



CALIFORNIA  
TUMOR TISSUE REGISTRY

*GENERAL PATHOLOGY*

Minutes – Subscription A

November, 2002



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

SNOWMED CT Unlocks the Power of Clinical Data for Pathologists. Spackman KA, et al. *Lab Med* 2002; 3(33):263-264.

Diagnosis and Management of Smallpox. Breman JG, and Henderson DA, et al. *N. Engl J Med* 2002; 346(17):1300-1308.

Primer on Medical Genomics. Part II. Background Principles and Methods in Molecular Genetics. Tefferi A, Wieben ED, Dewald CW, et al. *Mayo Clin Proc* 2002; 77(8):785-808.

Primer on Medical Genomics. Part III. Microarray Experiments and Data Analysis. Bolander ME, Ansell SM, Wieben ED, et al. *Mayo Clin Proc* 2002; 77:927-940.

Inhibition of Human Telomerase in Immortal Human Cells Leads to Progressive Telomere Shortening and Cell Death. Herbert BS, Pitts AE, Baker SI, et al. *Proc Natl Acad Sci USA* 1999; 96:14276-14281.

Dendritic Cells as Immunologic Adjuvants for the Treatment of Cancer. Baggers J, Ratzinger G and Young TW. *J Clin Oncol* 2000; 18(23):3879-3882.

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## **FILE DIAGNOSES**

**CTTR Subscription A**

**November 2002**

**Case 1:**

**Intra-abdominal fibromatosis (“desmoid tumor”), abdomen**  
T-Y4100, M-76100

**Case 2:**

**Solitary fibrous tumor, thigh**  
T-Y9100, M-03070

**Case 3:**

**Pancreatic endocrine neoplasm, low grade**  
T-59000, M-80103

**Case 4:**

**Mixed liposarcoma with myxoid/round cell and pleomorphic components, thigh**  
T-Y9100, M-88523

**Case 5:**

**Intramuscular lipoma, thigh**  
T-Y9100, M-88560

**Case 6:**

**Metastatic high grade glioma, scalp**  
T-Y0160, M-93803

**Case 7:**

**Luteinized thecoma, ovary**  
T-87000, M-86000

**Case 8:**

**Papillary carcinoma (intracystic and invasive), breast**  
T-04000, M-80503

**Case 9:**

**Malignant neoplasm, favor undifferentiated carcinoma, lung**  
T-28000, M-80003

**Case 10:**

**Ganglioneuroblastoma, abdomen**  
T-Y4300, M-94903

Arcadia (Garfield Hospital) - Desmoid tumor (2)  
Bakersfield - Intra-abdominal fibromatosis  
Baldwin Park (SCPMG Baldwin Park) - Desmoid tumor (intra-abdominal fibromatosis) (1); Desmoid tumor (2)  
Bay Area - Desmoid tumor/aggressive fibromatosis (cannot rule out a myxofibrosarcoma) (4)  
Fontana (Kaiser Permanente) - Fibromatosis  
Long Beach - Desmoid tumor (8)  
Moreno Valley/Riverside - Fibromatosis  
Mountain View (El Camino Pathology Group) - Fibromatosis  
Monterey (Community Hospital of Monterey Peninsula) - Intra-abdominal desmoid  
Mountain View (El Camino Pathology Group) - Fibromatosis  
Oakland (Kaiser Permanente) - Fibromatosis (2); GIST (1)  
Orange (UCI Medical Center Residents) - Abdominal fibromatosis  
San Diego (Naval Medical Center) - Abdominal fibromatosis  
Santa Barbara (Santa Barbara Cottage Hospital) - Desmoid  
Santa Rosa - Intra-abdominal desmoid (3)  
Ventura (Unilab) - Intra-abdominal fibromatosis (2)  
Alaska (Alaska Native Medical Center) - Intra-abdominal fibromatosis (desmoid) (2); Solitary fibrous tumor (1)  
Arizona (Phoenix Memorial Hospital) - Desmoid (abdominal fibromatosis)  
Florida (Baptist Hospital) - Desmoid tumor (3); Low grade fibromyxoid sarcoma (1); Desmoid, intra-abdominal (1)  
Florida (Pathology Associates) - Solitary fibrous tumor  
Florida (Winter Haven Hospital) - Desmoid tumor  
Illinois (Great Lakes Naval Hospital) - Liposarcoma (2)  
Indiana (Fort Wayne) - Intra-abdominal desmoid tumor  
Maryland (Johns Hopkins Hospital Residents) - Mesenteric fibromatosis  
Maryland (National Naval Medical Center) - Fibromatosis (8)  
Maryland (Towson) - Intra-abdominal fibromatosis/desmoid tumor  
Maryland (University of Maryland Residents) - Solitary fibrous tumor  
Massachusetts (New England Medical Center Residents) - Fibromatosis  
Michigan (Oakwood Hospital) - Fibromatosis  
Michigan (St. Joseph Mercy Hospital) - Fibromatosis  
Missouri (Truman Medical Center) - Desmoid  
Nebraska (Creighton University School of Medicine Residents) - Solitary fibrous tumor (2); Leiomyoma of unknown malignant potential (4)  
New York (Long Island Jewish Medical Center) - Desmoid tumor  
New York (Nassau University Medical Center) - Fibromatosis, intra-abdominal region  
New York (New York Medical College) - Desmoid tumor  
New York (Stony Brook University Hospital Residents) - Desmoid fibromatosis, intra-abdominal  
North Carolina (Mountain Area) - Intra-abdominal fibromatosis (2); Fibromatosis (2)  
Pennsylvania (Allegheny General Hospital) - Intra-abdominal fibromatosis “desmoid tumor”  
Pennsylvania (Memorial Medical Center Residents) - Intra-abdominal fibromatosis/desmoid  
Pennsylvania (UPMC Pathology) - Desmoid tumor  
Puerto Rico (University of Puerto Rico) - Inflammatory pseudotumor  
Texas (ProPath Services) - Desmoid tumor (2)  
Texas (Scott & White Memorial Hospital) - Intra-abdominal fibromatosis  
West Virginia (Greenbrier Valley Medical Center) - Intra-abdominal fibromatosis  
Australia (Royal Prince Alfred Hospital) - Desmoid tumor  
Canada (Foothills Medical Center) - Desmoid  
Hong Kong (Hong Kong Baptist Hospital) - Solitary fibrous tumor  
Japan (Yamanashi Medical University) - Desmoid (3)  
Qatar (Hamad Medical Corporation) - Fibromatosis (intra-abdominal desmoid)

**DIAGNOSIS:**

Intra-abdominal fibromatosis (“desmoid tumor”), abdomen  
 T-Y4100, M-76100

## REFERENCES:

- Shekitka, KM, Richards RC, Rogers SW and Gardner Ej. Spontaneous Mesenteric Fibromatosis in Gardner's Syndrome. *Cancer* 1981; 47(3):597-601.
- Burke AP, Sobin LH, Shekikit KM, et al. Intra-Abdominal Fibromatosis. A Pathologic Analysis of 130 Tumors with Comparison of Clinical Subgroups. *Am J Surg Pathol* 1990; 14(4):335-341.
- Jones JT, Jagelman DG, Fazio VW, et al. Desmoid Tumors in Familial Polyposis Coli. *Ann Surg* 1986; 204(1):94-97.

## Case No. 2, Accession No. 29523

November 2002

Arcadia (Garfield Hospital) - Solitary fibrous tumor

Bakersfield - Neurofibroma

Baldwin Park (SCPMG Baldwin Park) - Angiofibroblastoma (3)

Bay Area - Solitary fibrous tumor (4)

Fontana (Kaiser Permanente) - Collagenous fibroma

Long Beach - Schwannoma (8)

Moreno Valley/Riverside - Tendon sheath fibroma

Mountain View (El Camino Pathology Group) - Low grade fibromyxoid sarcoma

Monterey (Community Hospital of Monterey Peninsula) - Neurofibroma

Mountain View (El Camino Pathology Group) - Low grade fibromyxoid sarcoma

Oakland (Kaiser Permanente) - Solitary fibrous tumor (2); Neurofibroma (1)

Orange (UCI Medical Center Residents) - Collagenous fibroma, thigh

San Diego (Naval Medical Center) - Hemangiopericytoma (19); Solitary fibrous tumor (1)

Santa Barbara (Santa Barbara Cottage Hospital) - Schwannoma

Santa Rosa - Vascular leiomyoma vs. fibromatosis (1); Extra-abdominal desmoid (2)

Ventura (Unilab) - Extra-abdominal fibromatosis (2)

Alaska (Alaska Native Medical Center) - Hemangiopericytoma (2); Proliferative fasciitis (1)

Arizona (Phoenix Memorial Hospital) - Extra-abdominal fibromatosis

Florida (Baptist Hospital) - Spindle cell neoplasia consistent with mild atypia, rule out neural origin (would do S-100 immunoperoxidase) (1); Extra-abdominal fibromatosis (1); Intramuscular fibromatosis (1); Low grade fibromyxoid sarcoma (1); Desmoid (1)

Florida (Pathology Associates) - Schwannoma

Florida (Winter Haven Hospital) - Extra-abdominal desmoid

Illinois (Great Lakes Naval Hospital) - Massive soft tissue neurofibroma (2)

Indiana (Fort Wayne) - Solitary fibrous tumor, right thigh

Maryland (Johns Hopkins Hospital Residents) - Solitary fibrous tumor

Maryland (National Naval Medical Center) - Neurofibroma (8)

Maryland (Towson) - Favor solitary fibrous tumor, differential could include neurofibroma, would perform CD34 and S-100

Maryland (University of Maryland Residents) - Neurofibroma

Massachusetts (New England Medical Center Residents) - Neurofibroma

Michigan (Oakwood Hospital) - Solitary fibrous tumor

Michigan (St. Joseph Mercy Hospital) - Schwannoma

Missouri (Truman Medical Center) - Hemangiopericytoma

Nebraska (Creighton University School of Medicine Residents) - Extra-abdominal fibromatosis

New York (Long Island Jewish Medical Center) - Solitary fibrous tumor

New York (Nassau University Medical Center) - Peripheral nerve sheath tumor (neurofibroma), thigh

New York (New York Medical College) - Angiofibroma vs. low grade fibromyxosarcoma

New York (Stony Brook University Hospital Residents) - Solitary fibrous tumor

North Carolina (Mountain Area) - Solitary fibrous tumor (4)

Pennsylvania (Allegheny General Hospital) - Low grade fibromyxoid sarcoma

Pennsylvania (Memorial Medical Center Residents) - Solitary fibrous tumor/hemangiopericytoma

Pennsylvania (UPMC Pathology) - Malignant peripheral nerve sheath tumor

Puerto Rico (University of Puerto Rico) - Fibromatosis/leiomyoma

Texas (ProPath Services) - Leiomyoma of deep tissue (1); Leiomyoma (1)

Texas (Scott & White Memorial Hospital) - Extra-abdominal desmoid vs. solitary fibrous tumor

West Virginia (Greenbrier Valley Medical Center) - Fibrohistiocytoma

Australia (Royal Prince Alfred Hospital) - Low grade fibromyxoid sarcoma vs. solitary fibrous tumor (CD34 to differentiate)

Canada (Foothills Medical Center) - Solitary fibrous tumor  
Hong Kong (Hong Kong Baptist Hospital) - Hemangiopericytoma  
Japan (Yamanashi Medical University) - Extra-abdominal fibromatosis (2); Neurofibroma (1)  
Qatar (Hamad Medical Corporation) - Solitary fibrous tumor

#### **DIAGNOSIS:**

Solitary fibrous tumor, thigh  
T-Y9100, M-03070

Consultation: Sharon Weiss, M.D., Emory University: "Solitary fibrous tumor".

#### **REFERENCES:**

Hasegawa T, Hirose T, Seki K, et al. Solitary Fibrous Tumor of Soft Tissue. An Immunohistochemical and Ultrastructural Study. *Am J Clin Pathol* 1996; 106(3):325-331.  
Goodlad JR and Fletcher CD. Solitary Fibrous Tumour Arising in Unusual Sites. Analysis of a Series. *Histopathol* 1991; 19(6):515-522.  
Deshmukh NS, Mangham DC, Warfield AT, et al. Solitary Fibrous Tumour of the Thyroid Gland. *J Laryngol Otol* 2001 115(11):940-942.  
Miracco C, de Santi MM, Pacenti L, et al. Telomerase Activity, Ki-67, Cyclin D1 and A Expression, and Apoptosis in Solitary Fibrous Tumors. Additional Features of a Predictable Course? *Pathol Res Pract* 2001; 197(7):475-481.  
Clayton AC, Salomao DR, Keeney GL, et al. Solitary Fibrous Tumor. A Study of Cytologic Features of Six Cases Diagnosed by Fine-Needle Aspiration. *Diagn Cytopathol* 2001; 25(3):172-176.

#### **Case No. 3, Accession No. 29522**

**November 2002**

Arcadia (Garfield Hospital) - Carcinoid, malignant (2)  
Bakersfield - Islet cell tumor/carcinoid tumor  
Baldwin Park (SCPMG Baldwin Park) - Islet cell tumor (3)  
Bay Area - Neuroendocrine, islet cell tumor (uncertain biologic behavior) (4)  
Fontana (Kaiser Permanente) - Islet cell tumor  
Long Beach - Endocrine carcinoma (8)  
Moreno Valley/Riverside - Pancreatic endocrine tumor  
Mountain View (El Camino Pathology Group) - Islet cell tumor (neuroendocrine carcinoma)  
Monterey (Community Hospital of Monterey Peninsula) - Islet cell tumor/moderately differentiated endocrine tumor  
Mountain View (El Camino Pathology Group) - Islet cell tumor (neuroendocrine carcinoma)  
Oakland (Kaiser Permanente) - Pancreatic endocrine tumor (3)  
Orange (UCI Medical Center Residents) - Islet cell tumor, pancreas  
San Diego (Naval Medical Center) - Pancreatic endocrine neoplasm  
Santa Barbara (Santa Barbara Cottage Hospital) - Pancreatic endocrine tumor  
Santa Rosa - Malignant neuroendocrine tumor of pancreas (2); Pancreatic endocrine neoplasm (islet cell tumor) (1)  
Ventura (Unilab) - VIP-OMA (2)  
Alaska (Alaska Native Medical Center) - Pancreatic endocrine tumor  
Arizona (Phoenix Memorial Hospital) - Neuroendocrine carcinoma, pancreas  
Florida (Baptist Hospital) - Islet cell tumor (4); Pancreatic endocrine neoplasm (1)  
Florida (Pathology Associates) - Neuroendocrine tumor, carcinoid  
Florida (Winter Haven Hospital) - Pancreatic neuroendocrine carcinoma  
Illinois (Great Lakes Naval Hospital) - Pancreatic endocrine neoplasm (2)  
Indiana (Fort Wayne) - Islet cell carcinoma (neuroendocrine carcinoma), pancreas  
Maryland (Johns Hopkins Hospital Residents) - Neuroendocrine  
Maryland (National Naval Medical Center) - Pancreatic endocrine neoplasm (8)  
Maryland (Towson) - Pancreatic endocrine neoplasm vs. acinar cell carcinoma, would perform lipase and trypsin immunostains  
Maryland (University of Maryland Residents) - Islet cell carcinoma  
Massachusetts (New England Medical Center Residents) - Pancreatic endocrine tumor  
Michigan (Oakwood Hospital) - Pancreatic endocrine neoplasm  
Michigan (St. Joseph Mercy Hospital) - Islet cell tumor  
Missouri (Truman Medical Center) - Glucagonoma  
Nebraska (Creighton University School of Medicine Residents) - Islet cell tumor  
New York (Long Island Jewish Medical Center) - Islet cell tumor (uncertain malignant potential)

New York (Nassau University Medical Center) - Pancreatic neuroendocrine tumor, pancreas  
New York (New York Medical College) - Pancreatic endocrine tumor  
New York (Stony Brook University Hospital Residents) - Islet cell tumor, well-differentiated endocrine carcinoma  
North Carolina (Mountain Area) - Neuroendocrine carcinoma (2); Islet cell tumor (neuroendocrine tumor) (1); Pancreatic endocrine neoplasm (1)  
Pennsylvania (Allegheny General Hospital) - Pancreatic endocrine carcinoma, well-differentiated  
Pennsylvania (Memorial Medical Center Residents) - Pancreatic endocrine neoplasm  
Pennsylvania (UPMC Pathology) - Endocrine neoplasm  
Puerto Rico (University of Puerto Rico) - Endocrine tumor  
Texas (ProPath Services) - Pancreatic endocrine tumor (carcinoid type) (2)  
Texas (Scott & White Memorial Hospital) - Pancreatic neuroendocrine tumor  
West Virginia (Greenbrier Valley Medical Center) - Pancreatic endocrine adenocarcinoma  
Australia (Royal Prince Alfred Hospital) - Ductal adenocarcinoma  
Canada (Foothills Medical Center) - Pancreatic endocrine neoplasm  
Hong Kong (Hong Kong Baptist Hospital) - Pancreatic endocrine tumor (islet cell tumor)  
Japan (Yamanashi Medical University) - Malignant islet cell tumor (3)  
Qatar (Hamad Medical Corporation) - Neuroendocrine tumor, borderline category

### **DIAGNOSIS:**

Pancreatic endocrine neoplasm, low grade  
 T-59000, M-80103

### **REFERENCES:**

Mukai K, Grotting JC, Greider MH, et al. Retrospective Study of 77 Pancreatic Endocrine Tumors Using Immunoperoxidase Method. *Am J Surg Pathol* 1982; 6(5):387-399.  
 Mukada T and Yamada S. Dysplasia and Carcinoma In-Situ of the Endocrine Pancreas. *Tohoku J Exp Med* 1982; 137(2):115-124.  
 Perren A, Komminoth P, Saremasiani P, et al. Mutation and Expression Analyses Reveal Differential Subcellular Compartmentalization of PTEN in Endocrine Pancreatic Tumors Compared to Normal Islet Cells. *Am J Pathol* 2000; 157(4):1097-1103.  
 De Lellis RA. The Hereditary Forms of Pancreatic Neuroendocrine Tumors. *Adv Anat Pathol* 1999; 6(3):149-153.  
 Eubanks PJ, Sawicki MP, Samara GJ, Wan YJ, et al. Pancreatic Endocrine Tumors with Loss of Heterozygosity at the Multiple Endocrine Neoplasia Type I Locus. *Am J Surg* 1997; 173(6):518-520.

**Case No. 4, Accession No. 29454**

**November 2002**

Arcadia (Garfield Hospital) - Myxoid liposarcoma (2)  
Bakersfield - Myxoid liposarcoma  
Baldwin Park (SCPMG Baldwin Park) - Myxoid liposarcoma (3)  
Bay Area - Liposarcoma, myxoid type (4)  
Fontana (Kaiser Permanente) - Myxoid and round cell liposarcoma  
Long Beach - Myxoid liposarcoma (8)  
Moreno Valley/Riverside - Myxoid liposarcoma  
Mountain View (El Camino Pathology Group) - Myxoid liposarcoma  
Monterey (Community Hospital of Monterey Peninsula) - Myxofibrosarcoma  
Mountain View (El Camino Pathology Group) - Myxoid liposarcoma  
Oakland (Kaiser Permanente) - Pleomorphic high grade sarcoma, MFH, possibly a de-differentiated liposarcoma (3)  
Orange (UCI Medical Center Residents) - Round cell liposarcoma, thigh  
San Diego (Naval Medical Center) - Pleomorphic liposarcoma (18); Leiomyosarcoma (1); High grade poorly differentiated sarcoma (1)  
Santa Barbara (Santa Barbara Cottage Hospital) - Liposarcoma myxoid with round cell areas  
Santa Rosa - Leiomyosarcoma vs. malignant fibrohistiocytic tumor (1); Sarcoma, NOS (1); Malignant fibrous histiocytoma (1)  
Ventura (Unilab) - Malignant fibrous histiocytoma (2)  
Alaska (Alaska Native Medical Center) - Rhabdomyosarcoma (2); MFH (malignant fibrohistiocytoma/storiform, pleomorphic) (1)  
Arizona (Phoenix Memorial Hospital) - Malignant fibrous histiocytoma, storiform/pleomorphic type  
Florida (Baptist Hospital) - Sarcoma, intermediate grade (need immunos) (1); Myxoid liposarcoma (1); Myxoid malignant fibrous histiocytoma (3)  
Florida (Pathology Associates) - Malignant fibrous histiocytoma

Florida (Winter Haven Hospital) - Embryonal rhabdomyosarcoma  
Illinois (Great Lakes Naval Hospital) - Myxoid liposarcoma (2)  
Indiana (Fort Wayne) - Myxofibrosarcoma, thigh  
Maryland (Johns Hopkins Hospital Residents) - Myxoid malignant fibrous histiocytoma  
Maryland (National Naval Medical Center) - Myxoid liposarcoma (8)  
Maryland (Towson) - Favor myxoid malignant fibrous histiocytoma  
Maryland (University of Maryland Residents) - Liposarcoma, myxoid, focally dedifferentiated  
Massachusetts (New England Medical Center Residents) - Myxoid liposarcoma  
Michigan (Oakwood Hospital) - Sarcoma, favor malignant fibrous histiocytoma  
Michigan (St. Joseph Mercy Hospital) - Dedifferentiated liposarcoma (2); Malignant fibrous histiocytoma (1)  
Missouri (Truman Medical Center) - Pleomorphic liposarcoma  
Nebraska (Creighton University School of Medicine Residents) - Peripheral nerve sheath tumor  
New York (Long Island Jewish Medical Center) - Myxoid liposarcoma  
New York (Nassau University Medical Center) - Well-differentiated liposarcoma, thigh  
New York (New York Medical College) - Pleomorphic sarcoma favor liposarcoma  
New York (Stony Brook University Hospital Residents) - Rhabdomyosarcoma, pleomorphic type  
North Carolina (Mountain Area) - Rhabdomyosarcoma (2); Rhabdomyosarcoma/myxofibrosarcoma (1); Myxofibrosarcoma (1)  
Pennsylvania (Allegheny General Hospital) - Myxoid malignant fibrous histiocytoma  
Pennsylvania (Memorial Medical Center Residents) - Round cell liposarcoma  
Pennsylvania (UPMC Pathology) - Cellular (round cell ) myxoid liposarcoma  
Puerto Rico (University of Puerto Rico) - Myxoid liposarcoma  
Texas (ProPath Services) - Poorly differentiated myxoid liposarcoma (1); Myxoid liposarcoma (1)  
Texas (Scott & White Memorial Hospital) - Dedifferentiated liposarcoma  
West Virginia (Greenbrier Valley Medical Center) - Malignant fibrous histiocytoma  
Australia (Royal Prince Alfred Hospital) - Spindle cell sarcoma, favor liposarcoma (myxoid and round cell areas)  
Canada (Foothills Medical Center) - Myxoid malignant fibrous histiocytoma  
Hong Kong (Hong Kong Baptist Hospital) - Peripheral nerve sheath tumor  
Japan (Yamanashi Medical University) - Liposarcoma (1); Malignant fibrous histiocytoma (1); Malignant schwannoma (1)  
Qatar (Hamad Medical Corporation) - Malignant peripheral nerve sheath tumor

## **DIAGNOSIS:**

Mixed liposarcoma with myxoid/round cell and pleomorphic components, thigh

Director's Note: Not every slide showed the full spectrum. (drc)

T-Y9100, M-88523

## **REFERENCES:**

- Aman P, Ron D, Mandahl N, et al. Rearrangement of the Transcription Factor Gene CHOP in Myxoid Liposarcoma with t(12;16)(q13; p11) *Genes Chromosomes Cancer* 1992; 5:278-285.
- Hashimoto H, Daimaru Y and Enjoji M. S-100 Protein Distribution in Liposarcoma a Immunoperoxidase Study with Special Reference to the Distinction of Liposarcoma from Myxoid Malignant Fibrous Histiocytoma. *Virchows Arch (A) Pathol Anat Histopathol* 1984; 405(1):1-10.
- Mentzel T and Fletcher CD. Dedifferentiated myxoid liposarcoma. A Clinicopathological Study Suggesting a Closer Relationship Between Myxoid and Well-Differentiated Liposarcoma. *Histopathol* 1997; 30(5):457-463.
- Hasegawa T, Seki K, Hasegawa F, et al. Dedifferentiated Liposarcoma of Retroperitoneum and Mesentery. Varied Growth Patterns and Histological Grades. A Clinicopathologic Study of 32 Cases. *Hum Pathol* 2000; 31(6):717-727.
- Dei Tos AP. Liposarcoma. New Entities and Evolving Concepts. *Ann Diagn Pathol* 2000; 4(4):252-266.

**Case No. 5, Accession No. 29553**

**November 2002**

Arcadia (Garfield Hospital) - Benign rhabdo-lipoma (2)  
Bakersfield - Intramuscular lipoma  
Baldwin Park (SCPMG Baldwin Park) - Intramuscular lipoma (3)  
Bay Area - Intramuscular lipoma (consider rhabdomyoma) (4)  
Fontana (Kaiser Permanente) - Intramuscular lipoma  
Long Beach - Intramuscular lipoma (8)  
Moreno Valley/Riverside - Intramuscular lipoma (Note: a small isolated hypercellular tumor, probably contaminated fragment seen)  
Mountain View (El Camino Pathology Group) - Intramuscular lipoma  
Monterey (Community Hospital of Monterey Peninsula) - Intramuscular lipoma

Mountain View (El Camino Pathology Group) - Intramuscular lipoma  
Oakland (Kaiser Permanente) - Intramuscular lipoma (3)  
Orange (UCI Medical Center Residents) - Intramuscular lipoma, thigh  
San Diego (Naval Medical Center) - Intramuscular lipoma  
Santa Barbara (Santa Barbara Cottage Hospital) - Intramuscular lipoma  
Santa Rosa - Intramuscular lipoma (3)  
Ventura (Unilab) - Intramuscular lipoma (2)  
Alaska (Alaska Native Medical Center) - Intramuscular lipoma  
Arizona (Phoenix Memorial Hospital) - Intramuscular lipoma  
Florida (Baptist Hospital) - Intramuscular lipoma (5)  
Florida (Pathology Associates) - Lipoma, intramuscular  
Florida (Winter Haven Hospital) - Infiltrating lipoma  
Illinois (Great Lakes Naval Hospital) - Intramuscular lipoma (2)  
Indiana (Fort Wayne) - Recurrent intramuscular angioliipoma, right thigh  
Maryland (Johns Hopkins Hospital Residents) - Intramuscular lipoma  
Maryland (National Naval Medical Center) - Intramuscular lipoma (8)  
Maryland (Towson) - Intramuscular lipoma  
Maryland (University of Maryland Residents) - Intramuscular lipoma  
Massachusetts (New England Medical Center Residents) - Intramuscular lipoma  
Michigan (Oakwood Hospital) - Intramuscular lipoma  
Michigan (St. Joseph Mercy Hospital) - Intramuscular lipoma, recurrent  
Missouri (Truman Medical Center) - Intramuscular lipoma  
Nebraska (Creighton University School of Medicine Residents) - Intramuscular lipoma  
New York (Long Island Jewish Medical Center) - Intramuscular lipoma  
New York (Nassau University Medical Center) - Intramuscular lipoma, thigh  
New York (New York Medical College) - Intramuscular lipoma  
New York (Stony Brook University Hospital Residents) - Intramuscular lipoma  
North Carolina (Mountain Area) - Intramuscular lipoma (4)  
Pennsylvania (Allegheny General Hospital) - Intramuscular lipoma  
Pennsylvania (Memorial Medical Center Residents) - Intramuscular hemangioma  
Pennsylvania (UPMC Pathology) - Intramuscular lipoma  
Puerto Rico (University of Puerto Rico) - Intramuscular lipoma  
Texas (ProPath Services) - Intramuscular lipoma (2)  
Texas (Scott & White Memorial Hospital) - Intramuscular lipoma  
West Virginia (Greenbrier Valley Medical Center) - Intra/Intermuscular lipoma  
Australia (Royal Prince Alfred Hospital) - Intramuscular lipoma  
Canada (Foothills Medical Center) - Intramuscular lipoma  
Hong Kong (Hong Kong Baptist Hospital) - Intramuscular lipoma  
Japan (Yamanashi Medical University) - Intramuscular lipoma (3)  
Qatar (Hamad Medical Corporation) - Intramuscular lipoma

#### **DIAGNOSIS:**

Intramuscular lipoma, thigh  
 T-Y9100, M-88560

#### **REFERENCES:**

Echenique-Elizondo M. Intermuscular Lipoma. *J Am Coll Surg* 2001; 193(4):452.  
 Kindblom LG, Angervall L, Stener B, et al. Intermuscular and Intramuscular Lipomas and Hibernomas. A Clinical, Roentgenologic, Histologic and Prognostic Study of 46 Cases. *Cancer* 1974; 33(3):754-762.  
 Fletcher CDM and Martin-Bates E. Intramuscular and Intermuscular Lipoma Neglected Diagnoses. *Histopathol* 1988; 12(3):275-287.  
 Meis JM and Enzinger FM. Myolipoma of Soft Tissue. *Am J Surg Pathol* 1991; 15(2):121-125.

**Case No. 6, Accession No. 29554**

**November 2002**

Arcadia (Garfield Hospital) - Malignant ependymoma (2)  
Bakersfield - Glioblastoma with epithelial metaplasia



Baldwin Park (SCPMG Baldwin Park) - Glioblastoma multiforme, metastatic (1); Permeative neuroectodermal tumor (2)  
Bay Area - Olfactory neuroblastoma vs. primitive neuroglial tumor (3)  
Fontana (Kaiser Permanente) - Glial tumor  
Long Beach - Recurrent CNS tumor (meningioma?)  
Moreno Valley/Riverside - Merkel cell carcinoma  
Mountain View (El Camino Pathology Group) - Permeative neuroectodermal tumor  
Monterey (Community Hospital of Monterey Peninsula) - Oligodendroblastoma vs. chordoma vs. astrocytoma vs. ependymoma  
Mountain View (El Camino Pathology Group) - Permeative neuroectodermal tumor  
Oakland (Kaiser Permanente) - Oligodendroglioma (3)  
Orange (UCI Medical Center Residents) - Ependymoma, scalp  
San Diego (Naval Medical Center) - Anaplastic oligodendroblastoma (10); Anaplastic ependymoma (8); Glioblastoma multiforme (2)  
Santa Barbara (Santa Barbara Cottage Hospital) - Malignant, metastatic carcinoma  
Santa Rosa - High grade astrocytoma (2) Malignant neoplasm invading scalp (1)  
Ventura (Unilab) - Anaplastic astrocytoma (2)  
Alaska (Alaska Native Medical Center) - Malignant oligodendroglioma/glioblastoma multiforme, grade IV  
Arizona (Phoenix Memorial Hospital) - Metastatic carcinoma (unknown primary)  
Florida (Baptist Hospital) - Gliosarcoma (5)  
Florida (Pathology Associates) - Anaplastic oligodendroglioma  
Florida (Winter Haven Hospital) - Metastatic glioma  
Illinois (Great Lakes Naval Hospital) - Oligodendroglioma (2)  
Indiana (Fort Wayne) - Recurrent anaplastic glioma with invasion of scalp  
Maryland (Johns Hopkins Hospital Residents) - High grade glioma  
Maryland (National Naval Medical Center) - Primitive neuroectodermal tumor (PNET) (6); Merkel cell carcinoma (2)  
Maryland (Towson) - Recurrent high grade glial neoplasm, possibly small cell glioblastoma?  
Maryland (University of Maryland Residents) - Gliosarcoma  
Massachusetts (New England Medical Center Residents) - Metastatic anaplastic ependymoma  
Michigan (Oakwood Hospital) - Malignant, favor clear cell meningioma  
Michigan (St. Joseph Mercy Hospital) - Glioma, uncertain type  
Missouri (Truman Medical Center) - Ependymoma, high grade  
Nebraska (Creighton University School of Medicine Residents) - Mesenchymal chondrosarcoma  
New York (Long Island Jewish Medical Center) - Ependymoma, metastatic, clear cell type  
New York (Nassau University Medical Center) - Anaplastic ependymoma, scalp  
New York (New York Medical College) - Recurrent glioma vs. PNET  
New York (Stony Brook University Hospital Residents) - Oligodendroglioma, extraneural metastasis  
North Carolina (Mountain Area) - Ependymoma (4)  
Pennsylvania (Allegheny General Hospital) - Glioblastoma multiforme  
Pennsylvania (Memorial Medical Center Residents) - Teratocarcinoma  
Pennsylvania (UPMC Pathology) - Metastatic anaplastic ependymoma  
Puerto Rico (University of Puerto Rico) - Primitive neuroectodermal tumor (PNET)  
Texas (ProPath Services) - Poorly differentiated neuroglial tumor (2)  
Texas (Scott & White Memorial Hospital) - Gliosarcoma  
West Virginia (Greenbrier Valley Medical Center) - Oligodendroglioma  
Australia (Royal Prince Alfred Hospital) - Ependymoblastoma  
Canada (Foothills Medical Center) - Ependymoma  
Hong Kong (Hong Kong Baptist Hospital) - Ependymoma  
Japan (Yamanashi Medical University) - Glioblastoma with epithelial metaplasia (2)  
Qatar (Hamad Medical Corporation) - Deposit from recurrent high grade glioma, anaplastic oligodendroglioma

## **DIAGNOSIS:**

Metastatic high grade glioma, scalp

Director's Note: The patient's brain tumor was a glioblastoma multiforme. (drc)

T-Y0160, M-93803

## **REFERENCES:**

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 Burger PC and Vollmer RT. Histologic Factors of Prognostic Significance in the Glioblastoma Multiforme. *Cancer* 1980; 46(5):1179-1186.

Brat DJ, Castellano SA, Kaur B, et al. Pathology of Disease. Genetic and Biologic Progression in Astrocytomas and Their Relation to Angiogenic Dysregulation. *Advan Anat Pathol* 2002; 9(1):24-30.

Lopez-Rios F, Alberti N, Ballestin C, et al. Extracranial Metastasis of a Glioma. Diagnosis by Fine-Needle Aspiration and Immunocytochemistry. *Diagn Cytopathol* 2000; 23(1):43-45.

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Park CC, Hartmann C, Folkerth R, et al. Systemic Metastasis in Glioblastoma May Represent the Emergence of Neoplastic Subclones. *J Neuropathol Exp Neurol* 2000; 59(12):1044-1050.

## Case No. 7, Accession No. 29452

November 2002

Arcadia (Garfield Hospital) - Fibrothecoma (2)

Bakersfield - Stromal tumor, thecoma

Baldwin Park (SCPMG Baldwin Park) - Ovarian fibrothecoma (3)

Bay Area - Sclerosing stromal tumor (2); Thecoma (1)

Fontana (Kaiser Permanente) - Fibrothecoma

Long Beach - Luteinized thecoma (8)

Moreno Valley/Riverside - Sclerosing stromal tumor, ovary

Mountain View (El Camino Pathology Group) - Fibrothecoma

Monterey (Community Hospital of Monterey Peninsula) - Thecoma

Mountain View (El Camino Pathology Group) - Fibrothecoma

Oakland (Kaiser Permanente) - Luteinized thecoma (3)

Orange (UCI Medical Center Residents) - Fibrothecoma, ovary

San Diego (Naval Medical Center) - Sclerosing stromal tumor

Santa Barbara (Santa Barbara Cottage Hospital) - Thecoma

Santa Rosa - Sclerosing stromal tumor of ovary (2); Thecoma (1)

Ventura (Unilab) - Thecoma (2)

Alaska (Alaska Native Medical Center) - Luteinized thecoma

Arizona (Phoenix Memorial Hospital) - Cellular thecoma

Florida (Baptist Hospital) - Cortical stromal tumor, thecoma (1); Sclerosing stromal tumor (1); Thecoma (2); Signet ring stromal tumor (1)

Florida (Pathology Associates) - Juvenile granulosa cell tumor

Florida (Winter Haven Hospital) - Thecoma, fibroma

Illinois (Great Lakes Naval Hospital) - Sex cord stromal tumor (2)

Indiana (Fort Wayne) - Fibrothecoma, ovary

Maryland (Johns Hopkins Hospital Residents) - Sclerosing stromal tumor

Maryland (National Naval Medical Center) - Sclerosing stromal cell tumor (8)

Maryland (Towson) - Sclerosing stromal tumor of the ovary

Maryland (University of Maryland Residents) - Thecoma (rule out sclerosing stromal tumor in additional sections)

Massachusetts (New England Medical Center Residents) - Sclerosing stromal tumor

Michigan (Oakwood Hospital) - Thecoma

Michigan (St. Joseph Mercy Hospital) - Thecoma

Missouri (Truman Medical Center) - Sclerosing stromal tumor

Nebraska (Creighton University School of Medicine Residents) - Sclerosing stromal tumor

New York (Long Island Jewish Medical Center) - Fibrothecoma

New York (Nassau University Medical Center) - Fibrothecoma (thecoma), ovary

New York (New York Medical College) - Sclerosing stromal tumor

New York (Stony Brook University Hospital Residents) - Fibrothecoma

North Carolina (Mountain Area) - Sclerosing stromal tumor (4)

Pennsylvania (Allegheny General Hospital) - Ovarian thecoma

Pennsylvania (Memorial Medical Center Residents) - Sclerosing stromal tumor

Pennsylvania (UPMC Pathology) - Sclerosing stromal tumor

Puerto Rico (University of Puerto Rico) - Steroid cell tumor

Texas (ProPath Services) - Thecoma (2)

Texas (Scott & White Memorial Hospital) - Thecoma

West Virginia (Greenbrier Valley Medical Center) - Ovarian edema  
Australia (Royal Prince Alfred Hospital) - Sclerosing Sertoli cell tumor  
Canada (Foothills Medical Center) - Thecoma  
Hong Kong (Hong Kong Baptist Hospital) - Sex cord stroma tumor  
Japan (Yamanashi Medical University) - Thecoma (1); Luteinized thecoma (1); Sclerosing stromal tumor (1)  
Qatar (Hamad Medical Corporation) - Sclerosing stromal tumor (6); Fibroma/thecoma (2)

#### **DIAGNOSIS:**

Luteinized thecoma, ovary  
T-87000, M-86000

#### **REFERENCES:**

Piver M, Williams LJ and Marcuse PM. Influence of Luteal Cysts on Menstrual Function. *Obstet Gynecol* 1970; 35(5):740-751.  
Stevens ML and Plotka ED. Functional Lutein Cyst in a Postmenopausal Woman. *Obstet Gynecol* 1977; 50(1):27s-29s.  
Nishida T, Ushijima K, Watanabe J, et al. Sclerosing Peritonitis Associated with Luteinized Thecoma of the Ovary. *Gynecol Oncol* 1999; 73(1):167-169.  
Liang SB, Sonobe H, Taguchi T, et al. Tetrasomy 12 in Ovarian Tumors of Thecoma-Fibroma Group. A Fluorescence In-Situ Hybridization Analysis Using Paraffin Sections. *Pathol Int* 2001; 51(1):37-42.

#### **Case No. 8, Accession No. 29545**

**November 2002**

Arcadia (Garfield Hospital) - Low grade papillary, secretory carcinoma with apocrine changes (2)  
Bakersfield - Papillary carcinoma  
Baldwin Park (SCPMG Baldwin Park) - Intracystic papillary carcinoma (3)  
Bay Area - Infiltrating papillary carcinoma (3)  
Fontana (Kaiser Permanente) - Ductal carcinoma  
Long Beach - Papillary carcinoma (8)  
Moreno Valley/Riverside - Papillary carcinoma (invasive), breast  
Mountain View (El Camino Pathology Group) - Intracystic papillary carcinoma  
Monterey (Community Hospital of Monterey Peninsula) - Intracystic papillary carcinoma  
Mountain View (El Camino Pathology Group) - Intracystic papillary carcinoma  
Oakland (Kaiser Permanente) - Papillary carcinoma (3)  
Orange (UCI Medical Center Residents) - Papillary carcinoma, breast  
San Diego (Naval Medical Center) - Invasive papillary carcinoma  
Santa Barbara (Santa Barbara Cottage Hospital) - Papillary intracystic carcinoma  
Santa Rosa - Papillary carcinoma of breast (1); Papillary carcinoma (2)  
Ventura (Unilab) - Intraductal papilloma (2)  
Alaska (Alaska Native Medical Center) - Papillary carcinoma, solid and cribriform  
Arizona (Phoenix Memorial Hospital) - Intracystic papillary carcinoma  
Florida (Baptist Hospital) - Ductal carcinoma consistent with neuroendocrine features (3); Papillary and solid carcinoma of the breast (1); Solid papillary carcinoma (1)  
Florida (Pathology Associates) - Papillary carcinoma, at least in-situ  
Florida (Winter Haven Hospital) - Secretory carcinoma  
Illinois (Great Lakes Naval Hospital) - Infiltrative ductal carcinoma with neuroendocrine differentiation (2)  
Indiana (Fort Wayne) - Ductal carcinoma with endocrine-like features, left female breast  
Maryland (Johns Hopkins Hospital Residents) - Solid papillary carcinoma  
Maryland (National Naval Medical Center) - Papillary carcinoma (8)  
Maryland (Towson) - Solid papillary carcinoma of the breast  
Maryland (University of Maryland Residents) - Intracystic papillary carcinoma, not invasive  
Massachusetts (New England Medical Center Residents) - Invasive papillary carcinoma  
Michigan (Oakwood Hospital) - Intracystic papillary carcinoma  
Michigan (St. Joseph Mercy Hospital) - Papillary carcinoma  
Missouri (Truman Medical Center) - Papillary carcinoma  
Nebraska (Creighton University School of Medicine Residents) - Invasive papillary ductal carcinoma  
New York (Long Island Jewish Medical Center) - Papillary carcinoma of breast  
New York (Nassau University Medical Center) - Infiltrating papillary carcinoma, breast  
New York (New York Medical College) - Papillary carcinoma

New York (Stony Brook University Hospital Residents) - Intracystic papillary carcinoma  
North Carolina (Mountain Area) - Infiltrating ductal carcinoma, well-differentiated (1); Papillary carcinoma (3)  
Pennsylvania (Allegheny General Hospital) - Papillary carcinoma of the breast  
Pennsylvania (Memorial Medical Center Residents) - Carcinoma with neuroendocrine differentiation  
Pennsylvania (UPMC Pathology) - Intracystic papillary carcinoma  
Puerto Rico (University of Puerto Rico) - Carcinoid tumor  
Texas (ProPath Services) - Papillary adenocarcinoma (2)  
Texas (Scott & White Memorial Hospital) - Papillary carcinoma  
West Virginia (Greenbrier Valley Medical Center) - Papillary adenocarcinoma  
Australia (Royal Prince Alfred Hospital) - Gruber-Franz tumor  
Canada (Foothills Medical Center) - Carcinoma with neuroendocrine features  
Hong Kong (Hong Kong Baptist Hospital) - Endocrine DCIS  
Japan (Yamanashi Medical University) - Invasive ductal carcinoma (1); Papillotubular carcinoma (1); Papillary carcinoma (1)  
Qatar (Hamad Medical Corporation) - Mammary carcinoma with neuroendocrine features, however, metastatic carcinoid should be ruled out.

### **DIAGNOSIS:**

Papillary carcinoma (intracystic and invasive), breast  
 T-04000, M-80503

### **REFERENCES:**

Nathanson SD, Wachna L, Gilman D, et al. Pathways of Lymphatic Drainage from the Breast. *Ann Surg Oncol* 2001; 8(10):837-843.  
 Cox CE, Salud CJ, Cantor A, et al. Learning Curves for Breast Cancer Sentinel Lymph Node Mapping Based on Surgical Volume Analysis. *J Am Coll Surg* 2001; 193(6):593-600.  
 Purcell CA and Norris HJ. Intraductal Proliferations of the Breast. A Review of Histologic Criteria for Atypical Intraductal Hyperplasia and Ductal Carcinoma In-Situ, Including Apocrine and Papillary Lesions. *Ann Diagn Pathol* 1998; 2(2):135-145.  
 Nayar R, Frias DV, Boutsos EP, et al. Cytologic Differential Diagnosis of Papillary Pattern in Breast Aspirates. Correlation with Histology. *Ann Diagn Pathol* 2001; 5(1):34-42.  
 Saddik M, Lai R, Medeiros LJ, et al. Differential Expression of Cyclin D1 in Breast Papillary Carcinomas and Benign Papillomas. An Immunohistochemical Study. *Arch Pathol Lab Med* 1999; 123(2):152-156.

## **Case No. 9, Accession No. 29572**

**November 2002**

Arcadia (Garfield Hospital) - Poorly differentiated carcinoma, non-small cell (2)  
Bakersfield - Mesothelioma  
Baldwin Park (SCPMG Baldwin Park) - ? Synovial sarcoma or meningioma (1); Meningioma vs. carcinoma (1); Metastatic carcinoma (1)  
Bay Area - Spindle cell carcinoma (consider synovial sarcoma) (3)  
Fontana (Kaiser Permanente) - Desmoplastic mesothelioma  
Long Beach - Pseudosarcomatous spindle cell carcinoma (8)  
Moreno Valley/Riverside - Sclerosing hemangioma, lung  
Mountain View (El Camino Pathology Group) - Sarcomatoid carcinoma  
Monterey (Community Hospital of Monterey Peninsula) - Desmoplastic carcinoma vs. thymoma vs. localized fibrous tumor  
Mountain View (El Camino Pathology Group) - Sarcomatoid carcinoma  
Oakland (Kaiser Permanente) - Sclerosing hemangioma (3)  
Orange (UCI Medical Center Residents) - Sclerosing hemangioma, lung  
San Diego (Naval Medical Center) - Inflammatory pseudotumor (16); Sclerosing hemangioma (4)  
Santa Barbara (Santa Barbara Cottage Hospital) - Sclerosing hemangioma  
Santa Rosa - Mesothelioma, NOS (3)  
Ventura (Unilab) - Large cell carcinoma (2)  
Alaska (Alaska Native Medical Center) - Pleomorphic adenoma (mixed tumor) (2); Epithelioid hemangioendothelioma (1)  
Arizona (Phoenix Memorial Hospital) - Large cell undifferentiated/spindle cell carcinoma  
Florida (Baptist Hospital) - Anaplastic carcinoma with spindled (pseudosarcomatous pattern) (1); Synovial sarcoma (2); Sarcomatoid carcinoma (1); Spindle cell carcinoma (1)  
Florida (Pathology Associates) - Carcinoma, NOS  
Florida (Winter Haven Hospital) - Sclerosing hemangioma

Illinois (Great Lakes Naval Hospital) - Sclerosing hemangioma (2)  
Indiana (Fort Wayne) - Poorly differentiated carcinoma of lung with amyloid-like stroma  
Maryland (Johns Hopkins Hospital Residents) - Sclerosing hemangioma  
Maryland (National Naval Medical Center) - Sclerosing hemangioma (5); Mesothelioma (3)  
Maryland (Towson) - So-called sclerosing hemangioma of lung  
Maryland (University of Maryland Residents) - Sclerosing hemangioma  
Massachusetts (New England Medical Center Residents) - Sclerosing hemangioma  
Michigan (Oakwood Hospital) - Meningioma?  
Michigan (St. Joseph Mercy Hospital) - Sarcomatoid carcinoma (2); Mesothelioma (1)  
Missouri (Truman Medical Center) - Mesothelioma  
Nebraska (Creighton University School of Medicine Residents) - Sclerosing hemangioma (4); Synovial sarcoma (4)  
New York (Long Island Jewish Medical Center) - Sclerosing hemangioma  
New York (Nassau University Medical Center) - Sarcomatoid carcinoma, lung  
New York (New York Medical College) - Synovial sarcoma vs. pleural fibrous tumor  
New York (Stony Brook University Hospital Residents) - Synovial sarcoma  
North Carolina (Mountain Area) - Sclerosing hemangioma (4)  
Pennsylvania (Allegheny General Hospital) - Sarcomatoid carcinoma vs. monophasic synovial sarcoma  
Pennsylvania (Memorial Medical Center Residents) - Sclerosing hemangioma  
Pennsylvania (UPMC Pathology) - Sclerosing hemangioma  
Puerto Rico (University of Puerto Rico) - Small cell carcinoma/amyloid?  
Texas (ProPath Services) - Sclerosing hemangioma (2)  
Texas (Scott & White Memorial Hospital) - Sclerosing hemangioma  
West Virginia (Greenbrier Valley Medical Center) - Carcinoid tumor  
Australia (Royal Prince Alfred Hospital) - Mesothelioma  
Canada (Foothills Medical Center) - Sarcomatoid carcinoma  
Hong Kong (Hong Kong Baptist Hospital) - Large cell undifferentiated carcinoma  
Japan (Yamanashi Medical University) - Sclerosing hemangioma (3)  
Qatar (Hamad Medical Corporation) - Mesothelioma

#### **DIAGNOSIS:**

Malignant neoplasm, favor undifferentiated carcinoma, lung  
 T-28000, M-80003

Consultation: Pulmonary Section, AFIP, "Malignant spindle cell neoplasm, favor pleomorphic carcinoma."

#### **REFERENCES:**

Toyama M, Uezu K, Nakamoto A, et al. Diagnostic – Dilemmas in Oncology Case 1. Lung Cancer with Miliary Brain Metastases Undetected by Imaging Studies. *J Clin Oncol* 2001; 19(23):4340-4341.  
 Razzuk MA, Urschel HG, Race GJ, Jr., et al. Carcinosarcoma of the Lung. Report of Two Cases and Review of the Literature. *J Thorac Cardiovasc Surg* 1971; 61(4):541-546.  
 Nakajima M, Kasai T, Hashimoto, et al. Sarcomatous Carcinoma of the Lung. A Clinicopathologic Study of 37 Cases. *Cancer* 1999; 86(4):608-616.  
 Wakely P. Pulmonary Spindle Cell Lesions. Correlation of Aspiration Cytopathology and Histopathology. *Ann Diagn Pathol* 2001; 5(4):216-228.

**Case No. 10, Accession No. 29526**

**November 2002**

Arcadia (Garfield Hospital) - Rhabdomyosarcoma (2)  
Bakersfield - Pleomorphic liposarcoma  
Baldwin Park (SCPMG Baldwin Park) - Infarcted neuroblastoma (2); Neuroblastoma (2)  
Bay Area - Sarcoma, NOS (consider rhabdomyosarcoma, rhabdoid tumor) (3)  
Fontana (Kaiser Permanente) - Ganglioneuroblastoma  
Long Beach - Neuroblastoma (maturing) (8)  
Moreno Valley/Riverside - Ganglioneuroblastoma  
Mountain View (El Camino Pathology Group) - Ganglioneuroblastoma  
Monterey (Community Hospital of Monterey Peninsula) - Ganglioneuroblastoma  
Mountain View (El Camino Pathology Group) - Ganglioneuroblastoma  
Oakland (Kaiser Permanente) - Malignant triton tumor

Orange (UCI Medical Center Residents) - Stroma-rich differentiating ganglioneuroblastoma, abdomen  
San Diego (Naval Medical Center) - Stroma poor, differentiating neuroblastoma  
Santa Barbara (Santa Barbara Cottage Hospital) - Ganglioneuroblastoma  
Santa Rosa - Pleomorphic rhabdomyosarcoma (2); Rhabdomyosarcoma (1)  
Ventura (Unilab) - Ganglioneuroblastoma (2)  
Alaska (Alaska Native Medical Center) - Ganglioneuroblastoma  
Arizona (Phoenix Memorial Hospital) - Ganglioneuroblastoma  
Florida (Baptist Hospital) - Osteogenic sarcoma (1); Telangiectatic osteosarcoma (2); Embryonal rhabdomyosarcoma (pleomorphic variant) (1); Osteogenic sarcoma telangiectatic (1)  
Florida (Pathology Associates) - Rhabdomyosarcoma  
Florida (Winter Haven Hospital) - Neuroblastoma  
Illinois (Great Lakes Naval Hospital) - Embryonal rhabdomyosarcoma (2)  
Indiana (Fort Wayne) - Ganglioneuroblastoma, abdomen  
Maryland (Johns Hopkins Hospital Residents) - Ganglioneuroblastoma  
Maryland (National Naval Medical Center) - Ganglioneuroblastoma (8)  
Maryland (Towson) - Ganglioneuroblastoma/stromal rich neuroblastoma  
Maryland (University of Maryland Residents) - Pheochromocytoma  
Massachusetts (New England Medical Center Residents) - Ganglioneuroblastoma, nodular  
Michigan (Oakwood Hospital) - Rhabdoid tumor  
Michigan (St. Joseph Mercy Hospital) - Ganglioneuroblastoma  
Missouri (Truman Medical Center) - Ganglioneuroblastoma  
Nebraska (Creighton University School of Medicine Residents) - Ganglioneuroblastoma, Shimada subtype "stroma-rich, nodular"  
New York (Long Island Jewish Medical Center) - Neuroblastoma  
New York (Nassau University Medical Center) - Pleomorphic rhabdomyosarcoma, abdomen  
New York (New York Medical College) - Neuroblastoma  
New York (Stony Brook University Hospital Residents) - Ganglioneuroblastoma  
North Carolina (Mountain Area) - Ganglioneuroblastoma (3); Neuroblastoma (1)  
Pennsylvania (Allegheny General Hospital) - Rhabdomyosarcoma  
Pennsylvania (Memorial Medical Center Residents) - Ganglioneuroblastoma  
Pennsylvania (UPMC Pathology) - Triton tumor (ectomesenchymoma) rhabdomyosarcoma ganglioneuroma  
Puerto Rico (University of Puerto Rico) - Pleomorphic rhabdomyosarcoma  
Texas (ProPath Services) - Ganglioneuroblastoma (2)  
Texas (Scott & White Memorial Hospital) - Ganglioneuroblastoma  
West Virginia (Greenbrier Valley Medical Center) - Rhabdomyosarcoma, NOS  
Australia (Royal Prince Alfred Hospital) - Rhabdomyosarcoma (embryonal)  
Canada (Foothills Medical Center) - Differentiating neuroblastoma  
Hong Kong (Hong Kong Baptist Hospital) - Pleomorphic rhabdomyosarcoma  
Japan (Yamanashi Medical University) - Ganglioneuroblastoma (1); Rhabdomyosarcoma (1); Anaplastic seminoma (1)  
Qatar (Hamad Medical Corporation) - Composite pheochromocytoma and neuroblastoma

## **DIAGNOSIS:**

Ganglioneuroblastoma, abdomen  
 T-Y4300, M-94903

## **REFERENCES:**

- Yunis EJ, Agostini RM, Walpusk JA and Hubbard JD. Glycogen in Neuroblastomas A Light and Electron-Microscopic Study of 240 Cases. *Am J Surg Pathol* 1979; 3(4):313-323.  
 Wirtsberger GH, Becker H, Ziervogel K and Hofler H. Diagnostic Immunohistochemistry of Neuroblastic Tumors. *Am J Surg Pathol* 1992; 16(1):49-57.  
 Umehara S, Nakagawa A, Mattay KK, et al. Histopathology Defines Prognostic Subsets of Ganglioneuroblastoma, Nodular. *Cancer* 2000; 89(5):1150-1161.  
 Shimada H, Ambros IM, Dehner LP, et al. Terminology and Morphologic Criteria of Neuroblastic Tumors. Recommendations by the International Neuroblastoma Pathology Committee. *Cancer* 1999; 86(2):349-363.  
 Shimada H, Ambros IM, Dehner LP, et al. The International Neuroblastoma Pathology Classification (The Shimada System). *Cancer* 1999; 86(2):364-372.  
 Shimada H, Umehara S, Monobe Y, et al. International Neuroblastoma Pathology Classification for Prognostic Evaluation of Patients with Peripheral Neuroblastic Tumors. A Report from the Children's Cancer Group. *Cancer* 2001; 92(9):2451-2461.