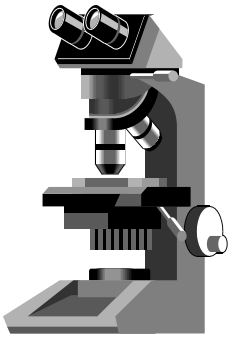
CALIFORNIA
TUMOR TISSUE REGISTRY

"PEDIATRIC PATHOLOGY"

Minutes – Subscription A

May, 2006



SUGGESTED READING (General Topics from Recent Literature):

Rodgers, Bradley M. We've Come a Long Way. It's Finally Time to Get Started! *J of Pediatric Surg* 2005; 40:1-9.

Chiesa-Vottero A, Dvoretsky PM, et al. Histopathology Study of Thin Vulvar Squamous Cell Carcinomas and Associated Cutaneous Lesions. A Correlative Study of 48 Tumors in 44 Patients with Analysis of Adjacent Vulvar Intraepithelial Neoplasia Types and Lichen Sclerosis. *Am J Surg Pathol* 2006; 30:310-318.

Qureshi HS, Linden MD, et al. E-Cadherin Status in Breast Carcinoma Correlates with Histologic Type But Does Not Correlate with Established Prognostic Parameters. *Am J Clin Pathol* 2006; 125:377-385.

Ng W-F to KF, et al. The Comparative of Severe Acute Respiratory Syndrome and Avian Influenza A Subtype H5N1—A Review. *Hum Pathol* 2006; 37:381-390.

Carter MR, Hornick JL, et al. Spindle Cell (Sarcomatoid) Carcinoma of the Breast. A Clinicopathologic and Immunohistochemical Analysis of 29 Cases. *Am J Surg Pathol* 2006; 30:300-309.

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Web site & Case of the Month: www.cttr.org

FILE DIAGNOSES

(Preferably submitted on website at www.cttr.org. Click "subscriptions", then submit answers".)

CTTR Subscription A May, 2006

Case 1:
Fibrous dysplasia, humerus
T-11410, M-74910

Case 2:
Nodular fasciitis, resolution stage, arm
T-Y8000, M-76130

Case 3:
Inflammatory myofibroblastic tumor, omentum
T-71000, M-73050

Case 4:
Fibromatosis, buttock
T-14450, M-76100

Case 5:
Congenital/infantile fibrosarcoma, coccygeal mass
T-Y1420, M-88143

Case 6:
Dysgerminoma, ovary
T-87000, M-90603

Case 7:
Immature teratoma, ovary
T-87000, M-90801

Case 8:
Yolk sac tumor (endodermal sinus tumor), testis
T-78000, M-90713

Case 9:
Neuroblastoma with differentiation into ganglioneuroblastoma
T-Y4100, M-95003

Case 10:
Primitive high grade neoplasm, likely variant of PNET, anal verge
T-Y1701, M-93630

Case No. 1, Accession No. 30197 **May 2006**

Alameda (Alameda County Medical Center) - Fibrous dysplasia
Baldwin Park (Kaiser Permanente) - Fibrous dysplasia (3)
Fontana (Kaiser Permanente) - Fibrous dysplasia
Glendale - Fibrous dysplasia
Irvine (University of California Irvine) - Fibrous dysplasia
Long Beach (Lakewood Regional Medical Center) - Fibrous dysplasia (9)
Monterey (Community Hospital of the Monterey Peninsula) - Metastatic carcinoma
Monterey Park (Garfield Medical Center) - Fibrous dysplasia of bone
Mountain View (El Camino Pathology) - Fibrous dysplasia
Oakland - Fibrous dysplasia
Orange (Orange County Medical Group) - Fibrous dysplasia
Oxnard (St. John's Regional Medical Center) - Fibrous dysplasia (4)
Sacramento (UC Davis) - Fibrous dysplasia
San Diego (Naval Medical Center) - Fibrous osseous dysplasia
San Francisco (San Francisco General Hospital) - Fibrous dysplasia
San Francisco (UCSF School of Medicine) - Fibrous dysplasia
Santa Rosa (Santa Rosa Memorial Hospital) - Fibrous dysplasia (3)
Woodland Hills (Kaiser Permanente Medical Center) - Fibrous dysplasia
Woodland Hills (Suba's Soldiers) - Fibrous dysplasia
Arizona, Oro Valley - Fibrous dysplasia
Arkansas (UAMS) - Fibrous dysplasia, humerus
Colorado, Denver - Fibrous dysplasia
Colorado, Evergreen - Fibrous dysplasia
Florida (Jackson Memorial Hospital) - Fibrous dysplasia
Florida (Munroe Regional Medical Center) - Fibrous dysplasia
Florida (Tallahassee Pathology Association) - Fibrous dysplasia
Florida (Winter Haven Hospital) - Fibrous dysplasia (2)
Illinois, Burr Ridge - Adamantinoma of long bones (1); Adamantinoma, osteofibrous dysplasia-like (1)
Illinois (Loyola University Medical Center) - Adamantinoma
Indiana (Ball Memorial Hospital) - Fibrous dysplasia
Indiana (Kokamo Pathologist Health Systems) - Fibrous dysplasia
Kentucky (University of Louisville) - Fibrous dysplasia
Maryland (Northwest Hospital Center) - Fibrous dysplasia
Maryland (University of Maryland) - Fibrodysplasia
Massachusetts (Tufts-New England Medical Center) - Osteofibrous lesion consistent with fibrous dysplasia
Michigan (Oakwood Hospital) - Fibrous dysplasia
New York (Nassau County Medical Center) - Fibrous dysplasia
New York (Stony Brook University Hospital Residents) - Fibrous dysplasia
New York (SUNY Downstate Residents) - Fibrous dysplasia
New York (Westchester Medical Center) - Fibrous dysplasia
North Carolina (Mountain Area Pathology) - Fibrous dysplasia
Oklahoma (Heartland Pathology Consultants) - Fibrous dysplasia
Pennsylvania (Conemaugh Memorial Medical Center) - Fibrous dysplasia
Pennsylvania (Drexel University College of Medicine) - Fibrous dysplasia
Pennsylvania (Lehigh Valley Hospital) - Fibrous dysplasia
Pennsylvania (Mt. Nittany Medical Center) - Fibrous dysplasia
Pennsylvania (Pennsylvania Hospital) - Osteoblastoma
Texas (Baylor University Medical Center) - Juvenile polyp with dysplasia
Texas (Lackland AFB) - Fibrous dysplasia
Texas, Lubbock - Fibrous dysplasia
Texas (ProPath Associates) - Fibrous dysplasia

Texas (Scott & White Memorial Hospital) - Fibrous dysplasia
Texas, Victoria - Fibrous dysplasia
West Virginia (Greenbrier Valley Medical Center) - Fibrous dysplasia
West Virginia (Wetzel County Hospital) - Fibrous dysplasia
Wisconsin (Meriter Health Services) - Fibrous dysplasia
Australia (Royal Prince Alfred Hospital) - Fibrous dysplasia
Australia (Sullivan Nicolaides Pathology) - Fibrous dysplasia
Canada (Pasqua Hospital) - Fibrous dysplasia
Germany (UKE, Kerminstitut fur Pathologie) - Fibrous dysplasia
Ireland (Kerry General Hospital) - Fibrous dysplasia, ? contaminant on slide
Japan (Kyoto University Hospital) - Fibrous dysplasia
Netherlands, Amstelveen - Fibro-ossesous pseudotumor ?
Oman (Khoula Hospital) - Fibrous dysplasia
Qatar (Hamad Medical Corporation) - Fibrous dysplasia

Case 1 - Diagnosis:

Fibrous dysplasia, humerus
T-11410, M-74910

Case 1 – References:

Blackwell JB, McCarthy SW and Xipell JM, et al. Osteofibrous Dysplasia of the Tibia and Fibula. *Pathol* 1988; 20(3):227-233.

De Jesus H. Images in Clinical Medicine. A Quarter-Century of Fibrous Dysplasia. *N. Engl J Med* 2003; 349(2): pe2.

Di Caprio MR and Enneking WF. Fibrous Dysplasia. Pathophysiology, Evaluation and Treatment. *J Bone J Surg Am* 2005; 87(8):1848-1864.

West WM. Images and Diagnoses. Fibrous Dysplasia with Healed Oblique Pathological Fracture Through the Mid-Shaft of the Left Femur. *West Indian Med J* 2002; 51(1):45-52.

Case No. 2, Accession No. 30226 May 2006

Alameda (Alameda County Medical Center) - Myofibroma
Baldwin Park (Kaiser Permanente) - Nodular fasciitis (3)
Fontana (Kaiser Permanente) - Myofibroblastoma
Glendale - Low-grade spindle cell sarcoma
Irvine (University of California Irvine) - Nodular fasciitis
Long Beach (Lakewood Regional Medical Center) - Nodular fasciitis (9)
Monterey (Community Hospital of the Monterey Peninsula) - DFSP
Monterey Park (Garfield Medical Center) - Nodular fasciitis
Mountain View (El Camino Pathology) - Nodular fasciitis
Oakland - Nodular fasciitis
Orange (Orange County Medical Group) - Ischemic nodular fasciitis
Oxnard (St. John's Regional Medical Center) - Pseudo sarcoma (2); Organizing hematoma vs. pseudocarcinomatous fasciitis (1)
Sacramento (UC Davis) - Nodular fasciitis
San Diego (Naval Medical Center) - Nodular fasciitis
San Francisco (San Francisco General Hospital) - Fibrous histiocytoma, aneurysmal variant
San Francisco (UCSF School of Medicine) - Nodular fasciitis
Santa Rosa (Santa Rosa Memorial Hospital) - Nodular fasciitis (2); Ischemic fasciitis (1)
Woodland Hills (Kaiser Permanente Medical Center) - Nodular fasciitis
Woodland Hills (Suba's Soldiers) - Nodular fasciitis
Arizona, Oro Valley - ? nodular fasciitis, rule out sarcoma
Arkansas (UAMS) - Epithelioid sarcoma, arm
Colorado, Denver - Myofibroma
Colorado, Evergreen - Myofibroma
Florida (Jackson Memorial Hospital) - Nodular fasciitis
Florida (Munroe Regional Medical Center) - Nodular fasciitis
Florida (Tallahassee Pathology Association) - Nodular fasciitis
Florida (Winter Haven Hospital) - Infarcted leiomyoma (2)
Illinois, Burr Ridge - Nodular fasciitis (1); Nodular fasciitis vs. infection vs. lymphoma (1)

Illinois (Loyola University Medical Center) - Epithelioid sarcoma
Indiana (Ball Memorial Hospital) - Angiomatoid fibrous histiocytoma
Kentucky (University of Louisville) - Epithelioid sarcoma vs. epithelioid hemangioepithelioma
Maryland (Northwest Hospital Center) - Epithelioid sarcoma
Maryland (University of Maryland) - Nodular fasciitis
Massachusetts (Tufts-New England Medical Center) - Leiomyosarcoma
Michigan (Oakwood Hospital) - Nodular fasciitis
New York (Nassau County Medical Center) - Ischemic fasciitis
New York (Stony Brook University Hospital Residents) - Nodular fasciitis
New York (SUNY Downstate Residents) - Nodular fasciitis
New York (Westchester Medical Center) - Nodular fasciitis
North Carolina (Mountain Area Pathology) - Angiomatoid fibrous histiocytoma
Oklahoma (Heartland Pathology Consultants) - Nodular fasciitis
Pennsylvania (Conemaugh Memorial Medical Center) - Epithelioid sarcoma
Pennsylvania (Drexel University College of Medicine) - Reactive fibroblastic lesion
Pennsylvania (Lehigh Valley Hospital) - Nodular fasciitis
Pennsylvania (Mt. Nittany Medical Center) - Infantile myofibromatosis
Pennsylvania (Pennsylvania Hospital) - Angiomatoid fibrous histiocytoma
Texas (Baylor University Medical Center) - Benign phylloides tumor
Texas (Lackland AFB) - ?? nodular fasciitis
Texas, Lubbock - Organizing hematoma
Texas (ProPath Associates) - Nodular fasciitis
Texas (Scott & White Memorial Hospital) - Epithelioid sarcoma
Texas, Victoria - Nodular fasciitis
West Virginia (Greenbrier Valley Medical Center) - Epithelioid sarcoma
West Virginia (Wetzel County Hospital) - Fasciitis
Wisconsin (Meriter Health Services) - Nodular fasciitis
Australia (Royal Prince Alfred Hospital) - Myofibroma
Australia (Sullivan Nicolaides Pathology) - Nodular fasciitis
Canada (Pasqua Hospital) - Nodular fasciitis
Germany (UKE, Kerminstitut fur Pathologie) - Rheumatoid nodules
Ireland (Kerry General Hospital) - ? myofibroma
Japan (Kyoto University Hospital) - ? epithelioid sarcoma
Netherlands, Amstelveen - Soft tissue tumor ?
Qatar (Hamad Medical Corporation) - Nodular fasciitis

Case 2 - Diagnosis:

Nodular fasciitis, resolution stage, arm
T-Y8000, M-76130

Case 2 - References:

Oshiro Y, Fukuda T and Tsuneyoshi M. Fibrosarcoma vs. Fibromatoses and Cellular Nodular Fasciitis. A Comparative Study of Their Proliferative Activity Using Proliferating Cell Nuclear Antigen, DNA Flow Cytometry, and p53. *Am J Surg Pathol* 1994; 18(7):712-719.
el-Jabbour J, Wilson GD, Bennett MH, et al. Flow Cytometric Study of Nodular Fasciitis, Proliferative Fasciitis, and Proliferative Myositis. *Hum Pathol* 1991; 22(11):1146-1149.
Kern WH. Proliferative Myositis. Pseudosarcomatous Reaction to Injury. A Report of Seven Cases. *Arch Pathol* 1960; 69:209-215.
Shimizu S, Hashimoto H and Enjoji M. Nodular Fasciitis. An Analysis of 250 Patients. *Pathol* 1984; 16(2):161-166.
Montgomery EA and Meis JM. Nodular Fasciitis. Its Morphologic Spectrum and Immunohistochemical Profile. *Am J Surg Pathol* 1991; 15(10):942-948.

Case No. 3, Accession No. 29973 May 2006

Alameda (Alameda County Medical Center) - Inflammatory myofibroblastic tumor
Baldwin Park (Kaiser Permanente) - Inflammatory myofibroblastic tumor (3)
Fontana (Kaiser Permanente) - Inflammatory myofibroblastic tumor
Glendale - Inflammatory myofibroblastic tumor
Irvine (University of California Irvine) - Inflammatory myofibroblastic tumor
Long Beach (Lakewood Regional Medical Center) - Inflammatory myofibroblastic tumor (9)

Monterey (Community Hospital of the Monterey Peninsula) - Inflammatory myofibroblastic tumor
Monterey Park (Garfield Medical Center) - Inflammatory MFH
Mountain View (El Camino Pathology) - Inflammatory myofibroblastic tumor
Oakland - Inflammatory myofibroblastic tumor
Orange (Orange County Medical Group) - Inflammatory myofibroblastic tumor
Oxnard (St. John's Regional Medical Center) - Inflammatory pseudotumor (1); Inflammatory myofibroblastic tumor (3)
Sacramento (UC Davis) - Inflammatory myofibroblastic tumor
San Diego (Naval Medical Center) - Inflammatory myofibroblastic tumor
San Francisco (San Francisco General Hospital) - Inflammatory myofibroblastic tumor
San Francisco (UCSF School of Medicine) - Inflammatory myofibroblastic tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Inflammatory myofibroblastoma tumor (3)
Woodland Hills (Kaiser Permanente Medical Center) - Inflammatory myofibroblastic tumor
Woodland Hills (Suba's Soldiers) - Inflammatory myofibroblastic pseudotumor
Arizona, Oro Valley - Inflammatory myofibroblastic tumor
Arkansas (UAMS) - Inflammatory myofibroblastic tumor, omentum
Colorado, Denver - Inflammatory myofibroblastic tumor
Colorado, Evergreen - Inflammatory myofibroblastic tumor
Florida (Jackson Memorial Hospital) - Inflammatory myofibroblastic
Florida (Munroe Regional Medical Center) - Anaplastic large cell lymphoma
Florida (Tallahassee Pathology Association) - Inflammatory myofibroblastic tumor
Florida (Winter Haven Hospital) - Inflammatory myofibroblastic tumor (2)
Illinois, Burr Ridge - Inflammatory myofibroblastic tumor (2)
Illinois (Loyola University Medical Center) - Inflammatory myofibroblastic tumor
Indiana (Ball Memorial Hospital) - Inflammatory myofibroblastic tumor
Indiana (Kokamo Pathologist Health Systems) - Extraskeletal myxoid chondrosarcoma
Kentucky (University of Louisville) - Inflammatory myofibroblastic tumor
Maryland (Northwest Hospital Center) - Inflammatory myofibroblastic tumor
Maryland (University of Maryland) - Inflammatory myofibroblastic tumor
Massachusetts (Tufts-New England Medical Center) - Inflammatory myofibroblastic tumor
Michigan (Oakwood Hospital) - Inflammatory myofibroblastic tumor
New York (Nassau County Medical Center) - Inflammatory myofibroblastic tumor
New York (Stony Brook University Hospital Residents) - Inflammatory myofibroblastic tumor
New York (SUNY Downstate Residents) - Inflammatory myofibroblastic tumor
New York (Westchester Medical Center) - Inflammatory myofibroblastic tumor
North Carolina (Mountain Area Pathology) - Inflammatory myofibroblastic tumor
Oklahoma (Heartland Pathology Consultants) - Inflammatory myofibroblastic tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Inflammatory myofibroblastic tumor
Pennsylvania (Drexel University College of Medicine) - Inflammatory pseudotumor
Pennsylvania (Lehigh Valley Hospital) - Lymphoma
Pennsylvania (Mt. Nittany Medical Center) - Anaplastic large cell lymphoma
Pennsylvania (Pennsylvania Hospital) - Inflammatory myofibroblastic tumor
Texas (Baylor University Medical Center) - Malignant Phylloides tumor
Texas (Lackland AFB) - Inflammatory myofibroblastic tumor (IMT)
Texas, Lubbock - Anaplastic large cell lymphoma
Texas (ProPath Associates) - Epithelioid leiomyosarcoma
Texas (Scott & White Memorial Hospital) - Inflammatory pseudotumor
Texas, Victoria - Extra-pulmonary inflammatory myofibroblastic tumor
West Virginia (Greenbrier Valley Medical Center) - Large cell lymphoma
West Virginia (Wetzel County Hospital) - Inflammatory myofibroblastic tumor
Wisconsin (Meriter Health Services) - Inflammatory pseudotumor
Australia (Royal Prince Alfred Hospital) - Inflammatory myofibroblastic tumor
Australia (Sullivan Nicolaides Pathology) - Inflammatory myofibroblastic tumour
Canada (Pasqua Hospital) - Inflammatory myofibroblastic tumor
Germany (UKE, Kerminstitut fur Pathologie) - Inflammatory pseudotumor
Ireland (Kerry General Hospital) - Inflammatory myofibroblastic tumour
Japan (Kyoto University Hospital) - Inflammatory myofibroblastic tumor
Netherlands, Amstelveen - Inflammatory myofibroblastic tumor
Oman (Khoula Hospital) - Inflammatory myofibroblastic tumour
Qatar (Hamad Medical Corporation) - Inflammatory myofibroblastic tumor

Case 3 - Diagnosis:

Inflammatory myofibroblastic tumor, omentum
T-71000, M-73050

Case 3 - References:

Karnak I, Senocak ME, Ciftic AO, et al. Inflammatory Myofibroblastic Tumor in Children. Diagnosis and Treatment. *J Pediatr Surg* 2001; 36(6):908-912.

Coffin CM, Watterson J, Priest JR, et al. Extra-Pulmonary Inflammatory Myofibroblastic Tumor (Inflammatory Pseudotumor). A Clinicopathologic and Immunohistochemical Study of 84 Cases. *Am J. Surg Pathol* 1995; 19(8):859-872.

Koltaksuz U, Gursoy MH, Mutus M, et al. Multifocal Omental Mesenteric Inflammatory Pseudotumor (Plasma Cell Granuloma). *Eur J Pediatr Surg* 1999:9(6):426-429.

Case No. 4, Accession No. 29296 May 2006

Alameda (Alameda County Medical Center) - Extra-abdominal desmoid fibromatosis
Baldwin Park (Kaiser Permanente) - Fibromatosis (1); Extra-abdominal fibromatosis (1); Rhabdomyosarcoma, low grade (1)
Fontana (Kaiser Permanente) - Fibromatosis
Glendale - Fibromatosis, desmoid type
Irvine (University of California Irvine) - Fibromatosis
Long Beach (Lakewood Regional Medical Center) - Fibromatosis (9)
Monterey (Community Hospital of the Monterey Peninsula) - Desmoid
Monterey Park (Garfield Medical Center) - Extra-abdominal desmoid
Mountain View (El Camino Pathology) - Fibromatosis
Oakland - Fibromatosis
Orange (Orange County Medical Group) - Fibromatosis
Oxnard (St. John's Regional Medical Center) - Fibromatosis (1); Musculoaponeurotic fibromatosis (3)
Sacramento (UC Davis) - Extra-abdominal desmoid tumor (fibromatosis)
San Diego (Naval Medical Center) - Extra-abdominal fibromatosis
San Francisco (San Francisco General Hospital) - Desmoid fibromatosis
San Francisco (UCSF School of Medicine) - Fibromatosis
Santa Rosa (Santa Rosa Memorial Hospital) - Extra-abdominal desmoid tumor (1); Musculoaponeurotic fibromatosis (1); Extra-abdominal fibromatosis (1)
Woodland Hills (Kaiser Permanente Medical Center) - Extra-abdominal fibromatosis
Woodland Hills (Suba's Soldiers) - Fibromatosis
Arizona, Oro Valley - Fibromatosis
Arkansas (UAMS) - Fibromatosis, hip
Colorado, Denver - Fibromatosis
Colorado, Evergreen - Fibromatosis
Florida (Jackson Memorial Hospital) - Desmoid
Florida (Munroe Regional Medical Center) - Fibromatosis
Florida (Tallahassee Pathology Association) - Fibromatosis
Florida (Winter Haven Hospital) - Desmoid fibromatosis (2)
Illinois, Burr Ridge - Extra-abdominal fibromatosis (1); Low grade fibromyxoid sarcoma (1)
Illinois (Loyola University Medical Center) - Fibromatosis
Indiana (Ball Memorial Hospital) - Fibromatosis
Indiana (Kokamo Pathologist Health Systems) - Myofibroblastic tumor
Kentucky (University of Louisville) - Extra-abdominal fibromatosis
Maryland (Northwest Hospital Center) - Fibromatosis
Maryland (University of Maryland) - Desmoid tumor
Massachusetts (Tufts-New England Medical Center) - Fibromatosis
Michigan (Oakwood Hospital) - Fibromatosis
New York (Nassau County Medical Center) - Desmoid-type fibromatoses
New York (Stony Brook University Hospital Residents) - Desmoid fibromatosis
New York (SUNY Downstate Residents) - Deep fibromatosis (demoid tumor)
New York (Westchester Medical Center) - Fibromatosis
North Carolina (Mountain Area Pathology) - Fibromatosis
Oklahoma (Heartland Pathology Consultants) - Fibromatosis
Pennsylvania (Conemaugh Memorial Medical Center) - Fibromatosis, desmoid
Pennsylvania (Drexel University College of Medicine) - Extra-abdominal fibromatosis
Pennsylvania (Lehigh Valley Hospital) - Fibromatosis
Pennsylvania (Mt. Nittany Medical Center) - Musculoaponeurotic fibromatosis

Pennsylvania (Pennsylvania Hospital) - Fibromatosis
Texas (Baylor University Medical Center) - Fibroma with infarction
Texas (Lackland AFB) - Desmoid tumor
Texas, Lubbock - Desmoid tumor
Texas (ProPath Associates) - Desmoid tumor
Texas (Scott & White Memorial Hospital) - Extra-abdominal desmoid
Texas, Victoria - Extra-abdominal fibromatosis
West Virginia (Greenbrier Valley Medical Center) - Low grade fibromyxoid sarcoma
West Virginia (Wetzel County Hospital) - Fibromatosis
Wisconsin (Meriter Health Services) - Fibromatosis (desmoid)
Australia (Royal Prince Alfred Hospital) - Desmoid-type fibromatosis
Australia (Sullivan Nicolaides Pathology) - Fibromatosis
Canada (Pasqua Hospital) - Fibromatosis
Germany (UKE, Kerminstitut fur Pathologie) - Fibromatosis
Ireland (Kerry General Hospital) - Fibromatosis
Japan (Kyoto University Hospital) - Desmoid type fibromatosis
Netherlands, Amstelveen - Fibromatosis, desmoid type
Oman (Khoula Hospital) - Fibromatosis
Qatar (Hamad Medical Corporation) - Fibromatosis

Case 4 - Diagnosis:

Fibromatosis, buttock
T-14450, M-76100

Case 4 - References:

Allen PW. The Fibromatoses. A Clinicopathologic Classification Based on 140 Cases. *Am J Surg Pathol* 1977; 1(3):255-270.

Bridge JA, Sreekantaiah C, Mouron B, et al. Clonal Chromosomal Abnormalities in Desmoid Tumors. Implications for Histopathogenesis. *Cancer* 1992; 69(2):430-436.

Reitamo JJ, Hayry P, Nykyri E, et al. Desmoid Tumor Incidence, Sex, Age, An Anatomical Distribution in the Finnish Population. *Am J Clin Pathol* 1982; 77(6):665-673.

Karakousis CP, Mayordomo J, Zografos GC, et al. Desmoid Tumors of the Trunk and Extremity. *Cancer* 1993; 72(5):1637-1641.

Case No. 5, Accession No. 30144 May 2006

Alameda (Alameda County Medical Center) - Infantile fibrosarcoma
Baldwin Park (Kaiser Permanente) - Neuroblastoma (3)
Fontana (Kaiser Permanente) - Infantile fibrosarcoma
Glendale - Infantile fibrosarcoma
Irvine (University of California Irvine) - Cellular congenital mesoblastic nephroma
Long Beach (Lakewood Regional Medical Center) - Sarcoma, NOS (9)
Monterey (Community Hospital of the Monterey Peninsula) - Malignant tumor sarcoma vs. teratoma vs. lymphoma
Monterey Park (Garfield Medical Center) - Fibrosarcoma
Mountain View (El Camino Pathology) - Infantile fibrosarcoma
Oakland - Carcinosarcoma
Orange (Orange County Medical Group) - Infantile fibrosarcoma
Oxnard (St. John's Regional Medical Center) - Malignant teratoma with possible vascular invasion (1); (1); Malignant small round cell neoplasm (malignant sacrococcygeal terratoma) (1); Sacrococcygeal teratoma, germinomatous (1)
Sacramento (UC Davis) - Primitive myxoid mesenchymal tumor of infancy
San Diego (Naval Medical Center) - Infantile fibrosarcoma
San Francisco (San Francisco General Hospital) - Infantile fibrosarcoma
San Francisco (UCSF School of Medicine) - Infantile fibrosarcoma
Santa Rosa (Santa Rosa Memorial Hospital) – Infantile fibrosarcoma (1); Poorly differentiated sarcoma, NOS (1); Congenital/infantile fibrosarcoma (1);
Woodland Hills (Kaiser Permanente Medical Center) - Congenital fibrosarcoma
Woodland Hills (Suba's Soldiers) - Congenital fibrosarcoma
Arizona, Oro Valley - Congenital fibrosarcoma

Arkansas (UAMS) - Infantile fibrosarcoma, coccygeal area
Colorado, Denver - Fibrosarcoma
Colorado, Evergreen - Lipoblastoma
Florida (Jackson Memorial Hospital) - Sarcoma, liposarcoma
Florida (Munroe Regional Medical Center) - Lipoblastoma
Florida (Tallahassee Pathology Association) - Infantile fibromatosis, infantile fibrosarcoma
Florida (Winter Haven Hospital) - Anaplastic sarcoma (2)
Illinois, Burr Ridge - Embryonal rhabdomyosarcoma, botryoid (1); Myxoid and round cell liposarcoma (1)
Illinois (Loyola University Medical Center) - Congenital fibrosarcoma
Indiana (Ball Memorial Hospital) - Congenital infantile fibrosarcoma
Indiana (Kokamo Pathologist Health Systems) - PNET
Kentucky (University of Louisville) - Infantile fibrosarcoma
Maryland (Northwest Hospital Center) - Infantile fibrosarcoma
Maryland (University of Maryland) - Lipoblastoma (1st); Liposarcoma (2nd)
Massachusetts (Tufts-New England Medical Center) - Infantile fibromatosis
Michigan (Oakwood Hospital) - Infantile fibrosarcoma
New York (Nassau County Medical Center) - Dedifferentiated liposarcoma
New York (Stony Brook University Hospital Residents) - Myofibroma
New York (SUNY Downstate Residents) - Lipoblastoma, myxoid liposarcoma
New York (Westchester Medical Center) - Infantile fibrosarcoma
North Carolina (Mountain Area Pathology) - Infantile fibrosarcoma
Oklahoma (Heartland Pathology Consultants) - DFSP
Pennsylvania (Conemaugh Memorial Medical Center) - Myofibromatosis (low grade sarcoma cannot be excluded)
Pennsylvania (Drexel University College of Medicine) - Infantile fibrosarcoma
Pennsylvania (Lehigh Valley Hospital) - Immature teratoma
Pennsylvania (Mt. Nittany Medical Center) - Extraskelatal Ewing's sarcoma/PNET
Pennsylvania (Pennsylvania Hospital) - Congenital fibrosarcoma
Texas (Baylor University Medical Center) - Acinic cell carcinoma
Texas (Lackland AFB) - Infantile fibrosarcoma
Texas, Lubbock - Myxoid chondrosarcoma
Texas (ProPath Associates) - Infantile fibrosarcoma
Texas (Scott & White Memorial Hospital) - Infantile fibrosarcoma
Texas, Victoria - Sarcoma, type ? cellular myxoid liposarcoma
West Virginia (Greenbrier Valley Medical Center) - PNET
West Virginia (Wetzel County Hospital) - Infantile fibrosarcoma
Wisconsin (Meriter Health Services) - Infantile fibrosarcoma
Australia (Royal Prince Alfred Hospital) - Infantile fibrosarcoma
Australia (Sullivan Nicolaides Pathology) - Infantile fibrosarcoma
Canada (Pasqua Hospital) - Neuroblastoma
Germany (UKE, Kerminstitut fur Pathologie) - Congenital fibrosarcoma
Ireland (Kerry General Hospital) - Infantile (congenital) fibrosarcoma, t(12;15) tumour
Japan (Kyoto University Hospital) - Round and spindle cell sarcoma with some hemangiopericytomatous pattern
Netherlands, Amstelveen - Sarcoma, NOS
Oman (Khoula Hospital) - Infantile fibrosarcoma
Qatar (Hamad Medical Corporation) - Infantile fibrosarcoma

Case 5 - Diagnosis:

Congenital/infantile fibrosarcoma, coccygeal mass
T-Y1420, M-88143

Case 5 - References:

Diel J, Ortiz O, Losada RA, et al. The Sacrum. Pathologic Spectrum, Mulimodality Imaging and Subspecialty Approach. *Radiographics* 2001; 21(1):83-104.
Coffin CM, Jaszcz W, O'Shea PA et al. So-Called Congenital-Infantile Fibrosarcoma. Does It Exist and What is It? *Pediatr Pathol* 1994; 14(1):133-150.
Hays DM, Mirabal VQ, Karlan MS, et al. Fibrosarcomas in Infants and Children. *J Pediatr Surg* 1970; 5:176-183.
Schofield DE, Fletcher JA, Grier HE, et al. Fibrosarcoma in Infants and Children. Application of New Techniques. *Am J Surg Pathol* 1994; 18(1):14-24.

Alameda (Alameda County Medical Center) - Dysgerminoma
Baldwin Park (Kaiser Permanente) - Dysgerminoma (3)
Fontana (Kaiser Permanente) - Dysgerminoma
Glendale - Dysgerminoma
Irvine (University of California Irvine) - Dysgerminoma
Long Beach (Lakewood Regional Medical Center) - Dysgerminoma (9)
Monterey (Community Hospital of the Monterey Peninsula) - Dysgerminoma
Monterey Park (Garfield Medical Center) - Dysgerminoma
Mountain View (El Camino Pathology) - Dysgerminoma
Oakland - Dysgerminoma
Orange (Orange County Medical Group) - Dysgerminoma
Oxnard (St. John's Regional Medical Center) - Dysgerminoma (4)
Sacramento (UC Davis) - Dysgerminoma
San Diego (Naval Medical Center) - Dysgerminoma
San Francisco (San Francisco General Hospital) - Dysgerminoma
San Francisco (UCSF School of Medicine) - Dysgerminoma
Santa Rosa (Santa Rosa Memorial Hospital) - Dysgerminoma (3)
Woodland Hills (Kaiser Permanente Medical Center) - Dysgerminoma
Woodland Hills (Suba's Soldiers) - Dysgerminoma
Arizona, Oro Valley - Dysgerminoma
Arkansas (UAMS) - Dysgerminoma, ovary
Colorado, Denver - Dysgerminoma
Colorado, Evergreen - Dysgerminoma
Florida (Jackson Memorial Hospital) - Dysgerminoma
Florida (Munroe Regional Medical Center) - Dysgerminoma
Florida (Tallahassee Pathology Association) - Dysgerminoma
Florida (Winter Haven Hospital) - Dysgerminoma (2)
Illinois, Burr Ridge - Dysgerminoma (2)
Illinois (Loyola University Medical Center) - Dysgerminoma
Indiana (Ball Memorial Hospital) - Dysgerminoma
Indiana (Kokamo Pathologist Health Systems) - Dysgerminoma
Kentucky (University of Louisville) - Dysgerminoma
Maryland (Northwest Hospital Center) - Dysgerminoma
Maryland (University of Maryland) - Dysgerminoma
Massachusetts (Tufts-New England Medical Center) - Dysgerminoma
Michigan (Oakwood Hospital) - Dysgerminoma
New York (Nassau County Medical Center) - Dysgerminoma
New York (Stony Brook University Hospital Residents) - Dysgerminoma
New York (SUNY Downstate Residents) - Dysgerminoma
New York (Westchester Medical Center) - Dysgerminoma
North Carolina (Mountain Area Pathology) - Dysgerminoma
Oklahoma (Heartland Pathology Consultants) - Dysgerminoma
Pennsylvania (Conemaugh Memorial Medical Center) - Dysgerminoma
Pennsylvania (Drexel University College of Medicine) - Dysgerminoma
Pennsylvania (Lehigh Valley Hospital) - Dysgerminoma
Pennsylvania (Mt. Nittany Medical Center) - Small cell carcinoma, hypercalcemic type
Pennsylvania (Pennsylvania Hospital) - Dysgerminoma
Texas (Baylor University Medical Center) - Leiomyosarcoma
Texas (Lackland AFB) - Dysgerminoma
Texas, Lubbock - Dysgerminoma
Texas (ProPath Associates) - Dysgerminoma
Texas (Scott & White Memorial Hospital) - Dysgerminoma
Texas, Victoria - Dysgerminoma
West Virginia (Greenbrier Valley Medical Center) - Juvenile granulosa cell tumor
West Virginia (Wetzel County Hospital) - Dysgerminoma
Wisconsin (Meriter Health Services) - Dysgerminoma
Australia (Royal Prince Alfred Hospital) - Dysgerminoma
Australia (Sullivan Nicolaides Pathology) - Dysgerminoma
Canada (Pasqua Hospital) - Dysgerminoma
Germany (UKE, Kerminstitut fur Pathologie) - Dysgerminoma
Ireland (Kerry General Hospital) - Dysgerminoma

Japan (Kyoto University Hospital) - Dysgerminoma
Netherlands, Amstelveen - Dysgerminoma
Oman (Khoula Hospital) - Dysgerminoma
Qatar (Hamad Medical Corporation) - Dysgerminoma

Case 6 - Diagnosis:

Dysgerminoma, ovary
T-87000, M-90603

Case 6 - References:

LaPolla JP, Benda J, Vigliotti AP, et al. Dysgerminoma of the Ovary. *Obset Gynecol* 1987; 69(6):859-864.
DePalo G, Lattuada A, Kenda R, et al. Germ Cell Tumors of the Ovary. The Experience of the National Cancer Institute of Milan I. Dysgermanoma. *Int J Radiat Oncol Biol Phys* 1987; 13(6):853-860.
Mullin TJ, Lankerani MP. Ovarian Dysgerminoma Immunocytochemical Localization of Human Chorionic Gonaadotropin in the Germinoma Cell Cytoplasm. *Obstet Gynecol* 1986; 68:80S-83S.
Akhtar M, Rank E and Bakri RY. Dysgerminoma of the Ovary with Rhabdomyosarcoma. Report of a Case. *Cancer* 1989; 64(11):2309-2312.
Case Records of the Massachusetts General Hospital. Case 11-1972. Dysgerminoma of Left Ovary with Synctiotrophoblastic-like Giant Cells and Minute Focus of Embryonal Carcinoma and with Lutenization of Stroma. *N Eng J Med* 1972; 286:594-600.

Case No. 7, Accession No. 30136 May 2006

Alameda (Alameda County Medical Center) - Immature teratoma
Baldwin Park (Kaiser Permanente) - Immature teratoma (3)
Fontana (Kaiser Permanente) - Immature teratoma
Glendale - Immature teratoma, low-grade
Irvine (University of California Irvine) - Immature teratoma
Long Beach (Lakewood Regional Medical Center) - Immature teratoma (9)
Monterey (Community Hospital of the Monterey Peninsula) - Immature teratoma
Monterey Park (Garfield Medical Center) - Immature teratoma
Mountain View (El Camino Pathology) - Immature teratoma, grade I
Oakland - Teratoma
Orange (Orange County Medical Group) - Immature teratoma
Oxnard (St. John's Regional Medical Center) - Teratoma consistent with borderline malignant neural tissue (1); Mature teratoma (1); Teratoma consistent with focal immature neural elements (1); Solid mature teratoma (1)
Sacramento (UC Davis) - Teratoma with immature components, Grade I
San Diego (Naval Medical Center) - Immature teratoma
San Francisco (San Francisco General Hospital) - Immature teratoma
San Francisco (UCSF School of Medicine) - Immature teratoma
Santa Rosa (Santa Rosa Memorial Hospital) - Immature teratoma, Grade I (2); Immature teratoma, with occasional foci of immature neuroepithelial tissue, Grade II (1);
Woodland Hills (Kaiser Permanente Medical Center) - Immature teratoma, low grade
Woodland Hills (Suba's Soldiers) - Teratoma (immature)
Arizona, Oro Valley - Immature teratoma
Arkansas (UAMS) - Immature teratoma, ovary
Colorado, Denver - Immature teratoma
Colorado, Evergreen - Immature teratoma
Florida (Jackson Memorial Hospital) - Immature teratoma, grade I
Florida (Munroe Regional Medical Center) - Immature teratoma
Florida (Tallahassee Pathology Association) - Immature teratoma
Florida (Winter Haven Hospital) - Immature teratoma (2)
Illinois, Burr Ridge - Immature teratoma (2)
Illinois (Loyola University Medical Center) - Immature teratoma

Indiana (Ball Memorial Hospital) - Grade I, immature cystic teratoma
Indiana (Kokamo Pathologist Health Systems) - Mature teratoma
Kentucky (University of Louisville) - Immature teratoma
Maryland (Northwest Hospital Center) - Teratoma
Maryland (University of Maryland) - Teratoma, mature & immature
Massachusetts (Tufts-New England Medical Center) - Immature teratoma
Michigan (Oakwood Hospital) - Immature teratoma
New York (Nassau County Medical Center) - Immature teratoma
New York (Stony Brook University Hospital Residents) - Teratoma, immature
New York (SUNY Downstate Residents) - Immature teratoma
New York (Westchester Medical Center) - Teratoma with immature neural elements
North Carolina (Mountain Area Pathology) - Immature teratoma
Oklahoma (Heartland Pathology Consultants) - Immature teratoma
Pennsylvania (Conemaugh Memorial Medical Center) - Immature teratoma
Pennsylvania (Drexel University College of Medicine) - Immature teratoma
Pennsylvania (Lehigh Valley Hospital) - Immature with ?
Pennsylvania (Mt. Nittany Medical Center) - Immature teratoma, grade II/III
Pennsylvania (Pennsylvania Hospital) - Immature teratoma
Texas (Baylor University Medical Center) - Mesothelioma
Texas (Lackland AFB) - Dermoid cyst (focal immature neural elements)
Texas, Lubbock - Immature teratoma
Texas (ProPath Associates) - Grade I, immature teratoma
Texas (Scott & White Memorial Hospital) - Teratoma with focal immature neural elements
Texas, Victoria - Immature teratoma
West Virginia (Greenbrier Valley Medical Center) - Immature teratoma
West Virginia (Wetzel County Hospital) - Immature teratoma, grade 2
Wisconsin (Meriter Health Services) - Immature teratoma
Australia (Royal Prince Alfred Hospital) - Immature teratoma
Australia (Sullivan Nicolaides Pathology) - Immature teratoma
Canada (Pasqua Hospital) - Immature teratoma
Germany (UKE, Kerminstitut fur Pathologie) - Germ cell tumor (yolk sac)
Ireland (Kerry General Hospital) - Grade 2, immature teratoma
Japan (Kyoto University Hospital) - Immature teratoma
Netherlands, Amstelveen - Immature teratoma
Oman (Khoula Hospital) - Immature teratoma, grade II
Qatar (Hamad Medical Corporation) - Immature teratoma

Case 7 - Diagnosis:

Immature teratoma, ovary
T-87000, M-90801

Case 7 - References:

Norris HJ, Zirkin HJ and Benson WL. Immature (Malignant) Teratoma of the Ovary. A Clinical and Pathologic Study of 58 Cases. *Cancer* 1976; 37(5):2359-2372.
Yanai-Inbar I and Scully RE. Relation of Ovarian Dermoid Cysts and Immature Teratomas. An Analysis of 350 Cases of Immature Teratoma and 10 Cases of Dermoid Cyst and Microscopic Foci of Immature Tissue. *Int J Gynecol Pathol* 1987; 6(3):203-212.
Robby SJ and Scully RE. Ovarian Teratoma with Glial Implants on the Peritoneum. An Analysis of 12 Cases. *Hum Pathol* 1970; 1(4):643-653.

Case No. 8, Accession No. 30207 May 2006

Alameda (Alameda County Medical Center) - Yolk sac tumor
Baldwin Park (Kaiser Permanente) - Yolk sac tumor (3)

Fontana (Kaiser Permanente) - Yolk sac tumor
Glendale - Yolk sac tumor
Irvine (University of California Irvine) - Endodermal sinus tumor
Long Beach (Lakewood Regional Medical Center) - Yolk sac tumor (9)
Monterey (Community Hospital of the Monterey Peninsula) - Yolk sac tumor
Monterey Park (Garfield Medical Center) - Embryonal carcinoma
Mountain View (El Camino Pathology) - Yolk sac tumor
Oakland - Yolk sac tumor
Orange (Orange County Medical Group) - Yolk sac tumor
Oxnard (St. John's Regional Medical Center) - Yolk sac tumor (4)
Sacramento (UC Davis) - Yolk sac tumor
San Diego (Naval Medical Center) - Yolk sac tumor
San Francisco (San Francisco General Hospital) - Yolk sac tumor
San Francisco (UCSF School of Medicine) - Yolk sac tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Endodermis sinus tumor (yolk sac tumor) (3)
Woodland Hills (Kaiser Permanente Medical Center) - Yolk sac tumor
Woodland Hills (Suba's Soldiers) - Germ cell tumor (yolk sac on slide)
Arizona, Oro Valley - Yolk sac tumor
Arkansas (UAMS) - Yolk sac tumor, testis
Colorado, Denver - Yolk sac tumor
Colorado, Evergreen - Yolk sac tumor
Florida (Jackson Memorial Hospital) - Yolk sac tumor
Florida (Munroe Regional Medical Center) - Yolk sac tumor
Florida (Tallahassee Pathology Association) - Yolk sac tumor
Florida (Winter Haven Hospital) - Yolk sac carcinoma (2)
Illinois, Burr Ridge - Yolk sac tumor (2)
Illinois (Loyola University Medical Center) - Yolk sac tumor
Indiana (Ball Memorial Hospital) - Yolk sac tumor
Indiana (Kokamo Pathologist Health Systems) - Mixed germ cell tumor
Kentucky (University of Louisville) - Yolk sac tumor
Maryland (Northwest Hospital Center) - Yolk sac tumor
Maryland (University of Maryland) - Yolk sac tumor
Massachusetts (Tufts-New England Medical Center) - Yolk sac tumor
Michigan (Oakwood Hospital) - Yolk sac tumor
New York (Nassau County Medical Center) - Yolk sac tumor
New York (Stony Brook University Hospital Residents) - Yolk sac tumor
New York (SUNY Downstate Residents) - Yolk sac tumor
New York (Westchester Medical Center) - Yolk sac tumor
North Carolina (Mountain Area Pathology) - Yolk sac tumor
Oklahoma (Heartland Pathology Consultants) - Yolk sac tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Yolk sac tumor
Pennsylvania (Drexel University College of Medicine) - Yolk sac tumor
Pennsylvania (Lehigh Valley Hospital) - Yolk sac tumor
Pennsylvania (Mt. Nittany Medical Center) - Yolk sac tumor
Pennsylvania (Pennsylvania Hospital) - Yolk sac tumor
Texas (Baylor University Medical Center) - Synovial sarcoma
Texas (Lackland AFB) - Yolk sac tumor
Texas, Lubbock - Yolk sac tumor
Texas (ProPath Associates) - Endodermal sinus tumor
Texas (Scott & White Memorial Hospital) - Yolk sac/endodermal sinus tumor
Texas, Victoria - Yolk sac tumor
West Virginia (Greenbrier Valley Medical Center) - Yolk sac tumor
West Virginia (Wetzel County Hospital) - Yolk sac tumor
Wisconsin (Meriter Health Services) - Yolk sac tumor
Australia (Royal Prince Alfred Hospital) - Endodermal sinus tumor (yolk sac tumor)
Australia (Sullivan Nicolaides Pathology) - Yolk sac tumor
Canada (Pasqua Hospital) - Endodermal sinus tumor
Germany (UKE, Kerminstitut fur Pathologie) - Immature teratoma
Ireland (Kerry General Hospital) - Yolk sac tumour
Japan (Kyoto University Hospital) - Yolk sac tumor
Netherlands, Amstelveen - Yolk sac tumor
Oman (Khoula Hospital) - Yolk sac tumour
Qatar (Hamad Medical Corporation) - Yolk sac tumor

Case 8 - Diagnosis:

Yolk sac tumor (endodermal sinus tumor), testis
T-78000, M-90713

Case 8 – References:

Pierce GB, Bullock WK and Huntington RW, Jr. Yolk Sac Tumors of the Testis. *Cancer* 1970; 25(3):644-658.
Teoh TB, Steward JK and Willis RA. The Distinctive Adenocarcinoma of the Infant's Testis. An Account of 15 Cases. *J Pathol Bacteriol* 1960; 80:147-156.
Ulbright TM, Amin MB and Young RH. *Atlas of Tumor Pathology*, Third Series. Fascicle 25. Tumors of the Testis, Adnexa, Spermatic Cord and Scrotum. *Armed Forces Institute of Pathology*, Washington DC 1999.

Case No. 9, Accession No. 29051 May 2006

Alameda (Alameda County Medical Center) - Neuroblastoma
Baldwin Park (Kaiser Permanente) - Ganglioneuroma
Fontana (Kaiser Permanente) - Ganglioneuroblastoma
Glendale - Ganglioneuroblastoma
Irvine (University of California Irvine) - Neuroblastoma, well-differentiated
Long Beach (Lakewood Regional Medical Center) - Ganglioneuroblastoma (9)
Monterey (Community Hospital of the Monterey Peninsula) - Neuroblastoma
Monterey Park (Garfield Medical Center) - Differentiating gangioneuroblastoma
Mountain View (El Camino Pathology) - Ganglioneuroblastoma
Oakland - Sarcoma vs. melanoma
Orange (Orange County Medical Group) - Neuroblastoma
Oxnard (St. John's Regional Medical Center) - Ganglioneuroblastoma (3)
Sacramento (UC Davis) - Peripheral nerve sheath tumor
San Diego (Naval Medical Center) - Differentiating neuroblastoma
San Francisco (San Francisco General Hospital) - Myxopapillary ependymoma
San Francisco (UCSF School of Medicine) - Differentiating neuroblastoma
Santa Rosa (Santa Rosa Memorial Hospital) - Ganglioneuroblastoma (3)
Woodland Hills (Kaiser Permanente Medical Center) - Ganglioneuroblastoma
Woodland Hills (Suba's Soldiers) - Neuroblastoma, maturing with ganglioneuroma
Arizona, Oro Valley - Ganglioneuroblastoma
Arkansas (UAMS) - Ganglioneuroblastoma, retroperitoneum
Colorado, Denver - Ganglioneuroblastoma
Colorado, Evergreen - Ganglioneuroblastoma
Florida (Jackson Memorial Hospital) - Ganglioneuroblastoma
Florida (Munroe Regional Medical Center) - Ganglioneuroblastoma
Florida (Tallahassee Pathology Association) - Ganglioneuroblastoma
Florida (Winter Haven Hospital) - Ganglioneuroblastoma (2)
Illinois, Burr Ridge - Ganglioneuroblastoma (2)
Illinois (Loyola University Medical Center) - Neuroblastoma differentiating
Indiana (Ball Memorial Hospital) - Ganglioneuroblastoma
Indiana (Kokamo Pathologist Health Systems) - Malignant paraganglioma
Kentucky (University of Louisville) - Ganglioneuroblastoma vs. differentiating neuroblastoma
Maryland (Northwest Hospital Center) - Neuroblastoma
Maryland (University of Maryland) - Neuroblastoma
Massachusetts (Tufts-New England Medical Center) - Differentiating neuroblastoma
Michigan (Oakwood Hospital) - Ganglioneuroblastoma
New York (Nassau County Medical Center) - Ganglioneuroblastoma
New York (Stony Brook University Hospital Residents) - Ganglioneuroblastoma
New York (SUNY Downstate Residents) - Ganglioneuroblastoma
New York (Westchester Medical Center) - Neuroblastoma, differentiating
North Carolina (Mountain Area Pathology) - Ganglioneuroblastoma
Oklahoma (Heartland Pathology Consultants) - Ganglioneuroblastoma
Pennsylvania (Conemaugh Memorial Medical Center) - Mature neuroblastoma
Pennsylvania (Drexel University College of Medicine) - Ganglioneuroblastoma (intermixed)
Pennsylvania (Lehigh Valley Hospital) - Ganglioneuroblastoma
Pennsylvania (Mt. Nittany Medical Center) - Ganglioneuroblastoma

Pennsylvania (Pennsylvania Hospital) - Neuroblastoma, differentiating
Texas (Baylor University Medical Center) - Smooth muscle tumor
Texas (Lackland AFB) - Neuroblastoma
Texas, Lubbock - Ganglioneuroblastoma
Texas (ProPath Associates) - Ganglioneuroblastoma
Texas (Scott & White Memorial Hospital) - Ganglioneuroma
Texas, Victoria - Malignant peripheral nerve sheath tumor
West Virginia (Greenbrier Valley Medical Center) - Malignant peripheral nerve sheath tumor
West Virginia (Wetzel County Hospital) - Ganglioneuroblastoma
Wisconsin (Meriter Health Services) - Ganglioneuroblastoma
Australia (Royal Prince Alfred Hospital) - Ganglioneuroblastoma
Australia (Sullivan Nicolaides Pathology) - Ganglioneuroblastoma
Canada (Pasqua Hospital) - Ganglioneuroblastoma
Germany (UKE, Kerminstitut fur Pathologie) - Ganglioneuroblastoma
Ireland (Kerry General Hospital) - ? neuroblastic medulloblastoma
Japan (Kyoto University Hospital) - Ganglioneuroblastoma
Netherlands, Amstelveen - Ganglioneuroblastoma
Oman (Khoula Hospital) - Ganglioneuroblastoma
Qatar (Hamad Medical Corporation) - Ganglioneuroblastoma

Case 9 - Diagnosis:

Neuroblastoma with differentiation into ganglioneuroblastoma
T-Y4100, M-95003

Case 9 – References:

Wirnsberger GH, Becker H, Ziervogel K, et al. Diagnostic Immunohistochemistry of Neuroblastic Tumors. *Am J Surg Pathol* 1992; 16(1):49-57.
Coco S, Defferrari R, Scaruffi P, et al. Gernome Analysis and Gene Expression Profiling of Neuroblastoma and Ganglioneuroblastoma Reveal Differences Between Neuroblastic and Schwannian Stromal Cells. *J Pathol* (England) 2005; 207(3):346-357.
Peuchmaur M, d'Amore ES, Joshi VV, et al. Revision of the International Neuroblastoma Pathology Classification. Confirmation of Favorable and Unfavorable Prognostic Subsets in Ganglioneuroblastoma, Nodular. *Cancer* 2003; 98(10):2274-2281.
Lonergan GJ, Schwab CM, Suarez, ES, et al. Neuroblastoma, Ganglioneuroblstoma, and Ganglioneuroma. Radiologic-Pathologic Correlation. *Radiographics* 2002; 22(4):911-934.

Case No. 10, Accession No. 29858 May 2006

Alameda (Alameda County Medical Center) - Primitive neuroectodermal tumor
Baldwin Park (Kaiser Permanente) - PNET (1); Ewings sarcoma/PNET (2)
Fontana (Kaiser Permanente) - Malignant melanoma of soft part (clear cell sarcoma)
Glendale - Epithelioid sarcoma
Irvine (University of California Irvine) - Primitive neuroectodermal tumor
Long Beach (Lakewood Regional Medical Center) - PNET (9)
Monterey (Community Hospital of the Monterey Peninsula) - Sarcoma
Monterey Park (Garfield Medical Center) - Primitive neuroectodermal carcinoma
Mountain View (El Camino Pathology) - Primitive neuroectodermal tumor
Oakland - Sarcoma vs. melanoma
Orange (Orange County Medical Group) - Extra-renal malignant rhabdoid tumor
Oxnard (St. John's Regional Medical Center) - PNET (4)
Sacramento (UC Davis) - Peripheral neuroectodermal tumor
San Diego (Naval Medical Center) - High grade sarcoma with rhabdoid features (1); Extra-renal malignant rhabdoid tumor (1)
San Francisco (San Francisco General Hospital) - Clear cell sarcoma of soft parts
San Francisco (UCSF School of Medicine) - Small round cell tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Extra-osseous Ewing sarcoma (1); Extra-skeletal Ewing sarcoma (1); Malignant peripheral nerve sheath tumor (1)
Woodland Hills (Kaiser Permanente Medical Center) - Melanoma

Woodland Hills (Suba's Soldiers) - Poorly differentiated malignant neoplasm (cloacogenic vs. melanoma?)
Arizona, Oro Valley - Malignant peripheral nerve sheath tumor
Arkansas (UAMS) - Malignant neoplasm, favor desmoplastic small round cell tumor, anus
Colorado, Denver - Rhabdomyosarcoma, embryonal
Colorado, Evergreen - Alveolar rhabdomyosarcoma
Florida (Jackson Memorial Hospital) - Extra-osseous Ewing/primitive neuroectodermal tumor (PNET)
Florida (Munroe Regional Medical Center) - PNET
Florida (Tallahassee Pathology Association) - Spindled and epithelioid melanocytic proliferation, proliferative melanocytic nodule
Florida (Winter Haven Hospital) - Peripheral neuroectodermal tumor (2)
Illinois, Burr Ridge - Ewing's sarcoma/PNET (1): Malignant rhabdoid tumor (1)
Illinois (Loyola University Medical Center) - Ewings/PNET
Indiana (Ball Memorial Hospital) - Embryonal rhabdomyosarcoma
Indiana (Kokamo Pathologist Health Systems) - Embryonal rhabdomyosarcoma
Kentucky (University of Louisville) - PNET/Ewing sarcoma
Maryland (Northwest Hospital Center) - Malignant peripheral nerve sheath tumor
Maryland (University of Maryland) - Clear cell sarcoma (1); PNET (1)
Massachusetts (Tufts-New England Medical Center) - PNET
Michigan (Oakwood Hospital) - Neuroblastoma
New York (Nassau County Medical Center) - Primitive neuroectodermal tumor
New York (Stony Brook University Hospital Residents) - Malignant rhabdoid tumor
New York (SUNY Downstate Residents) - Epithelioid peripheral nerve sheath tumor
New York (Westchester Medical Center) - PNET with neural differentiation
North Carolina (Mountain Area Pathology) - Ewing's /PNET
Oklahoma (Heartland Pathology Consultants) - PNET
Pennsylvania (Conemaugh Memorial Medical Center) - Ewing's sarcoma
Pennsylvania (Drexel University College of Medicine) - PNET/extra-skeletal Ewing's sarcoma
Pennsylvania (Lehigh Valley Hospital) - Malignant peripheral nerve sheath tumor
Pennsylvania (Mt. Nittany Medical Center) - Extra-skeletal Ewing's sarcoma/PNET
Pennsylvania (Pennsylvania Hospital) - Neuroblastoma
Texas (Baylor University Medical Center) - Chondrosarcoma
Texas (Lackland AFB) - Extra-renal rhabdoid tumor
Texas, Lubbock - Chondrosarcoma
Texas (ProPath Associates) - Peripheral neuroectodermal tumor
Texas (Scott & White Memorial Hospital) - Synovial sarcoma
Texas, Victoria - Undifferentiated malignancy, type ? germ cell tumor
West Virginia (Greenbrier Valley Medical Center) - Congenital malignant melanoma
West Virginia (Wetzel County Hospital) - Peripheral neuroectodermal tumor
Wisconsin (Meriter Health Services) - PNET
Australia (Royal Prince Alfred Hospital) - Ewing's sarcoma/PNET
Australia (Sullivan Nicolaides Pathology) - Ewing's sarcoma/PNET
Canada (Pasqua Hospital) - PNET
Germany (UKE, Kerminstitut fur Pathologie) - PNET
Ireland (Kerry General Hospital) - ? melanoma
Japan (Kyoto University Hospital) - PNET
Netherlands, Amstelveen - Ewing's sarcoma/PNET
Qatar (Hamad Medical Corporation) - PNET

Case 10 - Diagnosis:

Primitive high grade neoplasm, likely variant of PNET, anal verge
T-Y1701, M-93630

Case 10 - References:

Bisogno G, Carli M, Stevens M, et al. Intensive Chemotherapy for Children and Young Adults with Metastatic Primitive Neuroectodermal Tumors of the Soft Tissue. *Bone Marrow Transplant* (England) 2002; 30(5):297-302.

Miser JS, Krailo M.D, Tarbell NJ, et al. Treatment of Metastatic Ewing's Sarcoma or Primitive Neuroectodermal Tumor of Bone. Evaluation of Combination Ifosfamide and Etoposide—Children's Cancer Group and Pediatric Oncology Group Study. *J Clin Oncol* 2004; 22(14):2873-2876.

Yamaguchi U, Hasegawa T, Morimoto Y, et al. A Practical Approach to the Clinical Diagnosis of Ewing's Sarcoma/Primitive Neuroectodermal Tumour and Other Small Round Cell Tumors Sharing EWS Rearrangement Using New Fluorescence In-Situ Hybridisation Probes for EWSR1 on Formalin Fixed, Paraffin Wax Embedded Tissue. *J Clin Pathol* 2005; 58(10):1051-1056.

O'Sullivan MJ, Perlman EJ, Furman J, et al. Visceral Primitive Peripheral Neuroectodermal Tumors. A Clinicopathologic and Molecular Study. *Hum Pathol* 2001; 32(10):1109-1115.

Maitra A, Roberts H, Weinberg AG, et al. Aberrant Expression of Tumor Suppressor Proteins in the Ewing Family of Tumors. *Arch Pathol Lab Med* 2001; 125(9):1207-1212.