastoma, poorly differentiated  
Spain (Provisa Medical Center) - Neuroblastoma

United Kingdom (John Radcliffe Hospital) - PNET/Ewings

**Case 2 - Diagnosis:**

Neuroblastoma, retroperitoneal  
T-Y4600, M-95003

**Case 2 - References:**

Neuroblastoma: biology and staging. Mueller S; Matthay KK. *Curr Oncol Rep* 2009; Nov;11(6): p431-8.

Targeted molecular therapy for neuroblastoma: the ARF/MDM2/p53 axis. Kim E; Shohet J. *J Natl Cancer Inst* 2009; Nov 18;101(22): p1527-9.

Coexistence of a giant splenic hemangioma and multiple hepatic hemangiomas mimicking a left adrenal neuroblastoma accompanied with multifocal hepatic metastases: pyrite answer. Wang J; Pei G; Yan J; Zhang G. *J Pediatr Hematol Oncol* 2009; Dec;31(12): p983-4.

Overall genomic pattern is a predictor of outcome in neuroblastoma. Janoueix-Lerosey I; Schleiermacher G, et al. *J Clin Oncol* 2009; Mar 1;27(7): p1026-33.

Anaplastic large cell neuroblastoma. Abramowsky CR; Katzenstein HM; Alvarado CS; Shehata BM. *Pediatr Dev Pathol* 2009; Jan-Feb;12(1): p1-5.

Progress in defining and treating high-risk neuroblastoma: lessons from the bench and bedside. Volchenboum SL; Cohn SL. *J Clin Oncol* 2009; Mar 1;27(7): p1003-4.

**Case No. 3, Accession No. 31019**

**January 2011**

Carlsbad (Genoptix Medical Laboratory) - Medulloblastoma

Glendale - Medulloblastoma

Loma Linda - Cellular astrocytoma

Newport Beach - Medulloblastoma

Sacramento (UCDMC) - Medulloblastoma

San Diego (Naval Medical Center) - Medulloblastoma

Florida (Munroe Regional Medical Center) - Medulloblastoma

Florida (Naples Pathology Associates) - Pineoblastoma

Georgia, Atlanta - Medulloblastoma

Illinois (Heartland Regional Medical Center) - Medulloblastoma

Illinois (Memorial Medical Center) - Desmoplastic medulloblastoma

Kansas (Coffeyville Regional Medical Center) - Medulloblastoma

Kansas (Peterson Laboratory Services) - Medulloblastoma

Maryland (University of Maryland Residents) - Medulloblastoma

Massachusetts (BWH Pathology) - Medulloblastoma

Michigan (Henry Ford Hospital Residents) - Medulloblastoma

Michigan (Pinkus Dermatopathology Laboratory) - Medulloblastoma

New York (SUNY Downstate Medical Center Residents) - Medulloblastoma

New York (SUNY Stony Brook) - Medulloblastoma

New York (Westchester Medical Center) - Pylocytic astrocytoma

Ohio, Columbus - Medulloblastoma

Ohio (The Cleveland Clinic Residents) - Medulloblastoma

Ohio (University of Toledo Residents) - Medulloblastoma

Pennsylvania (Conemaugh Memorial Medical Center) - Medulloblastoma

Pennsylvania (Drexel University College of Medicine Residents) - Medulloblastoma

Puerto Rico (University of Puerto Rico) - Medulloblastoma

Tennessee, Knoxville - Medulloblastoma

Texas, Crystal Beach - Pineal parenchymal tumor (pineocytoma)  
Texas, Lubbock - Medulloblastoma  
Wisconsin, Madison - Medulloblastoma  
Wisconsin (Medical Assessment and Consultation, SC) - Medulloblastoma  
Australia (St. Vincents Hospital) - Medulloblastoma  
Canada (Pasqua Hospital) - Medulloblastoma  
Canada (University of Sherbrooke) - Medulloblastoma  
Ireland (University College Hospital) - Medulloblastoma  
Japan (Asashi General Hospital) - Medulloblastoma  
Japan, Setagaya-Ku - Neurocytoma  
Japan (University of Yamanashi) - Medulloblastoma  
Saudi Arabia (King Khalid University Hospital) - Medulloblastoma  
Singapore (Freelance/Locum Practice) - Medulloblastoma  
Spain (Provisa Medical Center) - Medulloblastoma  
United Kingdom (John Radcliffe Hospital) - Anaplastic astrocytoma

### **Case 3 - Diagnosis:**

Medulloblastoma, posterior fossa  
 T-Y0450, M-94703

### **Case 3 - References:**

Medulloblastoma: role of developmental pathways, DNA repair signaling, and other players. Saran A. *Curr Mol Med* 2009; Dec;9(9): p1046-57.

Medulloblastoma. Dhall G. *J Child Neurol* 2009; Nov;24(11): p1418-30.

"Primary" leptomeningeal medulloblastoma. Mehta RI; Cutler AR, et al. *Hum Pathol* 2009; Nov;40(11): p1661-5.

Medulloblastoma: clinicopathologic evaluation of 42 pediatric cases. Ertan Y; Sezak M, et al. *Childs Nerv Syst* 2009; Mar;25(3): p353-6.

Medulloblastoma stem cells. Fan X; Eberhart CG. *J Clin Oncol* 2008; Jun 10;26(17): p2821-7.

Histologic features and prognosis in pediatric medulloblastoma. Verma S; Tavaré CJ; Gilles FH. *Pediatr Dev Pathol* 2008; Sep-Oct;11(5): p337-43.

### **Case No. 4, Accession No. 30758**

**January 2011**

Carlsbad (Genoptix Medical Laboratory) - Anaplastic oligodendroglioma  
Glendale - Clear cell meningioma  
Loma Linda - Paraganglioma  
Newport Beach - Meningioma  
Sacramento (UCDMC) - Meningioma  
San Diego (Naval Medical Center) - Anaplastic ependymoma  
Florida (Munroe Regional Medical Center) - Ependymoma  
Florida (Naples Pathology Associates) - Anaplastic meningioma  
Georgia, Atlanta - Anaplastic meningioma  
Illinois (Heartland Regional Medical Center) - Malignant neoplasm (needs special stains)  
Illinois (Memorial Medical Center) - Subependymal giant cell astrocytoma  
Kansas (Coffeyville Regional Medical Center) - Ependymoma  
Kansas (Peterson Laboratory Services) - Astroblastoma  
Maryland (University of Maryland Residents) - Favor high grade meningioma with clear cell features;  
 immunohistochemical stains are required for definitive diagnosis  
Massachusetts (BWH Pathology) - Ependymoma

Michigan (Henry Ford Hospital Residents) - Ependymoma  
Michigan (Pinkus Dermatopathology Laboratory) - Metastatic carcinoma  
New York (SUNY Downstate Medical Center Residents) - Anaplastic ependymoma, choroid plexus carcinoma  
New York (SUNY Stony Brook) - Anaplastic ependymoma  
New York (Westchester Medical Center) - Oligodendroglioma vs. ependymoma  
Ohio, Columbus - Favor metastatic carcinoma  
Ohio (The Cleveland Clinic Residents) - Clear cell epithelioid variant of GBM  
Ohio (University of Toledo Residents) - Astrocytoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Anaplastic oligodendroglioma  
Pennsylvania (Drexel University College of Medicine Residents) - Choroid carcinoma  
Puerto Rico (University of Puerto Rico) - Anaplastic ependymoma  
Tennessee, Knoxville - Anaplastic oligodendroglioma  
Texas, Crystal Beach - Papillary meningioma  
Texas, Lubbock - Anaplastic oligodendroglioma  
Wisconsin, Madison - Choroid plexus carcinoma  
Wisconsin (Medical Assessment and Consultation, SC) - Hemangioblastoma  
Australia (St. Vincents Hospital) - Ependymoblastoma  
Canada (Pasqua Hospital) - Meningioma  
Canada (University of Sherbrooke) - Astroblastoma vs. extraventricular ependymoma  
Ireland (University College Hospital) - Glioblastoma multiforme  
Japan (Asashi General Hospital) - Oligodendroglioma  
Japan, Setagaya-Ku - Oligodendroglioma  
Japan (University of Yamanashi) - Anaplastic ependymoma  
Saudi Arabia (King Khalid University Hospital) - High grade meningioma with clear cell features  
Singapore (Freelance/Locum Practice) - Malignant meningioma  
Spain (Provisa Medical Center) - Anaplastic ependymoma  
United Kingdom (John Radcliffe Hospital) - Anaplastic ependymoma

#### **Case 4 - Diagnosis:**

Anaplastic ependymoma, parietal  
 T-X2302, M-93923

#### **Case 4 - References:**

Divergent ependymal tumor (ependymoblastoma/anaplastic ependymoma) of the posterior fossa: an uncommon case observed in a child. Ortiz J; Otero A, et al. *J Child Neurol* 2008; Sep;23(9): p1058-61.  
  
 Extraneural metastases in anaplastic ependymoma. Kumar P; Rastogi N, et al. *J Cancer Res Ther* 2007; Apr-Jun;3(2): p102-4.  
  
 Anaplastic ependymoma with cartilaginous and osseous metaplasia: report of a rare case and review of literature. Mridha AR; Sharma MC, et al. *J Neuro Oncol* 2007; Mar;82(1): p75-80.  
  
 Dissemination limits the survival of patients with anaplastic ependymoma after extensive surgical resection, meticulous follow up, and intensive treatment for recurrence. Saito R; Kumabe T, et al. *Neurosurg Rev* 2010; Apr;3(2): p185-91; discussion 191-2.  
  
 Huge supratentorial extraventricular anaplastic ependymoma presenting with massive calcification--case report. Hamano E; Tsutsumi S, et al. *Neurol Med Chir Tokyo* 2010; 50(2): p150-3.

**Case No. 5, Accession No. 30915**

**January 2011**

Carlsbad (Genoptix Medical Laboratory) - Extraskeletal myxoid chondrosarcoma  
Glendale - Myxoid liposarcoma  
Loma Linda - Myxofibroma

Newport Beach - Liposarcoma, well-differentiated  
Sacramento (UCDMC) - Myxofibrosarcoma, intermediate grade  
San Diego (Naval Medical Center) - Low grade fibromyxoid sarcoma  
Florida (Munroe Regional Medical Center) - Schwannoma  
Florida (Naples Pathology Associates) - Round cell liposarcoma  
Georgia, Atlanta - Extraskeletal myxoid chondrosarcoma  
Illinois (Heartland Regional Medical Center) - Myxofibrosarcoma  
Illinois (Memorial Medical Center) - Neuroblastoma consistent with chemotherapeutic effect  
Kansas (Coffeyville Regional Medical Center) - MPNST arising in neurofibroma  
Kansas (Peterson Laboratory Services) - Neuroblastoma  
Maryland (University of Maryland Residents) - Favor PNET, post treatment; the differential diagnosis includes fibromyxoid sarcoma  
Massachusetts (BWH Pathology) - Pilocystic astrocytoma  
Michigan (Henry Ford Hospital Residents) - Myxofibrosarcoma  
Michigan (Pinkus Dermatopathology Laboratory) - Myxoid and round cell liposarcoma  
New York (SUNY Downstate Medical Center Residents) - Myxoid chondrosarcoma  
New York (SUNY Stony Brook) - Low grade myxofibrosarcoma  
New York (Westchester Medical Center) - Round cell liposarcoma  
Ohio, Columbus - Myxopapillary ependymoma vs. neurothekeoma  
Ohio (The Cleveland Clinic Residents) - Neuroblastoma with treatment effect  
Ohio (University of Toledo Residents) - Low grade fibromyxoid sarcoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Embryonal rhabdomyosarcoma  
Puerto Rico (University of Puerto Rico) - Rule out ependymoma  
Tennessee, Knoxville - Neuroblastoma with treatment effect  
Texas, Crystal Beach - Glioma  
Texas, Lubbock - Neuroblastoma  
Wisconsin, Madison - Low grade fibromyxoid sarcoma  
Wisconsin (Medical Assessment and Consultation, SC) - Sarcoma, favor myxoid fibrosarcoma  
Australia (St. Vincents Hospital) - Favor PNET  
Canada (Pasqua Hospital) - Neuroblastoma  
Canada (University of Sherbrooke) - Round cell liposarcoma  
Ireland (University College Hospital) - Extraskeletal myxoid chondrosarcoma  
Japan (Asashi General Hospital) - Low grade fibromyxoid sarcoma  
Japan, Setagaya-Ku - Angiomyxoma  
Japan (University of Yamanashi) - Chordoma  
Saudi Arabia (King Khalid University Hospital) - Low grade fibromyxoid sarcoma  
Singapore (Freelance/Locum Practice) - PNET, post treatment  
Spain (Provisa Medical Center) - Perineurioma  
United Kingdom (John Radcliffe Hospital) - Subependymoma

#### **Case 5 - Diagnosis:**

Undifferentiated embryonal sarcoma, left thorax  
 T-Y2220, M-89913

Consultation: Craig Zuppan, M.D. (pediatric pathologist, LLUMC): "Undifferentiated embryonal sarcoma with marked stromal edema).

#### **Case 5 - References:**

Undifferentiated embryonal sarcoma: a case report. Kowalczyk N; Carr Z. *Radiol Technol* 2010; Mar-Apr;81(4): p329-34.

Childhood undifferentiated embryonal liver sarcoma: clinical features and immunohistochemistry analysis. Wei ZG; Tang LF, et al. *J Pediatr Surg* 2008; Oct;43(10): p1912-9.

Embryonal sarcoma of the liver. Sanchez-Aguilar AC; Diaz-Flores O; Albores-Saavedra J. *Ann Hepatol* 2009; Jan-Mar;8(1): p63.



Pediatric and adult hepatic embryonal sarcoma: a comparative ultrastructural study with morphologic correlations.  
Agaram NP; Baren A; Antonescu CR. *Ultrastruct Pathol* 2006; Nov-Dec;30(6): p403-8.

Pediatric soft tissue sarcomas. Loeb DM; Thornton K; Shokek O. *Surg Clin North Am* 2008; Jun;88(3): p615-27, vii.

Novel treatment strategies for soft tissue sarcoma. Kasper B; Gil T, et al. *Crit Rev Oncol Hematol* 2007; Apr;62(1): p9-15.

**Case No. 6, Accession No. 31254**

**January 2011**

Carlsbad (Genoptix Medical Laboratory) - Myxoid/round cell liposarcoma  
Glendale - Inflammatory myofibroblastic tumor  
Loma Linda - Myxofibroma and ? of lymph node  
Newport Beach - Fibrous histiocytoma  
Sacramento (UCDMC) - Angiomyxoma  
San Diego (Naval Medical Center) - Myxoma  
Florida (Munroe Regional Medical Center) - Myxoma  
Florida (Naples Pathology Associates) - Inflammatory myofibroblastic tumor  
Georgia, Atlanta - Superficial angiomyxoma  
Illinois (Heartland Regional Medical Center) - Myxoid neoplasm, NOS  
Illinois (Memorial Medical Center) - Chondroma  
Kansas (Coffeyville Regional Medical Center) - Angiomyxoma with lymphoid reaction  
Kansas (Peterson Laboratory Services) - Angiomyxoma  
Maryland (University of Maryland Residents) - The differential diagnosis includes subcutaneous angiomyxoma, myxoma, cellular neurothekoma, low grade myxoid liposarcoma  
Massachusetts (BWH Pathology) - Chondroma  
Michigan (Henry Ford Hospital Residents) - Superficial myxoma  
Michigan (Pinkus Dermatopathology Laboratory) - Extraskelatal myxoid chondrosarcoma vs. inflammatory pseudotumor  
New York (SUNY Downstate Medical Center Residents) - Superficial angiomyxoma  
New York (SUNY Stony Brook) - Angiomatoid fibroxanthoma  
New York (Westchester Medical Center) - Cutaneous myxoma (superficial angiomyxoma)  
Ohio, Columbus - Myxoma  
Ohio (The Cleveland Clinic Residents) - Angiomatoid fibrous histiocytoma  
Ohio (University of Toledo Residents) - Myxoid hibernoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Inflammatory myofibroblastic tumor  
Pennsylvania (Drexel University College of Medicine Residents) - Low grade fibromyxoid sarcoma  
Puerto Rico (University of Puerto Rico) - Inflammatory pseudotumor/deep aggressive angiomyxoma  
Tennessee, Knoxville - Myxoma  
Texas, Crystal Beach - Myxoma consistent with lymphoid reaction  
Texas, Lubbock - Myxoma  
Wisconsin, Madison - Low grade fibromyxoid sarcoma vs. myxoinflammatory fibroblastic sarcoma  
Wisconsin (Medical Assessment and Consultation, SC) - Myxoid liposarcoma  
Australia (St. Vincents Hospital) - Favor extraskelatal myxoid chondrosarcoma  
Canada (Pasqua Hospital) - Inflammatory fibroblastic tumor  
Canada (University of Sherbrooke) - Inflammatory pseudotumor  
Ireland (University College Hospital) - Inflammatory pseudotumor, myxoid variant  
Japan (Asashi General Hospital) - Mixed tumor  
Japan, Setagaya-Ku - Malignant lymphoma  
Japan (University of Yamanashi) - Chordoma  
Saudi Arabia (King Khalid University Hospital) - Cellular myxoma  
Singapore (Freelance/Locum Practice) - Chordoma

Spain (Provisa Medical Center) - Aggressive angiomyxoma  
United Kingdom (John Radcliffe Hospital) - Chordoma

**Case 6 - Diagnosis:**

Myxoid neoplasm with probably recurrent potential, perineal  
T-46800, M-80001

Consultation: Dr. Cheryl Coffin, Vanderbilt University: “Myxoid neoplasm with recurrent potential, probably myxoid variant of inflammatory myofibroblastic tumor.”

**Case 6 - References:**

Inflammatory myofibroblastic tumor of abdomen: computerized tomographic (CT) and pathological findings.  
Yamrubboon W; Phongkitkarun S, et al. *J Med Assoc Thai* 2008; Sep;91(9): p1487-93.

Inflammatory myofibroblastic tumor of the perirenal soft tissue misdiagnosed as renal cell carcinoma. Bektas S; Okulu E, et al. *Pathol Res Pract* 2007;203(6): p461-5.

Inflammatory myofibroblastic tumor of the abdominal wall simulating rhabdomyosarcoma: report of a case.  
Pratap A; Tiwari A, et al. *Surg Today* 2007;37(4): p352-5.

Inflammatory myofibroblastic tumor of the liver. Solomon GJ; Kinkhabwala MM; Akhtar M. *Arch Pathol Lab Med* 2006; Oct;130(10): p1548-51.

Inflammatory myofibroblastic tumors of the urinary tract: a clinicopathologic study of 46 cases, including a malignant example inflammatory fibrosarcoma and a subset associated with high-grade urothelial carcinoma.  
Montgomery EA; Shuster DD; Burkart AL; Esteban JM; Sgrignoli A; Elwood L; Vaughn DJ; Griffin CA; Epstein JI. *Am J Surg Pathol* 2006; Dec;30(12): p1502-12.

Inflammatory myofibroblastic tumor: comparison of clinicopathologic, histologic, and immunohistochemical features including ALK expression in atypical and aggressive cases. Coffin CM; Hornick JL; Fletcher CD. *Am J Surg Pathol* 2007; Apr;31(4): p509-20.

Intra-abdominal inflammatory myofibroblastic pseudotumor: case report and review of the literature. Bronzino P; Abbo L, et al. *G Chir* 2005; Oct;26(10): p362-4.

**Case No. 7, Accession No. 30923**

**January 2011**

Carlsbad (Genoptix Medical Laboratory) - Wilms tumor  
Glendale - Wilms  
Loma Linda - Wilms tumor  
Newport Beach - Wilms tumor  
Sacramento (UCDMC) - Wilms tumor  
San Diego (Naval Medical Center) - Nephroblastoma  
Florida (Munroe Regional Medical Center) - Wilms tumor  
Florida (Naples Pathology Associates) - Wilms tumor  
Georgia, Atlanta - Wilms tumor  
Illinois (Heartland Regional Medical Center) - Nephroblastoma  
Illinois (Memorial Medical Center) - Nephroblastoma  
Kansas (Coffeyville Regional Medical Center) - Nephroblastoma (Wilms tumor)  
Kansas (Peterson Laboratory Services) - Nephroblastoma  
Maryland (University of Maryland Residents) - Wilms tumor  
Massachusetts (BWH Pathology) - Mesoblastic nephroma  
Michigan (Henry Ford Hospital Residents) - Wilms tumor  
Michigan (Pinkus Dermatopathology Laboratory) - Wilms tumor

New York (SUNY Downstate Medical Center Residents) - Wilms tumor  
New York (SUNY Stony Brook) - Wilms tumor  
New York (Westchester Medical Center) - Wilms tumor with apparently good chemotherapy response  
Ohio, Columbus - Wilms tumor  
Ohio (The Cleveland Clinic Residents) - Wilms tumor  
Ohio (University of Toledo Residents) - Wilms tumor  
Pennsylvania (Conemaugh Memorial Medical Center) - Wilms tumor (nephroblastoma), post chemotherapy)  
Pennsylvania (Drexel University College of Medicine Residents) - Wilms tumor  
Puerto Rico (University of Puerto Rico) - Wilms tumor  
Tennessee, Knoxville - Wilms tumor with treatment effect  
Texas, Crystal Beach - Wilms tumor  
Texas, Lubbock - Wilms tumor  
Wisconsin, Madison - Wilms tumor  
Wisconsin (Medical Assessment and Consultation, SC) - Nephroblastoma (Wilms tumor)  
Australia (St. Vincents Hospital) - Nephroblastoma  
Canada (Pasqua Hospital) - Nephroblastoma  
Canada (University of Sherbrooke) - Wilms tumor post chemotherapy  
Ireland (University College Hospital) - Wilms tumor  
Japan (Asahi General Hospital) - Nephroblastoma  
Japan, Setagaya-Ku - Congenital mesoblastic nephroma  
Japan (University of Yamanashi) - Nephroblastoma  
Saudi Arabia (King Khalid University Hospital) - Wilms tumor, favorable histology  
Singapore (Freelance/Locum Practice) - Nephroblastoma  
Spain (Provisa Medical Center) - Wilms tumor  
United Kingdom (John Radcliffe Hospital) - Wilms tumor

#### **Case 7 - Diagnosis:**

Wilms tumor, right kidney  
 T-71000, M-89603

#### **Case 7 - References:**

- Does preoperative chemotherapy ease the surgical procedure for Wilms tumor? Bogaert GA; Heremans B, et al. *J Urol* 2009; Oct;182(4 Suppl): p1869-74.
- Cystic nephroma, cystic partially differentiated nephroblastoma and cystic Wilms' tumor in children: a spectrum with therapeutic dilemmas. van den Hoek J; de Krijger R. et al. *Urol Int* 2009; 82(1): p65-70.
- Amplification and expression of EGFR and ERBB2 in Wilms tumor. Vasei M; Modjtahedi H, et al. *Cancer Genet Cytogenet* 2009; Oct 15;194(2): p88-95.
- Secondary neoplasms after Wilms' tumor in Germany. Nourkani N; Furtwangler R, et al. *Strahlenther Onkol* 2009; Aug;185 Suppl 2:11-2.
- C-kit protein expression in Wilms' tumour: an immunohistochemical study. Giordano G; Campanini N, et al. *Eur J Surg Oncol* 2009; Jun;35(6): p629-35.
- Wilms tumour histology is determined by distinct types of precursor lesions and not epigenetic changes. Fukuzawa R; Anaka MR, et al. *J Pathol* 2008; Aug;215(4): p377-87.
- An update on the management of Wilms' tumour. Ahmed HU; Arya M, et al. *Eur J Surg Oncol* 2007; Sep;33(7): p824-31.
- Teratoid Wilms' tumor: a case report with literature review. Inoue M; Uchida K, et al. *J Pediatr Surg* 2006; Oct;41(10): p1759-63.

Carlsbad (Genoptix Medical Laboratory) - Macromastia  
Glendale - Adenomyoepithelioma, spindle cell variant  
Loma Linda - Juvenile cystosarcoma phyllodes  
Newport Beach - Phyllodes tumor  
Sacramento (UCDMC) - Juvenile fibroadenoma  
San Diego (Naval Medical Center) - Juvenile fibroadenoma  
Florida (Munroe Regional Medical Center) - Juvenile fibroadenoma  
Florida (Naples Pathology Associates) - Juvenile fibroadenoma  
Georgia, Atlanta - Juvenile fibroadenoma  
Illinois (Heartland Regional Medical Center) - Juvenile fibroadenoma  
Illinois (Memorial Medical Center) - Gynecomastia  
Kansas (Coffeyville Regional Medical Center) - Juvenile fibroadenoma consistent with ductal papillomatosis  
Kansas (Peterson Laboratory Services) - Juvenile fibroadenoma  
Maryland (University of Maryland Residents Residents) - Juvenile fibroadenoma  
Massachusetts (BWH Pathology) - Phyllodes tumor (benign)  
Michigan (Henry Ford Hospital Residents) - Juvenile fibroadenoma  
Michigan (Pinkus Dermatopathology Laboratory) - Phyllodes tumor  
New York (SUNY Downstate Medical Center Residents) - Juvenile fibroadenoma, pubertal macromastia  
New York (SUNY Stony Brook) - Juvenile fibroadenoma  
New York (Westchester Medical Center) - Giant fibroadenoma  
Ohio, Columbus - Benign phyllodes tumor  
Ohio (The Cleveland Clinic Residents) - Juvenile papillomatosis  
Ohio (University of Toledo Residents) - Juvenile fibroadenoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Juvenile fibroadenoma of breast (giant fibroadenoma)  
Pennsylvania (Drexel University College of Medicine Residents) - Juvenile fibroadenoma  
Puerto Rico (University of Puerto Rico) - Juvenile fibroadenoma  
Tennessee, Knoxville - Juvenile fibroadenoma  
Texas, Crystal Beach - Juvenile fibroadenoma  
Texas, Lubbock - Myofibroblastoma  
Wisconsin, Madison - Fibroadenoma  
Wisconsin (Medical Assessment and Consultation, SC) - Phyllodes tumor  
Australia (St. Vincents Hospital) - Juvenile fibroadenoma  
Canada (Pasqua Hospital) - Juvenile atypical duct hyperplasia  
Canada (University of Sherbrooke) - Fibroadenoma  
Ireland (University College Hospital) - Hamartoma  
Japan (Asashi General Hospital) - Juvenile fibroadenoma  
Japan, Setagaya-Ku - Juvenile fibroadenoma  
Japan (University of Yamanashi) - Juvenile fibroadenoma  
Saudi Arabia (King Khalid University Hospital) - Virginal hypertrophy of breast (macromastia)  
Singapore (Freelance/Locum Practice) - Juvenile hypertrophy  
Spain (Provisa Medical Center) - Juvenile fibroadenoma  
United Kingdom (John Radcliffe Hospital) - Desmoplastic small cell tumor

**Case 8 - Diagnosis:**

Juvenile fibroadenoma, breast  
T-04000, M-90300

**Case 8 - References:**

Juvenile fibroadenoma in 13-month-old female child. Jung YS; Lee KJ, et al. *J Paediatr Child Health* 2005; Jan-Feb;41(1-2): p78-9.

Recurrence of giant juvenile breast fibroadenoma in a girl with Turner's syndrome. Calcaterra V; Coscia DR, et al. *J Pediatr Endocrinol Metab* 2009; Mar;22(3): p281-3.

Bilaterally symmetric juvenile fibroadenomas and tubular breast deformity in a prepubescent girl. Moore RL; Mungara A, et al. *J Pediatr Surg* 2007; Jun;42(6): p1133-6.

Uptake characteristics of FDG in multiple juvenile cellular fibroadenomata of the breast: FDG-PET and histopathologic correlation. Basu S; Nair N, et al. *Clin Nucl Med* 2007; Mar;32(3): p203-4.

Unilateral gigantomastia related to juvenile fibroadenoma with idiopathic thoracic scoliosis. Wolfram D; Behensky H; Piza-Katzer H. *J Pediatr Adolesc Gynecol* 2009; Jun;22(3): pe25-7.

**Case No. 9, Accession No. 24489**

**January 2011**

Carlsbad (Genoptix Medical Laboratory) - Desmoplastic small round cell tumor  
Glendale - Desmoplastic small round cell tumor  
Loma Linda - Carcinoid tumor  
Newport Beach - PNET/Ewings extraskeletal  
Sacramento (UCDMC) - Desmoplastic small round cell tumor  
San Diego (Naval Medical Center) - Desmoplastic small round cell tumor  
Florida (Munroe Regional Medical Center) - Rhabdoid tumor vs. desmoplastic small round cell  
Florida (Naples Pathology Associates) - Desmoplastic small round cell tumor  
Georgia, Atlanta - Desmoplastic small round cell tumor  
Illinois (Heartland Regional Medical Center) - Desmoplastic small round cell tumor  
Illinois (Memorial Medical Center) - Desmoplastic small round cell tumor  
Kansas (Coffeyville Regional Medical Center) - PNET/Ewings sarcoma  
Kansas (Peterson Laboratory Services) - Desmoplastic small round cell tumor  
Maryland (University of Maryland Residents) - Desmoplastic small round cell tumor  
Massachusetts (BWH Pathology) - Desmoplastic small round cell tumor  
Michigan (Henry Ford Hospital Residents) - Neuroblastoma  
Michigan (Pinkus Dermatopathology Laboratory) - Desmoplastic round cell tumor  
New York (SUNY Downstate Medical Center Residents) - Desmoplastic small round cell tumor  
New York (SUNY Stony Brook) - Desmoplastic small round cell tumor  
New York (Westchester Medical Center) - Desmoplastic small round cell tumor  
Ohio, Columbus - Desmoplastic small round cell tumor  
Ohio (The Cleveland Clinic Residents) - Desmoplastic small round cell tumor  
Ohio (University of Toledo Residents) - Desmoplastic small cell tumor  
Pennsylvania (Conemaugh Memorial Medical Center) - Desmoplastic small round cell tumor  
Pennsylvania (Drexel University College of Medicine Residents) - Desmoplastic small round blue cell tumor  
Puerto Rico (University of Puerto Rico) - Desmoplastic small round cell tumor  
Tennessee, Knoxville - Desmoplastic small round blue cell tumor  
Texas, Crystal Beach - Neuroendocrine carcinoma  
Texas, Lubbock - Desmoplastic small cell tumor  
Wisconsin, Madison - Desmoplastic small round cell tumor  
Wisconsin (Medical Assessment and Consultation, SC) - Malignant neoplasm; favor rhabdomyosarcoma  
Australia (St. Vincents Hospital) - Desmoplastic small round cell tumor  
Canada (Pasqua Hospital) - Desmoplastic small round cell tumor  
Canada (University of Sherbrooke) - Small cell desmoplastic tumor  
Ireland (University College Hospital) - Peripheral neuroectodermal tumor  
Japan (Asashi General Hospital) - Well-differentiated neuroendocrine carcinoma  
Japan, Setagaya-Ku - Desmoplastic small round cell tumor  
Japan (University of Yamanashi) - Desmoplastic small round cell tumor  
Saudi Arabia (King Khalid University Hospital) - Desmoplastic small round cell tumor  
Singapore (Freelance/Locum Practice) - Desmoplastic small round cell tumor  
Spain (Provisa Medical Center) - Intraabdominal desmoplastic small round tumor  
United Kingdom (John Radcliffe Hospital) - Juvenile fibroadenoma

**Case 9 - Diagnosis:**

Desmoplastic small round cell tumor, abdomen  
T-56000, M-80000

**Case 9 - References:**

Desmoplastic small round cell tumour: a review of literature and treatment options. Stuart-Buttle CE; Smart CJ. *Surg Oncol* 2008; Aug;17(2): p107-12.

Desmoplastic small round cell tumor: a clinical, pathological, and immunohistochemical study of 18 Chinese cases. Liping Cao; Jun Ni, et al. *Int J Surg Pathol* 2008; Jul;16(3): p257-62.

Desmoplastic small round cell tumor: using FISH as an ancillary technique to support cytologic diagnosis in an unusual case. Waugh MS; Dash RC, et al. *Diagn Cytopathol* 2007; Aug;35(8): p516-20.

Epithelial marker-negative desmoplastic small round cell tumor with atypical morphology: definitive classification by fluorescence in situ hybridization. Zhang J; Dalton J; Fuller C. *Arch Pathol Lab Med* 2007; Apr;131(4): p646-9.

Desmoplastic small round cell tumors: cytologic, histologic, and immunohistochemical features. Chang F. *Arch Pathol Lab Med* 2006; May;130(5): p728-32.

**Case No. 10, Accession No. 12668****January 2011**

Carlsbad (Genoptix Medical Laboratory) - Hypertrophic cardiomyopathy  
Glendale - Cardiomyopathy  
Loma Linda - Gyeogenosis, Pompe disease/glycogen storage disease, type 2  
Newport Beach - Idiopathic hypertrophic cardiomyopathy  
Sacramento (UCDMC) - Fabry's disease  
San Diego (Naval Medical Center) - Glycogen storage disease (probably Pompe disease)  
Florida (Munroe Regional Medical Center) - Melas  
Florida (Naples Pathology Associates) - Glycogen storage disease  
Georgia, Atlanta - Cardiac rhabdomyoma  
Illinois (Heartland Regional Medical Center) - Hypertrophic cardiomyopathy  
Illinois (Memorial Medical Center) - Hypertrophic cardiomyopathy  
Kansas (Coffeyville Regional Medical Center) - Angiofibroma consistent with focal ossification  
Kansas (Peterson Laboratory Services) - Hypertrophic cardiomyopathy  
Maryland (University of Maryland Residents) - Favor glycogen storage disease  
Massachusetts (BWH Pathology) - Pompe disease (type II glycogen storage disease)  
Michigan (Henry Ford Hospital Residents) - Histiocytoid cardiomyopathy  
Michigan (Pinkus Dermatopathology Laboratory) - Histiocytoid cardiomyopathy  
New York (SUNY Downstate Medical Center Residents) - Glycogenosis, type 2 (Pompe disease) infantile onset  
New York (SUNY Stony Brook) - Fabry's disease  
New York (Westchester Medical Center) - Storage disorder  
Ohio, Columbus - Myocyte hypertrophy and hyperplasia  
Ohio (The Cleveland Clinic Residents) - Fabry's disease  
Ohio (University of Toledo Residents) - Pompe disease  
Pennsylvania (Conemaugh Memorial Medical Center) - Cardiomyopathy/cardiac myodystrophy  
Pennsylvania (Drexel University College of Medicine Residents) - Glycogen storage disease  
Puerto Rico (University of Puerto Rico) - Calcifying fibrous pseudotumor, rule out Pompe disease  
Tennessee, Knoxville - Cardiac storage disease (possibly Pompe disease)  
Texas, Crystal Beach - Cardiomyopathy  
Texas, Lubbock - Glycogen storage disease  
Wisconsin, Madison - Glycogen storage disease  
Wisconsin (Medical Assessment and Consultation, SC) - Heart involved by glycogen storage disease (Pompe disease)

Australia (St. Vincents Hospital) - Storage disorder (heart)  
Canada (Pasqua Hospital) - Glycogen storage disease  
Canada (University of Sherbrooke) - Hypertrophic cardiomyopathy  
Ireland (University College Hospital) - Rhabdomyoma  
Japan (Asashi General Hospital) - Endocardial fibroelastosis  
Japan , Setagaya-Ku - Congenital cardiomyopathy, central core disease  
Japan (University of Yamanashi) - Pompe disease  
Saudi Arabia (King Khalid University Hospital) - Cardiomyopathy, hypertrophic type  
Singapore (Freelance/Locum Practice) - Cardiac rhabdomyoma  
Spain (Provisa Medical Center) - Infantile hypertrophic cardiomyopathy  
United Kingdom (John Radcliffe Hospital) - Glycogen storage disease (McArdles disease)

**Case 10 - Diagnosis:**

Glycogenosis (Pompe's disease), myocardium  
 T-33010, D-1251

**Case 10 - References:**

High-resolution light microscopy (HRLM) and digital analysis of Pompe disease pathology. Lynch CM; Johnson J, et al. *J Histochem Cytochem* 2005; Jan;53(1): p63-73.

Glycogen storage diseases presenting as hypertrophic cardiomyopathy. Arad M; Maron BJ, et al. *N Engl J Med* 2005; Jan 27;352(4): p362-72.

Pompe disease in infants: improving the prognosis by newborn screening and early treatment. Chien YH; Lee NC, et al. *Pediatrics* 2009; Dec;124(6): p1116-25.

Autophagy and lysosomes in Pompe disease. Fukuda T; Roberts A, et al. *Autophagy* 2006; Oct-Dec;2(4): p318-20.

Disease severity in children and adults with Pompe disease related to age and disease duration. Hagemans ML; Winkel LP, et al. *Neurology* 2005; Jun 28;64(12): p2139-41.

Pompe's disease. van der Ploeg AT; Reuser AJ, et al. *Lancet* 2008; Oct 11;372(9646): p1342-53.