

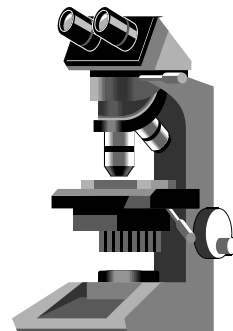


CALIFORNIA  
TUMOR TISSUE REGISTRY

*PATHOLOGY OF SOFT TISSUES*

Minutes – Subscription A

April 2013



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

Role of CD10, Wide-Spectrum Keratin, p63, and Podoplanin in the Distinction of Epithelioid and Spindle Cell Tumors of the Skin: An Immunohistochemical Study of 81 Cases. Buonaccorsi JN, Plaza JA. *Am J Dermatopathol* 2012;34:404-411.

Impact on the Clinical Outcome of Prostate Cancer by the 2005 International Society of Urological Pathology Modified Gleason Grading System. Dong F, Wang C, et al. *Am J Surg Pathol* 2012;36:838-843.

NUT Midline Carcinomas of the Sinonasal Tract. Bishop JA, Westra WH. *Am J Surg Pathol* 2012. epub ahead of print.

Discovered on Gastrointestinal Stromal Tumour 1 (DOG1): A Useful immunohistochemical Marker for Diagnosing Chondroblastoma. *Histopathology* 2012;60:1099-1106.

Molecular Testing in Colorectal Cancer: Diagnosis of Lynch Syndrome and Personalized Cancer Medicine. Shi C, Washington K. *Am J Clin Pathol* 2012; 137:847-849.

California Tumor Tissue Registry  
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Web site & Case of the Month: [www.cttr.org](http://www.cttr.org)

## **FILE DIAGNOSES**

**CTTR Subscription A**

**April 2013**

**Case 1:**

Intraabdominal fibromatosis, pancreas

**Case 2:**

Angiomyolipoma, kidney

**Case 3:**

Mesothelioma, omentum

**Case 4:**

Clear cell sarcoma, leg

**Case 5:**

Desmoplastic small round cell tumor, omentum and multiple serosal sites

**Case 6:**

Gastrointestinal stromal tumor (GIST), likely malignant, stomach, peritoneum and other sites

**Case 7:**

Angiosarcoma, ileum

**Case 8:**

Rhabdomyosarcoma with alveolar features (Alveolar rhabdomyosarcoma), retroperitoneum

**Case 9:**

Pleomorphic sarcoma with myogenous features, thigh

**Case 10:**

Malignant peripheral nerve sheath tumor (MPNST) in setting of neurofibromatosis, posterior Mediastinum

Fontana (Kaiser Foundation Hospital) - Fibromatosis  
Lakewood – Fibromatosis (Desmoid)  
Long Beach (Long Beach VA) - Desmoid / Fibromatosis  
Oakland (Alameda County Medical Center) – Desmoid Fibromatosis  
Orange (UCI Medical Center) – Retroperitoneal fibromatosis (Desmoid)  
Oxnard (St. John’s Regional Medical Center) - Fibromatosis  
Santa Barbara (Miramonte Lab) - Fibromatosis  
San Diego (Naval Medical Center) - Mesenteric Fibromatosis  
Woodland Hills (Kaiser Permanente) – Nodular Fasciitis  
Arkansas (Associated Pathologists Laboratory) - Fibromatosis / Abdominal Fibromatosis (Desmoid)  
Colorado, Fort Collins - Fibromatosis  
Delaware (Armed Forces Medical Examiner System) - Low grade fibromyxoid sarcoma  
Florida (GastroEnterology Associates of Ocala) – Idiopathic Sclerosing Mesenteritis  
Georgia, Atlanta - Nodular Fasciitis  
Illinois (Heartland Regional Medical Center) - Fibromatosis, intraabdominal  
Illinois, Oakbrook – Intraabdominal Fibromatosis  
Massachusetts, Worcester (University of Massachusetts) – Desmoid fibromatosis  
Mississippi, Jackson (University of Mississippi Medical Center) – Intra-abdominal desmoids tumor  
Missouri, S. Keston (Missouri Delta Medical Center) - Fibromatosis  
New York (Erie County Medical Center) - Mesenteric fibromatosis  
New York (SUNY Stony Brook University Hospital) - Fibromatosis  
New York (Buffalo General Hospital) - Fibromatosis  
Pennsylvania (Conemaugh Memorial Medical Center) - Fibromatosis  
Pennsylvania (Lehigh Valley Hospital) - Fibromatosis  
Pennsylvania (Drexel University College of Medicine) - Fibromatosis  
Pennsylvania (Magee Women’s Hospital) - Fibromatosis  
Puerto Rico, San Juan (University of Puerto Rico) – Mesenteric fibromatosis/Intraabdominal desmoid  
South Carolina (Medical University of South Carolina) - Fibromatosis  
Tennessee, Maryville - Fibromatosis  
Texas, Crystal Beach - Retroperitoneal fibrosis  
Texas, Lubbock - Fibroma  
Washington (Seattle VAMC) - Neoplasm; spindle cell: low grade fibromyxoid growth  
West Virginia (Greenbrier Valley Medical Center) - Fibromatosis  
Wisconsin, Madison - Fibromatosis  
Wisconsin, Cross Plains (Medical Assessment and Consultations) - Mesenteric Fibromatosis  
Wisconsin, Milwaukee (Medical College of Wisconsin) - Mesenteric fibromatosis  
Australia (Royal Hobart Hospital) - Intra-Abdominal fibromatosis  
Australia (Royal Prince Alfred Hospital) – Desmoid-type fibromatosis  
Australia (St. Vincent’s Hospital) – Fibromatosis/Desmoid tumor  
Australia (Sullivan Nicolaides Path Registrars) - Fibromatosis  
Brazil (Rua Vicente Beghilli) - Fibromatosis  
Canada (Universite de Sherbrook) – Mesenteric fibromatosis  
Canada (Pasqua Hospital) – Fibromatosis  
Ireland (Bon Secours Tralee) - Fibromatosis  
Ireland (Kerry General Hospital) - Fibromatosis  
Ireland (University College Hospital) - Fibromatosis/desmoids tumor  
Japan (Asashi General Hospital) - Mesenteric fibromatosis/Intraabdominal fibromatosis  
Japan (Setagaya-Ku) - Gastrointestinal stromal tumor  
Japan (Wakayama Medical University) - Intra-abdominal fibromatosis  
Oman (Sultanate of Azaiba) - Fibromatosis  
Saudi Arabia (King Fahad Hospital Hofuf) - Fibromatosis  
Saudi Arabia (King Khalid University Hospital) - Mesenteric fibromatosis  
Singapore (Freelance/Locum Practice) - Fibromatosis  
United Kingdom (John Radcliffe Hospital) - Fibromatosis (Desmoid tumor)

**Case 1 - Diagnosis:**

Intraabdominal (mesenteric) fibromatosis, pancreas

**Case 1 - References:**

Aggressive fibromatosis (desmoid tumor) is derived from mesenchymal progenitor cells.

Cancer Res 2010 Oct 1;70(19): p7690-8

Wu C; Amini-Nik S, et al.

Identification of biological factors predictive of response to imatinib mesylate in aggressive fibromatosis.

Br J Cancer 2010 Aug 10;103(4): p482-5

Dufresne A; Bertucci F, et al.

Mesenteric fibromatosis mimicking a gastrointestinal stromal tumor.

Conn Med 2010 Apr;74(4): p197-200

McCormack D; Kesha K, et al.

Prognostic factors in desmoid-type fibromatosis: a clinicopathological and immunohistochemical analysis of 46 cases.

Pathology 2010 Feb;42(2): p147-50

Huang PW; Tzen CY

Extra-abdominal desmoid tumors: a report of 234 cases.

J Surg Oncol 2010 Oct 1;102(5): p380-4

Mankin HJ; Hornicek FJ, et al.

**Case No. 2, Accession No. 31426****April 2013**

Fontana (Kaiser Foundation Hospital) - Angiomyolipoma

Lakewood - Angiomyolipoma

Long Beach (Long Beach VA) - Angiomyolipoma

Oakland (Alameda County Medical Center) - Angiomyolipoma

Orange (UCI Medical Center) - Angiomyolipoma

Oxnard (St. John's Regional Medical Center) - Angiomyolipoma

Santa Barbara (Miramonte Lab) - Liposarcoma

San Diego (Naval Medical Center) - Epithelioid Angiomyolipoma

Woodland Hills (Kaiser Permanente) - Angiomyolipoma

Arkansas (Associated Pathologists Laboratory) - Sarcomatoid Renal Cell Carcinoma with XGP / Liposarcoma

Colorado, Fort Collins - Malakoplakia

Delaware (Armed Forces Medical Examiner System) - Angiomyolipoma

Florida (GastroEnterology Associates of Ocala) - Epithelioid Angiomyolipoma

Georgia, Atlanta - Angiomyolipoma

Illinois (Heartland Regional Medical Center) - Angiomyolipoma

Illinois, Oakbrook - Inflammatory MFH

Massachusetts, Worcester (University of Massachusetts) - Angiomyolipoma

Mississippi, Jackson (University of Mississippi Medical Center) - Angiomyolipoma

Missouri, S. Keston (Missouri Delta Medical Center) - Renal Cell Cancer, Granular type

New York (Erie County Medical Center) - Angiomyolipoma

New York (SUNY Stony Brook University Hospital) - Xanthogranulomatous pyelonephritis

New York (Buffalo General Hospital) - Xanthogranulomatous pyelonephritis

Pennsylvania (Conemaugh Memorial Medical Center) - Epithelioid Angiomyolipoma

Pennsylvania (Lehigh Valley Hospital) - Angiomyolipoma

Pennsylvania (Drexel University College of Medicine) - Liposarcoma

Pennsylvania (Magee Women's Hospital) - Xanthogranulomatous pyelonephritis

Puerto Rico, San Juan (University of Puerto Rico) - Angiomyolipoma

South Carolina (Medical University of South Carolina) - Angiomyolipoma

Tennessee, Maryville - Sarcomatoid renal cell carcinoma

Texas, Crystal Beach - Angiomyolipoma  
Texas, Lubbock – Sarcomatoid renal cell carcinoma  
Washington (Seattle VAMC) - Neoplasm/Hamartoma; Angiomyolipoma  
West Virginia (Greenbrier Valley Medical Center) - Angiomyolipoma  
Wisconsin, Madison - Angiomyolipoma  
Wisconsin, Cross Plains (Medical Assessment and Consultations) - Angiomyolipoma with sarcomatous transformation  
Wisconsin, Milwaukee (Medical College of Wisconsin) - Angiomyolipoma  
Australia (Royal Hobart Hospital) - Angiomyolipoma  
Australia (Royal Prince Alfred Hospital) – Very inflammatory, ?underlying epithelioid angiomyolipoma  
Australia (St. Vincent’s Hospital) – AML/PEComa  
Australia (Sullivan Nicolaides Path Registrars) - Angiomyolipoma  
Brazil (Rua Vicente Beghilli) - Epithelioid angiomyolipoma  
Canada (Universite de Sherbrook) – Angiomyolipoma / PEComa  
Canada (Pasqua Hospital) – Xanthogranulomatous pyelonephritis  
Ireland (Bon Secours Tralee) - Angiomyolipoma  
Ireland (Kerry General Hospital) - Angiomyolipoma  
Ireland (University College Hospital) - Xanthogranulomatous pyelonephritis  
Japan (Asahi General Hospital) - Angiomyolipoma / Renal Cell carcinoma, chromophobe type  
Japan (Setagaya-Ku) - Angiomyolipoma  
Japan (Wakayama Medical University) - Angiomyolipoma  
Oman (Sultanate of Azaiba) - Angiomyolipoma  
Saudi Arabia (King Fahad Hospital Hofuf) - Atypical epithelioid angiomyolipoma  
Saudi Arabia (King Khalid University Hospital) - Angiomyolipoma  
Singapore (Freelance/Locum Practice) - Angiomyolipoma  
United Kingdom (John Radcliffe Hospital) - Xanthogranulomatous pyelonephritis (spontaneously ruptured)

#### **Case 2 - Diagnosis:**

Angiomyolipoma (PEComa), kidney

#### **Case 2 - References:**

Multifocal renal angiomyolipoma presenting as massive intraabdominal hemorrhage.  
 Indian J Pathol Microbiol 2010 Apr-Jun;53(2): p340-1  
 Kushwaha R; Dhawan I, et al.

Trends of presentation and clinical outcome of treated renal angiomyolipoma.  
 Yonsei Med J (Korea 2010 Sep;51(5): p728-34  
 Koo KC; Kim WT, et al.

Renal epithelioid angiomyolipoma with atypia: a series of 40 cases with emphasis on clinicopathologic prognostic indicators of malignancy.  
 Am J Surg Pathol 2010 May;34(5): p715-22  
 Brimo F; Robinson B, et al.

Fine-needle aspiration of renal angiomyolipoma: a report of four cases.  
 Cytopathology 2007 Aug;18(4): p250-4  
 Handa U; Nanda A, et al.

Epithelioid angiomyolipoma of the kidney: a case report.  
 Indian J Pathol Microbiol 2007 Apr;50(2): p338-40  
 Jadhav MN; Yelikar BR, et al.

Preoperative diagnosis of renal angiomyolipoma with fine needle aspiration cytology: a report of 3 cases.  
 Acta Cytol 2006 Jul-Aug;50(4): p466-8  
 Pancholi V; Munjal K, et al.

Angiomyolipoma with epithelial cysts (AMLEC): a distinct cystic variant of angiomyolipoma.  
 Am J Surg Pathol 2006 May;30(5): p593-9

**Case No. 3, Accession No. 22788**

**April 2013**

Fontana (Kaiser Foundation Hospital) - Mesothelioma  
Lakewood - Malignant mesothelioma  
Long Beach (Long Beach VA) - Malignant mesothelioma epithelial type  
Oakland (Alameda County Medical Center) - Mesothelioma  
Orange (UCI Medical Center) – Malignant mesothelioma, epithelioid type  
Oxnard (St. John’s Regional Medical Center) - Carcinoma / malignant mesothelioma / SQ Cell Carcinoma  
Santa Barbara (Miramonte Lab) - Mesothelioma  
San Diego (Naval Medical Center) - Epithelioid Mesothelioma  
Woodland Hills (Kaiser Permanente) – Mesothelioma  
Arkansas (Associated Pathologists Laboratory) - Malignant mesothelioma  
Colorado, Fort Collins - Chondrosarcoma  
Delaware (Armed Forces Medical Examiner System) - Myxoid mesothelioma  
Florida (GastroEnterology Associates of Ocala) – Pseudomyxoma peritonei  
Georgia, Atlanta - Mesothelioma  
Illinois (Heartland Regional Medical Center) - Mesothelioma  
Illinois, Oakbrook – Diffuse epithelial malignant mesothelioma  
Massachusetts, Worcester (University of Massachusetts) – Myxoid mesothelioma  
Mississippi, Jackson (University of Mississippi Medical Center) – Mesothelioma  
Missouri, S. Keston (Missouri Delta Medical Center) - Chondrosarcoma  
New York (Erie County Medical Center) - Peritoneal malignant mesothelioma with deciduoid features  
New York (SUNY Stony Brook University Hospital) - Mesothelioma  
New York (Buffalo General Hospital) - Extraskelatal myxoid chondrosarcoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Consistent with mesothelioma  
Pennsylvania (Lehigh Valley Hospital) - Synovial sarcoma  
Pennsylvania (Drexel University College of Medicine) - Mesothelioma  
Pennsylvania (Magee Women’s Hospital) - Low grade diffuse malignant mesothelioma  
Puerto Rico, San Juan (University of Puerto Rico) – Epithelial malignant mesothelioma with rhabdoid features  
South Carolina (Medical University of South Carolina) - Extraskelatal Chondrosarcoma  
Tennessee, Maryville – Peritoneal mesothelioma  
Texas, Crystal Beach - Mesothelioma  
Texas, Lubbock – Rhabdoid tumor  
Washington (Seattle VAMC) - Neoplasm; rhabdoid; high grade  
West Virginia (Greenbrier Valley Medical Center) - Mesothelioma  
Wisconsin, Madison - Mesothelioma  
Wisconsin, Cross Plains (Medical Assessment and Consultations) - Mesothelioma  
Wisconsin, Milwaukee (Medical College of Wisconsin) - Malignant mesothelioma  
Australia (Royal Hobart Hospital) - Extra-renal rhabdoid tumor (Rhabdoid mesothelioma metastatic sex-cord stromal tumor & MPNST to be excluded)  
Australia (Royal Prince Alfred Hospital) – Unusual proliferation – differentials: mesothelial, myoepithelial, epithelioid smooth muscle tumors, radiation-induced sarcoma  
Australia (St. Vincent’s Hospital) – Mesothelioma  
Australia (Sullivan Nicolaides Path Registrars) - Mesothelioma  
Brazil (Rua Vicente Beghilli) - Sarcomatoid mesothelioma  
Canada (Universite de Sherbrook) – Malignant mesothelioma, myxoid epithelioid subtype  
Canada (Pasqua Hospital) – Mesothelioma  
Ireland (Bon Secours Tralee) - Rhabdoid tumor  
Ireland (Kerry General Hospital) - Peritoneal mesothelioma  
Ireland (University College Hospital) - Soft tissue myoepithelioma  
Japan (Asahi General Hospital) - Epithelial malignant mesothelioma/Malignant mesothelioma  
Japan (Setagaya-Ku) - Liposarcoma  
Japan (Wakayama Medical University) - Malignant mesothelioma

Oman (Sultanate of Azaiba) - Mesothelioma  
Saudi Arabia (King Fahad Hospital Hofuf) - Rhabdoid Malignant mesothelioma  
Saudi Arabia (King Khalid University Hospital) - Malignant mesothelioma  
Singapore (Freelance/Locum Practice) - Mixed tumor/myoepithelioma of soft tissue  
United Kingdom (John Radcliffe Hospital) - Mesothelioma (Deciduoid)

**Case 3 - Diagnosis:**

Mesothelioma, omentum

**Case 3 - References:**

Cytomorphologic features of primary peritoneal mesothelioma in effusion, washing, and fine-needle aspiration biopsy specimens: examination of 49 cases at one institution, including post-intraperitoneal hyperthermic chemotherapy findings.

Am J Clin Pathol 2007 Sep;128(3): p414-22

Patel NP; Taylor CA, et al.

Malignant mesothelioma: natural history, pathologic features and future therapies.

Am J Med 2007 Jul;120(7): pe7-9

Camacho LH; Mora-Bowen A, et al.

Epidemiology of peritoneal mesothelioma: a review.

Ann Oncol 2007 Jun;18(6): p985-90

Boffetta P

Diffuse malignant mesothelioma.

Arch Pathol Lab Med 2012 Aug;136(8): p882-8

Oviedo SP; Cagle PT

Localized malignant peritoneal mesothelioma arising in the mesentery of the ascending colon.

Am Surg 2012 May;78(5): pE255-7

Kim Y; Lee E, et al.

Mesothelioma: you do not have to work for it.

Diagn Cytopathol 2007 Dec;35(12): p774-7

Ampleford EJ; Ohar J

**Case No. 4, Accession No. 31429**

**April 2013**

Fontana (Kaiser Foundation Hospital) - Melanoma

Lakewood - Malignant Melanoma, Nodular type

Long Beach (Long Beach VA) - Malignant Melanoma

Oakland (Alameda County Medical Center) - Clear cell sarcoma

Orange (UCI Medical Center) - Malignant Melanoma

Oxnard (St. John's Regional Medical Center) - Malignant Melanoma vs Clear cell sarcoma

Santa Barbara (Miramonte Lab) - Clear cell sarcoma

San Diego (Naval Medical Center) - Clear cell sarcoma

Woodland Hills (Kaiser Permanente) - Clear cell sarcoma

Arkansas (Associated Pathologists Laboratory) - Amelanotic malignant melanoma/ Clear cell sarcoma (malignant melanoma of soft parts)

Colorado, Fort Collins - Malignant melanoma

Delaware (Armed Forces Medical Examiner System) - Clear cell sarcoma

Florida (GastroEnterology Associates of Ocala) - Melanoma of soft parts (clear cell sarcoma)

Georgia, Atlanta - Melanoma

Illinois (Heartland Regional Medical Center) - Clear cell sarcoma

Illinois, Oakbrook - Clear cell sarcoma

Massachusetts, Worcester (University of Massachusetts) – Clear cell sarcoma  
Mississippi, Jackson (University of Mississippi Medical Center) – Clear cell sarcoma of soft tissue  
Missouri, S. Keston (Missouri Delta Medical Center) – Clear Cell Sarcoma (vs. Melanoma)  
New York (Erie County Medical Center) - Malignant melanoma  
New York (SUNY Stony Brook University Hospital) - Clear cell sarcoma  
New York (Buffalo General Hospital) - Clear cell sarcoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Clear cell sarcoma  
Pennsylvania (Lehigh Valley Hospital) - Clear cell sarcoma  
Pennsylvania (Drexel University College of Medicine) – Clear cell sarcoma of soft parts  
Pennsylvania (Magee Women’s Hospital) - Clear cell sarcoma  
Puerto Rico, San Juan (University of Puerto Rico) – Clear cell sarcoma of soft tissue/Alveolar soft part sarcoma  
South Carolina (Medical University of South Carolina) - Clear cell sarcoma  
Tennessee, Maryville – Clear cell sarcoma vs metastatic melanoma; perform FISH for t(12;12)  
Texas, Crystal Beach - Melanoma  
Texas, Lubbock – Clear cell sarcoma  
Washington (Seattle VAMC) - Neoplasm; malignant ; melanocytic  
West Virginia (Greenbrier Valley Medical Center) - Malignant melanoma  
Wisconsin, Madison - Malignant melanoma  
Wisconsin, Cross Plains (Medical Assessment and Consultations) - Clear cell sarcoma  
Wisconsin, Milwaukee (Medical College of Wisconsin) - Clear cell sarcoma  
Australia (Royal Hobart Hospital) - Clear cell sarcoma  
Australia (Royal Prince Alfred Hospital) – Clear cell sarcoma  
Australia (St. Vincent’s Hospital) – Clear cell sarcoma of soft parts  
Australia (Sullivan Nicolaides Path Registrars) – Clear cell sarcoma  
Brazil (Rua Vicente Beghilli) - Alveolar sarcoma of soft part  
Canada (Universite de Sherbrook) – Clear cell sarcoma of soft tissue  
Canada (Pasqua Hospital) – Clear cell sarcoma  
Ireland (Bon Secours Tralee) - Clear cell sarcoma  
Ireland (Kerry General Hospital) - Clear cell sarcoma  
Ireland (University College Hospital) - Clear cell sarcoma of soft parts  
Japan (Asashi General Hospital) - Clear cell sarcoma / Clear cell sarcoma of the tendons and aponeuroses  
Japan (Setagaya-Ku) - Malignant melanoma  
Japan (Wakayama Medical University) - Malignant melanoma  
Oman (Sultanate of Azaiba) - Clear cell sarcoma of soft tissue  
Saudi Arabia (King Fahad Hospital Hofuf) - Clear cell sarcoma of soft tissue  
Saudi Arabia (King Khalid University Hospital) - Clear cell sarcoma/malignant melanoma of soft part  
Singapore (Freelance/Locum Practice) - Clear cell sarcoma  
United Kingdom (John Radcliffe Hospital) - Melanoma

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

Clear cell sarcoma, leg

Director’s note: Clear cell sarcoma is no longer synonymous with malignant melanoma of soft parts.  
 Molecular changes have shown their differences. The clinical practicality of the split, however, is uncertain  
 (drc)

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

Identification of biomarkers to distinguish clear cell sarcoma from malignant melanoma.

Hum Pathol 2012 Sep;43(9): p1463-70

Yang L; Chen Y, et al.

Molecular analysis of clear cell sarcoma with translocation (1; 6)(p32.3; q21).

Urology 2011 Sep;78(3): p684-6

Taguchi K; Kojima Y, et al.

Clear cell sarcoma of soft tissue: diagnostic dilemma in cytologic appearance.

Acta Cytol 2010 Jan-Feb;54(1): p119-21



Wilkinson A; Mahore S, et al.

Cutaneous clear cell sarcoma: a clinicopathologic, immunohistochemical, and molecular analysis of 12 cases emphasizing its distinction from dermal melanoma.

Am J Surg Pathol 2010 Feb;34(2): p216-22

Hantschke M; Mentzel T, et al.

Clear cell sarcoma of soft tissue: a clinicopathologic, immunohistochemical, and molecular analysis of 33 cases.

Am J Surg Pathol 2008 Mar;32(3): p452-60

Hisaoka M; Ishida T, et al.

## Case No. 5, Accession No. 31473

April 2013

Fontana (Kaiser Foundation Hospital) - Desmoplastic small round cell tumor  
Lakewood - Desmoplastic small round cell tumor  
Long Beach (Long Beach VA) - Desmoplastic small round blue cell tumor  
Oakland (Alameda County Medical Center) - Desmoplastic small round cell tumor  
Orange (UCI Medical Center) - Desmoplastic small blue cell tumor  
Oxnard (St. John's Regional Medical Center) - Desmoplastic small round cell tumor/GIST  
Santa Barbara (Miramonte Lab) - Desmoplastic small round cell tumor  
San Diego (Naval Medical Center) - Desmoplastic small round cell tumor  
Woodland Hills (Kaiser Permanente) - Desmoplastic small round cell tumor  
Arkansas (Associated Pathologists Laboratory) - Desmoplastic small round cell tumor  
Colorado, Fort Collins - Desmoplastic small round blue cell tumor  
Delaware (Armed Forces Medical Examiner System) - Desmoplastic small round cell tumor  
Florida (GastroEnterology Associates of Ocala) - Desmoplastic SRCT  
Georgia, Atlanta - Desmoplastic small round cell tumor  
Illinois (Heartland Regional Medical Center) - Desmoplastic small round cell tumor  
Illinois, Oakbrook - Desmoplastic small round cell tumor  
Massachusetts, Worcester (University of Massachusetts) - Desmoplastic small round cell tumor  
Mississippi, Jackson (University of Mississippi Medical Center) - Desmoplastic small round cell tumor  
Missouri, S. Keston (Missouri Delta Medical Center) - PNET  
New York (Erie County Medical Center) - Desmoplastic small round cell tumor  
New York (SUNY Stony Brook University Hospital) - Desmoplastic small round cell tumor  
New York (Buffalo General Hospital) - Desmoplastic small round cell tumor  
Pennsylvania (Conemaugh Memorial Medical Center) - Desmoplastic small round cell tumor  
Pennsylvania (Lehigh Valley Hospital) - Rhabdoid tumor  
Pennsylvania (Drexel University College of Medicine) - Desmoplastic small round cell tumor  
Pennsylvania (Magee Women's Hospital) - Desmoplastic small round cell tumor  
Puerto Rico, San Juan (University of Puerto Rico) - Desmoplastic small round cell tumor  
South Carolina (Medical University of South Carolina) - Desmoplastic round cell  
Tennessee, Maryville - Desmoplastic small round cell tumor  
Texas, Crystal Beach - Neuroendocrine tumor ovarian origin  
Texas, Lubbock - Desmoplastic small round cell tumor  
Washington (Seattle VAMC) - Neoplasm;Malignant;High grade (Small round blue cell)  
West Virginia (Greenbrier Valley Medical Center) - Desmoplastic small round cell tumor  
Wisconsin, Madison - Desmoplastic small round cell tumor  
Wisconsin, Cross Plains (Medical Assessment and Consultations) - PNET/Extraosseous Ewing sarcoma  
Wisconsin, Milwaukee (Medical College of Wisconsin) - Desmoplastic small round cell tumor  
Australia (Royal Hobart Hospital) - Desmoplastic small round cell tumor  
Australia (Royal Prince Alfred Hospital) - Desmoplastic small round cell tumor  
Australia (St. Vincent's Hospital) - DSRCT  
Australia (Sullivan Nicolaides Path Registrars) - Desmoplastic small round cell tumor  
Brazil (Rua Vicente Beghilli) - Desmoplastic small round cell tumor  
Canada (Universite de Sherbrook) - Desmoplastic small round cell tumor

Canada (Pasqua Hospital) – Desmoplastic small round cell tumor  
Ireland (Bon Secours Tralee) - Desmoplastic small round cell tumor  
Ireland (Kerry General Hospital) - Desmoplastic small round cell tumor  
Ireland (University College Hospital) - Desmoplastic small round cell tumor  
Japan (Asashi General Hospital) - Desmoplastic small round cell tumor  
Japan (Setagaya-Ku) - Desmoplastic small round cell tumor  
Japan (Wakayama Medical University) - Desmoplastic small round cell tumor  
Oman (Sultanate of Azaiba) - Desmoplastic small round cell tumor  
Saudi Arabia (King Fahad Hospital Hofuf) - 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  
United Kingdom (John Radcliffe Hospital) - Desmoplastic small round cell tumor

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

Desmoplastic small round cell tumor, omentum and multiple serosal sites

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

Desmoplastic small round cell tumor: diagnosis by fine-needle aspiration cytology.  
 Acta Cytol 2012;56(5): p576-80  
 Leca LB; Vieira J, et al.

A new molecular variant of desmoplastic small round cell tumor: significance of WT1 immunostaining in this entity.  
 Hum Pathol 2008 Dec;39(12): p1763-70  
 Murphy AJ; Bishop K, et al.

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

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

Desmoplastic small round cell tumor of the abdomen. Report of two cases.  
 Pathologica 2007 Apr;99(2): p54-6  
 Mekni A; Maamouri N, et al.

Pathologic quiz case: a 13-year-old boy with multiple abdominal masses. Desmoplastic small round cell tumor.  
 Arch Pathol Lab Med 2003 Aug;127(8): pe347-8  
 Omeroglu A; Omeroglu G

#### **Case No. 6, Accession No. 31498**

**April 2013**

Fontana (Kaiser Foundation Hospital) - GIST  
Lakewood - Malignant gastrointestinal stromal tumor  
Long Beach (Long Beach VA) - Malignant gastrointestinal stromal tumor  
Oakland (Alameda County Medical Center) - GIST  
Orange (UCI Medical Center) - GIST  
Oxnard (St. John's Regional Medical Center) - GIST, malignant  
Santa Barbara (Miramonte Lab) - GIST  
San Diego (Naval Medical Center) - GIST  
Woodland Hills (Kaiser Permanente) - GIST  
Arkansas (Associated Pathologists Laboratory) - Gastrointestinal stromal tumor; probably benign  
Colorado, Fort Collins - Gastrointestinal stromal tumor  
Delaware (Armed Forces Medical Examiner System) - Gastrointestinal stromal tumor

Florida (GastroEnterology Associates of Ocala) – Epithelioid GIST  
Georgia, Atlanta - Gastrointestinal stromal tumor  
Illinois (Heartland Regional Medical Center) - GIST  
Illinois, Oakbrook – GIST Malignant  
Massachusetts, Worcester (University of Massachusetts) – Gastrointestinal stromal tumor  
Mississippi, Jackson (University of Mississippi Medical Center) – Gastrointestinal stromal tumor  
Missouri, S. Keston (Missouri Delta Medical Center) - GIST  
New York (Erie County Medical Center) - GIST  
New York (SUNY Stony Brook University Hospital) - Gastrointestinal stromal tumor, overtly metastatic  
New York (Buffalo General Hospital) - Desmoplastic small round cell tumor  
Pennsylvania (Conemaugh Memorial Medical Center) - Malignant GIST  
Pennsylvania (Lehigh Valley Hospital) - GIST  
Pennsylvania (Drexel University College of Medicine) - GIST  
Pennsylvania (Magee Women's Hospital) - GIST  
Puerto Rico, San Juan (University of Puerto Rico) – Gastrointestinal stromal tumor  
South Carolina (Medical University of South Carolina) - GIST  
Tennessee, Maryville – Malignant epithelioid GIST  
Texas, Crystal Beach - Gastrointestinal stromal tumor  
Texas, Lubbock – Malignant GIST  
Washington (Seattle VAMC) - Neoplasm; aggressive growth; GIST  
West Virginia (Greenbrier Valley Medical Center) - Gastro-Intestinal stromal tumor  
Wisconsin, Madison - Gastrointestinal stromal tumor  
Wisconsin, Cross Plains (Medical Assessment and Consultations) - High risk gastrointestinal stromal tumor (GIST)  
Wisconsin, Milwaukee (Medical College of Wisconsin) - Gastrointestinal stromal tumor  
Australia (Royal Hobart Hospital) - GIST (malignant)  
Australia (Royal Prince Alfred Hospital) – Malignant GIST  
Australia (St. Vincent's Hospital) – High grade GIST  
Australia (Sullivan Nicolaides Path Registrars) – Gastrointestinal stromal tumor  
Brazil (Rua Vicente Beghilli) - High grade GIST (IIIA)  
Canada (Universite de Sherbrook) – GIST, high risk of malignancy  
Canada (Pasqua Hospital) – GIST  
Ireland (Bon Secours Tralee) - Malignant GIST  
Ireland (Kerry General Hospital) - Gastrointestinal stromal tumor  
Ireland (University College Hospital) - GIST  
Japan (Asahi General Hospital) - Gastrointestinal stromal tumor  
Japan (Setagaya-Ku) - Gastrointestinal stromal tumor  
Japan (Wakayama Medical University) - Gastrointestinal stromal tumor  
Oman (Sultanate of Azaiba) - Malignant gastrointestinal stromal tumor  
Saudi Arabia (King Fahad Hospital Hofuf) - Gastro-Intestinal stromal tumor; high risk of progressive disease  
Saudi Arabia (King Khalid University Hospital) - Gastrointestinal stromal tumor (malignant)  
Singapore (Freelance/Locum Practice) - Gastrointestinal stromal tumor, malignant  
United Kingdom (John Radcliffe Hospital) - GIST

#### **Case 6 - Diagnosis:**

Gastrointestinal stromal tumor (GIST), likely malignant, stomach, peritoneum and other sites

#### **Case 6 - References:**

Gastrointestinal stromal tumors: usefulness of immunohistochemistry, flow cytometry and fluorescence in situ hybridization.

J Gastroenterol Hepatol 2007 Nov;22(11): p1754-9

Fontana MG; Rossi E, et al.

Tumor size is a major determinant of recurrence in patients with resectable gastrointestinal stromal tumor.

Am J Surg 2007 Aug;194(2): p148-52

Hsu KH; Yang TM, et al.

Surgical outcomes and immunohistochemical features for gastrointestinal stromal tumors (GISTS) of the stomach: with special reference to prognostic factors.

Hepatogastroenterology 2007 Jul-Aug;54(77): p1454-7

Park SS; Ryu JS, et al.

Gastrointestinal stromal tumors: diagnostic challenges and practical approach to differential diagnosis.

Adv Anat Pathol 2007 Jul;14(4): p261-85

Kirsch R; Gao ZH, et al.

Distinguishing gastrointestinal stromal tumors from their mimics: an update.

Adv Anat Pathol 2007 May;14(3): p178-88

Abraham SC

## Case No. 7, Accession No. 31459

April 2013

Fontana (Kaiser Foundation Hospital) - Angiosarcoma

Lakewood - Poorly differentiated Angiosarcoma

Long Beach (Long Beach VA) - Angiosarcoma, poorly differentiated

Oakland (Alameda County Medical Center) - Angiosarcoma

Orange (UCI Medical Center) - Angiosarcoma

Oxnard (St. John's Regional Medical Center) - Angiosarcoma

Santa Barbara (Miramonte Lab) - Angiosarcoma

San Diego (Naval Medical Center) - Angiosarcoma

Woodland Hills (Kaiser Permanente) - Angiosarcoma

Arkansas (Associated Pathologists Laboratory) - Angiosarcoma

Colorado, Fort Collins - Hemangioendothelioma

Delaware (Armed Forces Medical Examiner System) - Well differentiated angiosarcoma

Florida (GastroEnterology Associates of Ocala) - Epithelioid angiosarcoma

Georgia, Atlanta - Epithelioid angiosarcoma

Illinois (Heartland Regional Medical Center) - Angiosarcoma

Illinois, Oakbrook - Angiosarcoma

Massachusetts, Worcester (University of Massachusetts) - Angiosarcoma

Mississippi, Jackson (University of Mississippi Medical Center) - Angiosarcoma

Missouri, S. Keston (Missouri Delta Medical Center) - Angiosarcoma

New York (Erie County Medical Center) - Angiosarcoma

New York (SUNY Stony Brook University Hospital) - Hemangioendothelioma

New York (Buffalo General Hospital) - Angiosarcoma

Pennsylvania (Conemaugh Memorial Medical Center) - Epithelioid angiosarcoma

Pennsylvania (Lehigh Valley Hospital) - Angiosarcoma

Pennsylvania (Drexel University College of Medicine) - Angiosarcoma

Pennsylvania (Magee Women's Hospital) - Angiosarcoma

Puerto Rico, San Juan (University of Puerto Rico) - Epithelioid angiosarcoma

South Carolina (Medical University of South Carolina) - Angiosarcoma

Tennessee, Maryville - Epithelioid angiosarcoma

Texas, Crystal Beach - Angiosarcoma

Texas, Lubbock - Angiosarcoma

Washington (Seattle VAMC) - Neoplasm; moderately aggressive; endothelioma

West Virginia (Greenbrier Valley Medical Center) - Angiosarcoma

Wisconsin, Madison - Angiosarcoma

Wisconsin, Cross Plains (Medical Assessment and Consultations) - Angiosarcoma

Wisconsin, Milwaukee (Medical College of Wisconsin) - Angiosarcoma

Australia (Royal Hobart Hospital) - Angiosarcoma

Australia (Royal Prince Alfred Hospital) - Angiosarcoma (? radiation-induced)

Australia (St. Vincent's Hospital) - Angiosarcoma

Australia (Sullivan Nicolaides Path Registrars) - Angiosarcoma

Brazil (Rua Vicente Beghilli) - Angiosarcoma  
Canada (Universite de Sherbrook) – Angiosarcoma  
Canada (Pasqua Hospital) – Angiosarcoma  
Ireland (Bon Secours Tralee) - Dendritic follicular cell tumor  
Ireland (Kerry General Hospital) - Angiosarcoma  
Ireland (University College Hospital) - Angiosarcoma  
Japan (Asashi General Hospital) - Angiosarcoma  
Japan (Setagaya-Ku) - Gastrointestinal stromal tumor  
Japan (Wakayama Medical University) - Angiosarcoma  
Oman (Sultanate of Azaiba) - Angiosarcoma  
Saudi Arabia (King Fahad Hospital Hofuf) - Epithelioid angiosarcoma  
Saudi Arabia (King Khalid University Hospital) - Angiosarcoma  
Singapore (Freelance/Locum Practice) - Angiosarcoma  
United Kingdom (John Radcliffe Hospital) - Angiosarcoma

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

Angiosarcoma, ileum

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

Epithelioid angiosarcoma of the small bowel.  
 Gastrointest Endosc 2006 Dec;64(6): p1018-21  
 Al Ali J; Ko HH, et al.

Human herpesvirus 8 and angiosarcoma: analysis of 40 cases and review of the literature.  
 Pathology 2005 Aug;37(4): p284-7  
 Schmid H; Zietz C

Cytohistologic correlations in angiosarcoma including classic and epithelioid variants: Institut Curie's experience.  
 Diagn Cytopathol 2003 Sep;29(3): p140-5  
 Klijanienko J; Caillaud JM, et al.

Angiosarcoma involving the gastrointestinal tract: a series of primary and metastatic cases.  
 Am J Surg Pathol 2004 Mar;28(3): p298-307  
 Allison KH; Yoder BJ, et al.

[High-grade small bowel angiosarcoma associated with angiosarcomatosis: a case report]  
 Ann Pathol 2011 Aug;31(4): p303-6  
 Chahbouni S; Barnoud R, et al.

Primary colonic angiosarcoma as a cause of massive lower gastrointestinal bleeding.  
 Rev Esp Enferm Dig 2010 Apr;102(4): p288-9  
 Pascual M; Juanpere N, et al.

#### **Case No. 8, Accession No. 31414**

**April 2013**

Fontana (Kaiser Foundation Hospital) - Rhabdomyosarcoma  
Lakewood - Poorly differentiated neuroblastoma  
Long Beach (Long Beach VA) - Neuroblastoma  
Oakland (Alameda County Medical Center) – Small round cell tumor, favor rhabdomyosarcoma  
Orange (UCI Medical Center) – Biphasic synovial sarcoma  
Oxnard (St. John's Regional Medical Center) - Germ cell tumor/ Alveolar rhabdomyosarcoma/ Germ cell tumor vs PNET vs Wilm's  
Santa Barbara (Miramonte Lab) - Rhabdomyosarcoma  
San Diego (Naval Medical Center) - Alveolar rhabdomyosarcoma  
Woodland Hills (Kaiser Permanente) – Ewing's sarcoma/PNET

Arkansas (Associated Pathologists Laboratory) - Embryonal rhabdomyosarcoma/ Malignant small blue cell neoplasm  
Colorado, Fort Collins - Rhabdomyosarcoma  
Delaware (Armed Forces Medical Examiner System) - Alveolar rhabdomyosarcoma  
Florida (GastroEnterology Associates of Ocala) - PNET  
Georgia, Atlanta - Alveolar rhabdomyosarcoma  
Illinois (Heartland Regional Medical Center) - Rhabdomyosarcoma  
Illinois, Oakbrook – Embryonal rhabdomyosarcoma  
Massachusetts, Worcester (University of Massachusetts) – Primitive neuroectodermal tumor  
Mississippi, Jackson (University of Mississippi Medical Center) – Alveolar rhabdomyosarcoma  
Missouri, S. Keston (Missouri Delta Medical Center) – Sarcoma high grade (Synovial sarcoma)  
New York (Erie County Medical Center) - Small blue cell tumor (rhabdomyosarcoma vs synovial sarcoma small cell of ovary)  
New York (SUNY Stony Brook University Hospital) - Small round blue cell tumor, need ancillary studies  
New York (Buffalo General Hospital) - Rhabdomyosarcoma with anaplastic changes  
Pennsylvania (Conemaugh Memorial Medical Center) - Alveolar rhabdomyosarcoma  
Pennsylvania (Lehigh Valley Hospital) - Alveolar rhabdomyosarcoma  
Pennsylvania (Drexel University College of Medicine) – Embryonal rhabdomyosarcoma  
Pennsylvania (Magee Women’s Hospital) - Ewing’s sarcoma  
Puerto Rico, San Juan (University of Puerto Rico) – Alveolar rhabdomyosarcoma  
South Carolina (Medical University of South Carolina) - Alveolar rhabdomyosarcoma  
Tennessee, Maryville – Ewing/PNET  
Texas, Crystal Beach - Anaplastic lymphoma possible  
Texas, Lubbock - Lymphoma  
Washington (Seattle VAMC) - Neoplasm; High grade; endothelial/angio  
West Virginia (Greenbrier Valley Medical Center) - Embryonal rhabdomyosarcoma  
Wisconsin, Madison - Small round blue cell tumor ?alveolar rhabdomyosarcoma  
Wisconsin, Cross Plains (Medical Assessment and Consultations) - Embryonal rhabdomyosarcoma  
Wisconsin, Milwaukee (Medical College of Wisconsin) - High grade poorly differentiated sarcoma  
Australia (Royal Hobart Hospital) - Embryonal rhabdomyosarcoma  
Australia (Royal Prince Alfred Hospital) – Small round blue cell tumor (favor alveolar rhabdomyosarcoma-would do immunohistochemistry and FISH)  
Australia (St. Vincent’s Hospital) – PNET/Ewing’s sarcoma  
Australia (Sullivan Nicolaides Path Registrars) – Alveolar rhabdomyosarcoma  
Brazil (Rua Vicente Beghilli) - High grade sarcoma  
Canada (Universite de Sherbrook) – Rhabdomyosarcoma  
Canada (Pasqua Hospital) – Rhabdomyosarcoma  
Ireland (Bon Secours Tralee) - Synovial sarcoma  
Ireland (Kerry General Hospital) - Poorly differentiated tumor ?PNET, ?other  
Ireland (University College Hospital) - Alveolar rhabdomyosarcoma  
Japan (Asashi General Hospital) - Alveolar rhabdomyosarcoma/Desmoplastic small round blue cell tumor  
Japan (Setagaya-Ku) - Rhabdomyosarcoma  
Japan (Wakayama Medical University) - Undifferentiated high grade pleomorphic sarcoma  
Oman (Sultanate of Azaiba) - Liposarcoma  
Saudi Arabia (King Fahad Hospital Hofuf) - Favor embryonal rhabdomyosarcoma with anaplasia; differential is primitive neuroectodermal tumor  
Saudi Arabia (King Khalid University Hospital) - Malignant round blue cell tumor probably non-Hodgkin’s lymphoma  
Singapore (Freelance/Locum Practice) - Alveolar rhabdomyosarcoma  
United Kingdom (John Radcliffe Hospital) - Embryonal rhabdomyosarcoma

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

Rhabdomyosarcoma with alveolar features (Alveolar rhabdomyosarcoma), retroperitoneum

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

PAX immunoreactivity identifies alveolar rhabdomyosarcoma.  
 Am J Surg Pathol 2009 May;33(5): p775-80  
 Sullivan LM; Atkins KA, et al.

Trends in childhood rhabdomyosarcoma incidence and survival in the United States, 1975-2005.  
Cancer 2009 Sep 15;115(18): p4218-26  
Ognjanovic S; Linabery AM, et al.

Advances in pediatric rhabdomyosarcoma characterization and disease model development.  
Histol Histopathol 2012 Jan;27(1): p13-22  
O'Brien D; Jacob AG, et al.

Epithelioid rhabdomyosarcoma: clinicopathologic analysis of 16 cases of a morphologically distinct variant of rhabdomyosarcoma.  
Am J Surg Pathol 2011 Oct;35(10): p1523-30  
Jo VY; Marino-Enriquez A; Fletcher CD

Childhood rhabdomyosarcoma: new insight on biology and treatment.  
Curr Oncol Rep 2010 Nov;12(6): p402-10  
Huh WW; Skapek SX

### **Case No. 9, Accession No. 17869**

**April 2013**

Fontana (Kaiser Foundation Hospital) - Pleomorphic sarcoma  
Lakewood - Giant cell malignant fibrous histiocytoma  
Long Beach (Long Beach VA) - Pleomorphic undifferentiated sarcoma  
Oakland (Alameda County Medical Center) – Undifferentiated high grade pleomorphic sarcoma (MFH)  
Orange (UCI Medical Center) – Pleomorphic sarcoma  
Oxnard (St. John's Regional Medical Center) - Malignant fibrous histiocytoma  
Santa Barbara (Miramonte Lab) - Leiomyosarcoma  
San Diego (Naval Medical Center) - High grade sarcoma  
Woodland Hills (Kaiser Permanente) – Leiomyosarcoma  
Arkansas (Associated Pathologists Laboratory) - Pleomorphic rhabdomyosarcoma  
Colorado, Fort Collins - Malignant fibrous histiocytoma  
Delaware (Armed Forces Medical Examiner System) - Pleomorphic sarcoma, favor poorly differentiated leiomyosarcoma  
Florida (GastroEnterology Associates of Ocala) – Inflammatory MFH  
Georgia, Atlanta - Pleomorphic sarcoma, rule out leiomyosarcoma  
Illinois (Heartland Regional Medical Center) - Pleomorphic stroma sarcoma (MFH)  
Illinois, Oakbrook – Pleomorphic malignant F.H  
Massachusetts, Worcester (University of Massachusetts) – Rhabdomyosarcoma  
Mississippi, Jackson (University of Mississippi Medical Center) – Pleomorphic undifferentiated sarcoma versus pleomorphic rhabdomyosarcoma  
Missouri, S. Keston (Missouri Delta Medical Center) – Malignant fibrous histiocytoma  
New York (Erie County Medical Center) - Pleomorphic sarcoma  
New York (SUNY Stony Brook University Hospital) - Pleomorphic Sarcoma (MFH)  
New York (Buffalo General Hospital) - Malignant fibrous histiocytoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Pleomorphic sarcoma  
Pennsylvania (Lehigh Valley Hospital) - Pleomorphic liposarcoma  
Pennsylvania (Drexel University College of Medicine) - Leiomyosarcoma  
Pennsylvania (Magee Women's Hospital) - Pleomorphic sarcoma  
Puerto Rico, San Juan (University of Puerto Rico) – Undifferentiated high grade sarcoma (MFH)  
South Carolina (Medical University of South Carolina) - Pleomorphic undifferentiated sarcoma  
Tennessee, Maryville – Pleomorphic MFH  
Texas, Crystal Beach - Pleomorphic cell carcinoma  
Texas, Lubbock - Leiomyosarcoma  
Washington (Seattle VAMC) - Neoplasm; Pleomorphic/high grade rhabdomyosarcoma  
West Virginia (Greenbrier Valley Medical Center) - Malignant fibrous histiocytoma  
Wisconsin, Madison - High grade sarcoma (malignant fibrous histiocytoma)

Wisconsin, Cross Plains (Medical Assessment and Consultations) - High grade leiomyosarcoma  
Wisconsin, Milwaukee (Medical College of Wisconsin) - Leiomyosarcoma  
Australia (Royal Hobart Hospital) - High grade pleomorphic sarcoma (MFH Type)  
Australia (Royal Prince Alfred Hospital) – Pleomorphic sarcoma  
Australia (St. Vincent's Hospital) – Undifferentiated pleomorphic sarcoma  
Australia (Sullivan Nicolaides Path Registrars) – Pleomorphic sarcoma  
Brazil (Rua Vicente Beghilli) - Leiomyosarcoma (high grade)  
Canada (Universite de Sherbrook) – Undifferentiated/pleomorphic sarcoma  
Canada (Pasqua Hospital) – Leiomyosarcoma  
Ireland (Bon Secours Tralee) - Pleomorphic MFH  
Ireland (Kerry General Hospital) - Myxofibrosarcoma  
Ireland (University College Hospital) - Leiomyosarcoma, pleomorphic  
Japan (Asahi General Hospital) - Undifferentiated high-grade pleomorphic sarcoma/Leiomyosarcoma  
Japan (Setagaya-Ku) - Rhabdomyosarcoma  
Japan (Wakayama Medical University) - Undifferentiated high grade pleomorphic sarcoma  
Oman (Sultanate of Azaiba) - Pleomorphic sarcoma  
Saudi Arabia (King Fahad Hospital Hofuf) - Pleomorphic undifferentiated sarcoma (MFH)  
Saudi Arabia (King Khalid University Hospital) - Pleomorphic malignant fibrous histiocytoma  
Singapore (Freelance/Locum Practice) - Pleomorphic sarcoma ?leiomyosarcoma  
United Kingdom (John Radcliffe Hospital) - High grade pleomorphic sarcoma/Malignant fibrous histiocytoma

#### **Case 9 - Diagnosis:**

Pleomorphic sarcoma with myogenous features, thigh

#### **Case 9 - References:**

Pleomorphic and dedifferentiated leiomyosarcoma: clinicopathologic and immunohistochemical study of 41 cases.  
 Hum Pathol 2010 May;41(5): p663-71  
 Nicolas MM; Tamboli P, et al.

Pleomorphic rhabdomyosarcoma showing smooth-muscle and fibrohistiocytic differentiation: a single case report.  
 Ultrastruct Pathol 2010 Feb;34(1): p42-7  
 Eyden B

Comparing adult and pediatric rhabdomyosarcoma in the surveillance, epidemiology and end results program, 1973 to 2005: an analysis of 2,600 patients.  
 J Clin Oncol 2009 Jul 10;27(20): p3391-7  
 Sultan I; Qaddoumi I, et al.

Diagnosis and management of pleomorphic sarcomas (so-called "MFH") in adults.  
 J Surg Oncol 2008 Mar 15;97(4): p330-9  
 Nascimento AF; Raut CP

Adult-type rhabdomyosarcoma: analysis of 57 cases with clinicopathologic description, identification of 3 morphologic patterns and prognosis.  
 Am J Surg Pathol 2009 Dec;33(12): p1850-9  
 Stock N; Chibon F, et al.

#### **Case No. 10, Accession No. 31478**

**April 2013**

Fontana (Kaiser Foundation Hospital) - MPNST  
Lakewood - Malignant peripheral nerve sheath tumor  
Long Beach (Long Beach VA) - malignant peripheral nerve sheath tumor  
Oakland (Alameda County Medical Center) - MPNST  
Orange (UCI Medical Center) – Malignant peripheral nerve sheath tumor



Oxnard (St. John's Regional Medical Center) - Malignant peripheral nerve sheath tumor  
Santa Barbara (Miramonte Lab) - Malignant peripheral nerve sheath tumor  
San Diego (Naval Medical Center) - Malignant peripheral nerve sheath tumor  
Woodland Hills (Kaiser Permanente) – Malignant peripheral nerve sheath tumor  
Arkansas (Associated Pathologists Laboratory) - Malignant peripheral nerve sheath tumor  
Colorado, Fort Collins - Malignant peripheral nerve sheath tumor  
Delaware (Armed Forces Medical Examiner System) - Malignant peripheral nerve sheath tumor  
Florida (GastroEnterology Associates of Ocala) - MPNST  
Georgia, Atlanta - MPNST  
Illinois (Heartland Regional Medical Center) - Malignant peripheral nerve sheath tumor  
Illinois, Oakbrook – MPNST  
Massachusetts, Worcester (University of Massachusetts) – Malignant peripheral nerve sheath tumor  
Mississippi, Jackson (University of Mississippi Medical Center) - Malignant peripheral nerve sheath tumor  
Missouri, S. Keston (Missouri Delta Medical Center) – Neurofibrosarcoma (vs. MFIT)  
New York (Erie County Medical Center) - MPNST  
New York (SUNY Stony Brook University Hospital) - Malignant peripheral nerve sheath tumor  
New York (Buffalo General Hospital) - Malignant peripheral nerve sheath tumor  
Pennsylvania (Conemaugh Memorial Medical Center) - Malignant peripheral nerve sheath tumor  
Pennsylvania (Lehigh Valley Hospital) - Melanoma  
Pennsylvania (Drexel University College of Medicine) - Malignant peripheral nerve sheath tumor  
Pennsylvania (Magee Women's Hospital) - MPNST  
Puerto Rico, San Juan (University of Puerto Rico) – Melanotic malignant peripheral nerve sheath tumor  
South Carolina (Medical University of South Carolina) - MPNST with heterologous elements  
Tennessee, Maryville – Epithelioid MPNST  
Texas, Crystal Beach - Possible melanoma  
Texas, Lubbock - Neurosarcoma  
Washington (Seattle VAMC) - Neoplasm; Pleomorphic/high grade; nerve sheath sarcoma  
West Virginia (Greenbrier Valley Medical Center) - Malignant schwannoma  
Wisconsin, Madison - Malignant peripheral nerve sheath tumor  
Wisconsin, Cross Plains (Medical Assessment and Consultations) - High grade neurofibrosarcoma  
Wisconsin, Milwaukee (Medical College of Wisconsin) - Malignant peripheral nerve sheath tumor  
Australia (Royal Hobart Hospital) - Malignant peripheral nerve sheath tumor  
Australia (Royal Prince Alfred Hospital) – Malignant peripheral nerve sheath tumor  
Australia (St. Vincent's Hospital) – MPNST  
Australia (Sullivan Nicolaides Path Registrars) - Malignant peripheral nerve sheath tumor  
Brazil (Rua Vicente Beghilli) - Triton tumor  
Canada (Universite de Sherbrook) – Malignant peripheral nerve sheath tumor  
Canada (Pasqua Hospital) – MPNST  
Ireland (Bon Secours Tralee) - MPNST  
Ireland (Kerry General Hospital) - Malignant peripheral nerve sheath tumor  
Ireland (University College Hospital) - Malignant peripheral nerve sheath tumor  
Japan (Asashi General Hospital) - Malignant peripheral nerve sheath tumor  
Japan (Setagaya-Ku) - Malignant peripheral nerve sheath tumor  
Japan (Wakayama Medical University) - Malignant peripheral nerve sheath tumor  
Oman (Sultanate of Azaiba) - Malignant peripheral nerve sheath tumor  
Saudi Arabia (King Fahad Hospital Hofuf) - Malignant peripheral nerve sheath tumor  
Saudi Arabia (King Khalid University Hospital) - Malignant peripheral nerve sheath tumor  
Singapore (Freelance/Locum Practice) - Sarcoma, consistent with malignant peripheral nerve sheath tumor  
United Kingdom (John Radcliffe Hospital) - Malignant peripheral nerve sheath tumor

#### **Case 10 - Diagnosis:**

Malignant peripheral nerve sheath tumor (MPNST) in setting of neurofibromatosis, posterior mediastinum

#### **Case 10 - References:**

Malignant peripheral nerve sheath tumors (MPNST): the Mayo Clinic experience.  
 Ann Surg Oncol 2012 Mar;19(3): p878-85  
 Stucky CC; Johnson KN, et al.

Malignant peripheral nerve sheath tumor with primitive neuroepithelial differentiation in an adult: a case report.  
Int J Surg Pathol 2012 Oct;20(5): p511-4  
Anvikar AR; Kulkarni MP, et al.

Longitudinal study of neurofibromatosis 1 associated plexiform neurofibromas.  
J Med Genet 2009 Feb;46(2): p81-5  
Tucker T; Friedman JM, et al.

Atypical neurofibroma of the skin and subcutaneous tissue: clinicopathologic analysis of 11 cases.  
J Cutan Pathol 2010 Jan;37(1): p35-42  
Jokinen CH; Argenyi ZB

Histopathologically dysplastic neurofibromas in neurofibromatosis 1: diagnostic criteria, prevalence and clinical significance.  
Br J Dermatol 2008 May;158(5): p1008-12  
Valeyrie-Allanore L; Ortonne N, et al.