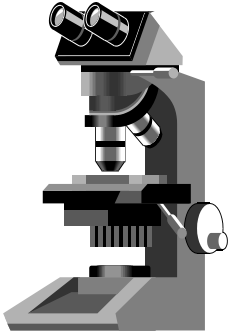


CALIFORNIA
TUMOR TISSUE REGISTRY



GENERAL PATHOLOGY

Minutes – Subscription A

October, 1999

SUGGESTED READING (General Topics from Recent Literature):

- The Emerging Molecular Genetics of Sarcoma Translocations. Ladanyi M. *Diag Molecular Pathol* 1995; 4(3):162-173.
- Tumor Suppressor Genes. A Short Review. Yeo CJ. *Surgery* 1999; 125(4):363-366.
- Treatment and Local Control of Primary Extremity Soft Tissue Sarcomas. Karakousis CP and Driscoll DL. *Journal Surg Oncol* 1999, 71:155-161.
- Stereotactic Brain Biopsies Specimen Preparation and Evaluation. Burger PC and Nelson JS. *Arch Pathol Lab Med* 1997; 121(5):477-480.

California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
Loma Linda University School of Medicine
11021 Campus Avenue, AH 335
Loma Linda, California 92350
(909) 558-4788
FAX: (909) 558-0188
E-mail: cttr@linkline.com

Bakersfield (San Joaquin Community Hospital) - Fibroblastic meningioma
Orange (UCI Medical Center Residents) - Pilocytic astrocytoma
Ventura (Unilab) - Pilocytic astrocytoma (2)
Santa Rosa - Meningioma (2)
Mountain View (El Camino Hospital) - Meningioma, fibrous type
Long Beach - Meningioma
Santa Barbara (Cottage Hospital) - Meningioma
Oakland (Kaiser) - Meningioma, fibroblastic (2)
San Diego (Naval Medical Center) - Fibrous meningioma (13)
Monterey (Community Hospital of Monterey Peninsula) - Meningioma
Nebraska (Creighton) - Meningioma, fibroblast type
Wisconsin (Madison) - Fibrous meningioma
Texas (Texas Technical Medical Hlth Ctr) - Meningioma, aggressive
Florida (Ocala) - Meningioma
Michigan (St. Joseph Mercy Hospital) - Meningioma (5)
Michigan (Oakwood) - Meningioma
Ohio (Dayton) - Meningioma
Ohio (McCullough-Hyde Memorial Hospital) - Meningioma
North Carolina (Asherville) - Meningioma (2)
Louisiana (Shreveport) - Meningioma
Maryland (Woodbine) - Meningioma (2)
Pennsylvania (Lehigh Valley Hospital) - Fibrous meningioma (1); Meningioma, fibroblastic (1); Meningioma, transitional type (with characteristic whorls of tumor cells) (1); Meningioma (2)
Pennsylvania (Allegheny General Hospital) - Meningioma
Pennsylvania (Conemaugh Memorial Hospital) - Meningioma
New York (Northport) - Meningioma, transitional type
New York (SUNY Stony Brook University Hospital) - Meningioma, fibroblastic type (9)
New Jersey (Overlook Hospital) - Meningioma (2)
Massachusetts (Berkshire Medical Center) - Meningioma
Connecticut (University Connecticut Hlt Ctr) - Fibroblastic meningioma
Canada (Foothill Hospital) - Pilocytic astrocytoma
Canada (VGH Anatomic Pathology) - Meningioma with increased mitotic activity
Saudi Arabia (King Khalid University Hospital) - Fibroblastic meningioma
Japan (Shimda City) - Fibrous meningioma
Japan (Kurashiki) - Meningioma, fibrous
North Ireland (Altnageluin) - Fibroblastic meningioma

DIAGNOSIS:

Fibroblastic Meningioma

TY0111, M95320

REFERENCES:

- de la Monte SN. Histologic Features Predicting Recurrence of Meningiomas Following Subtotal Resection. *Am J Surg Pathol* 1986; 10(12):836-843.
- Kepes JJ. Presidential Address. The Histopathology of Meningiomas. A Reflection of Origins and Expected Behavior? *J of Neuropathol and Exp Neuropath* 1986; 45:95-107.
- Meis JM. Meningiomas. An Immunohistochemical Study of 50 Cases. *Arch Pathol Lab Med* 1986; 110(10):934-937.

Bakersfield (San Joaquin Community Hospital) - Glioblastoma multiforme
Orange (UCI Medical Center Residents) - Anaplastic oligodendroglioma
Ventura (Unilab) - Oligodendroglioma (2)
Santa Rosa - Oligodendroglioma, anaplastic (2)
Mountain View (El Camino Hospital) - Anaplastic oligodendroglioma
Long Beach - High-grade malignant astrocytoma (glioblastoma multiforme) (6)
Santa Barbara (Cottage Hospital) - Anaplastic oligodendroglioma
Oakland (Kaiser) - Glioblastoma multiforme (2)
San Diego (Naval Medical Center) - Glioblastoma multiforme (13)
Monterey (Community Hospital of Monterey Peninsula) - Oligodendroglioma
Nebraska (Creighton) - Oligodendroglioma
Wisconsin (Madison) - Mixed oligoastrocytoma, grade 4
Texas (Texas Technical Medical Hlth Ctr) -
Florida (Ocala) - Glioblastoma multiforme
Michigan (St. Joseph Mercy Hospital) - Glioblastoma multiforme (5)
Michigan (Oakwood) - Necrotic neoplasm, consistent with high grade glioma
Ohio (Dayton) - Grade 4 fibrillary astrocytoma (Glioblastoma multiforme "GBM")
Ohio (McCullough-Hyde Memorial Hospital) - Anaplastic oligodendroglioma
North Carolina (Asherville) - Glioblastoma multiforme (1); Glioblastoma, possibly arising in oligodendroglioma (1)
Louisiana (Shreveport) - Glioblastoma multiforme
Maryland (Woodbine) - Astrocytoma (2)
Pennsylvania (Lehigh Valley Hospital) - Anaplastic astrocytoma grade IV/III consistent with areas of oligodendroglioma (1); Glioblastoma multiforme with areas of oligodendrocyte-like features (1); Glioblastoma multiforme (highly malignant astrocytoma, grades III to IV?) (1); Glioblastoma multiforme (2)
Pennsylvania (Allegheny General Hospital) - Anaplastic oligodendroglioma with areas of glioblastoma multiforme
Pennsylvania (Conemaugh Memorial Hospital) - Glioblastoma multiforme
New York (Northport) - Glioblastoma multiforme
New York (SUNY Stony Brook University Hospital) - Malignant oligodendroglioma (9)
New Jersey (Overlook Hospital) - Glioblastoma multiforme (with mixed astro-oligodendroglioma components) (2)
Massachusetts (Berkshire Medical Center) - Glioma grade III/III with astrocytic and oligodendrocytic differentiation
Connecticut (University Connecticut Hlt Ctr) - Anaplastic oligoastrocytoma vs glioblastoma multiforme
Canada (Foothill Hospital) - Mixed malignant glioma (oligodendrogliomatous and astrocytic glioblastoma multiforme-like components)
Canada (VGH Anatomic Pathology) - Anaplastic oligodendroglioma
Saudi Arabia (King Khalid University Hospital) - Glioblastoma multiforme arising from oligodendroglioma
Japan (Shimda City) - Anaplastic oligodendroglioma
Japan (Kurashiki) - Glioblastoma multiforme
North Ireland (Altnageluin) - Glioblastoma multiforme

DIAGNOSIS:**Glioblastoma Multiforme**

TX2400, M94403

Consultation: Boleslaw Liwnicz, M.D., Ph.D., Neuropathologist: "Glioblastoma Multiforme."

REFERENCES:

- Burger PC and Green SB. Patient Age, Histologic Features and Length of Survival of Patients with Glioblastoma. *Cancer* 1987; 59(9):1617-1625.
- Burger PC. The Use of the Monoclonal Antibody Ki-67 in the Identification of Proliferating Cells. Application to Surgical Neuropathology. *Am J Surg Pathol* 1986; 10(9):611-617.
- Giangaspero F and Burger PC. Correlations Between Cytologic Composition and Biological Behavior in Glioblastoma Multiforme. A Postmortem Study of 50 Cases. *Cancer* 1983; 52 (12):2320-2333.
- Schmidt EE. CDKN2 (p16/MTS1) Gene Deletion or CDK4 Amplification Occurs in the Majority of Glioblastoma. *Cancer Res* 1994; 54(24):6321-6324.

Bakersfield (San Joaquin Community Hospital) - Giant cell tumor of tendon sheath
Orange (UCI Medical Center Residents) - Giant cell tumor of tendon sheath
Ventura (Unilab) - Giant cell tumor of tendon sheath (2)
Santa Rosa - Giant cell tumor of tendon sheath (2)
Mountain View (El Camino Hospital) - Giant cell tumor of tendon sheath (nodular tenosynovitis)
Long Beach Giant cell tumor (6)
Santa Barbara (Cottage Hospital) - Chondromyxoid fibroma
Oakland (Kaiser) - Giant cell tumor (of tendon sheath) (2)
San Diego (Naval Medical Center) - Giant cell reparative granuloma (13)
Monterey (Community Hospital of Monterey Peninsula) - Giant cell tumor tendon sheath
Nebraska (Creighton) - Giant cell tumor of tendon sheath
Wisconsin (Madison) - Giant cell reparative granuloma, small bone, hand
Texas (Texas Technical Medical Hlth Ctr) -
Florida (Ocala) - Tenosynovial giant cell tumor
Michigan (St. Joseph Mercy Hospital) - Giant cell reparative granuloma (5)
Michigan (Oakwood) - Giant cell tumor of tendon sheath
Ohio (Dayton) - Aneurysmal bone cyst
Ohio (McCullough Hyde Memorial Hospital) - Giant cell tumor of bone
North Carolina (Asheville) - Pigmented villonodular tenosynovitis (giant cell tumor of tendon sheath) (2)
Louisiana (Shreveport) - R/O parathyroid hyperplasia, D/D giant cell tumor
Maryland (Woodbine) - Giant cell tumor (2)
Pennsylvania (Lehigh Valley Hospital) - Giant cell tumor of bone (1); Tenosynovial giant cell tumor (1); Malignant giant cell tumor with numerous hemosiderin deposits and invasion into adjacent fibrocollagenous C.T.) (1); Giant cell tumor of tendon sheath (2)
Pennsylvania (Allegheny General Hospital) - Aggressive giant cell tumor of soft tissue
Pennsylvania (Conemaugh Memorial Hospital) - Giant cell tumor
New York (Northport) - Giant cell tumor of tendon sheath
New York (SUNY Stony Brook University Hospital) - Giant cell tumor of tendon sheath (9)
New Jersey (Overlook Hospital) - Nodular tenosynovitis (2)
Massachusetts (Pittsfield) - Giant cell tumor of tendon sheath
Connecticut (University Connecticut Hlth Ctr) - Giant cell tumor of tendon sheath
Canada (Foothill Hospital) - Chondroblastoma (vs. Giant cell tumor, etc.)
Canada (VGH Anatomic Pathology) - Giant cell tumor of tendon sheath
Saudi Arabia (King Khalid University Hospital) - Giant cell tumor of bone
Japan (Shimda City) - Tendosynovial giant cell tumor
Japan (Kurashiki) - Nodular tenosynovitis
North Ireland (Altnageluin) - Giant cell tumor of tendon sheath

DIAGNOSIS:

Giant Cell Tumor, probably of osseous origin
T11540, M69210

Directors Note: Radiographs showed extensive involvement of the metacarpal bone. Most study set slides were of the region of soft tissue involvement. Origin in tenosynovial tissue cannot be ruled out.

REFERENCES:

Gupta S, et al. Giant Cell Tumour of the First Metacarpal Bone. *Hand* 1980; 12(3):288-292.
McGeoch CM, et al. Osteoclastoma of the First Metacarpal. *J Hand Surg (Br)* 1985; 10(1):129-130.
Carlow SB. Metacarpal Resection with a Contoured Iliac Bone Graft and Silicone Rubber Implant for Metacarpal Giant Cell Tumor. A Case Report. *J Hand Surg (Am)* 1985; 10(2):275-278.

Bakersfield (San Joaquin Community Hospital) - Leiomyosarcoma
Orange (UCI Medical Center Residents) - Leiomyosarcoma
Ventura (Unilab) - Leiomyosarcoma (2)
Santa Rosa - Leiomyosarcoma (2)
Mountain View (El Camino Hospital) - Leiomyosarcoma
Long Beach - Leiomyosarcoma (6)
Santa Barbara (Cottage Hospital) - Leiomyosarcoma
Oakland (Kaiser) - Leiomyosarcoma (2)
San Diego (Naval Medical Center) - Leiomyosarcoma (13)
Monterey (Community Hospital of Monterey Peninsula) - Leiomyosarcoma
Nebraska (Creighton) - Leiomyosarcoma
Wisconsin (Madison) - Primary sarcoma of greater saphenous vein (LMS)
Texas (Texas Technical Medical Hlth Ctr) - Leiomyosarcoma
Florida (Ocala) - Leiomyosarcoma
Michigan (St. Joseph Mercy Hospital) - Leiomyosarcoma, arising in vein (5)
Michigan (Oakwood Hospital) - Intravenous leiomyosarcoma
Michigan (Dayton) - Leiomyosarcoma
Ohio (McCullough-Hyde Memorial Hospital) - Leiomyosarcoma (venous)
North Carolina (Asheville) - Leiomyosarcoma (2)
Louisiana (Shreveport) - Leiomyosarcoma
Maryland (Woodbine) - Symplastic leiomyoma (1); Pleomorphic leiomyosarcoma (1)
Pennsylvania (Lehigh Valley Hospital) - Leiomyosarcoma (1); Symplastic leiomyoma (1); Fibroliposarcoma (of thigh) or high grade (highly malignant) fibroliposarcoma of mixed fibroblastic and lipoblastic type (1); Leiomyosarcoma (2)
Pennsylvania (Allegheny General Hospital) - Leiomyosarcoma
Pennsylvania (Conemaugh Memorial Hospital) - Leiomyosarcoma
New York (Northport) - Leiomyosarcoma
New York (SUNY Stony Brook University Hospital) - Leiomyosarcoma (9)
New Jersey (Overlook Hospital) - Intravascular leiomyosarcoma (2)
Massachusetts (Berkshire Medical Center) - Angioleiomyosarcoma
Connecticut (University Community Hlth Ctr) - Low grade leiomyosarcoma
Canada (Foothill Hospital) - Cellular schwannoma
Canada (VGH Anatomic Pathology) - Leiomyosarcoma
Saudi Arabia (King Khalid University Hospital) - Leiomyosarcoma in a lymph node (4); Rhabdomyosarcoma in a lymph node (2)
Japan (Shimda City) - Vascular leiomyosarcoma
Japan (Kurashiki) - Bizarre leiomyoma
North Ireland (Altnageluin) - Symplastic leiomyoma

DIAGNOSIS:

Vascular Leiomyosarcoma, Right Saphenous Vein

T49530, M88940

REFERENCES:

- Hughes S. A Case of Leiomyosarcoma of the Long Saphenous Vein. *Vasc Surg* 1973; 7(2):71-73.
Humphrey M. Leiomyosarcoma of the Saphenous Vein. A Case Report and Review of the Literature. *J Bone Joint Surg* 1987;69(2):282-286.
Khalifa AA, et al. Leiomyosarcoma of the Rectum. Report of a Case and Review of the Literature. *Dis Colon Rectum* 1986;29(6):427-432.
Saglik Y. Leiomyosarcoma of the Great Saphenous Vein. *Int Orthop* 1992; 16(2):185-187.
Jernstrom P, et al. Leiomyosarcoma of the Long Saphenous Vein. *Am J Clin Pathol* 1975; 63(1):25-31.
Kevorkian J, et al. Leiomyosarcoma of Large Arteries and Veins. *Surg* 1973; 73:390-400.

Bakersfield (San Joaquin Community Hospital) - Malignant schwannoma
Orange (UCI Medical Center Residents) - Cellular schwannoma
Ventura (Unilab) - Cellular neurilemmoma (2)
Santa Rosa - Atypical neurogenic tumor, rule out malignant peripheral nerve tumor (1); Neurofibrosarcoma
Mountain View (El Camino Hospital) - Cellular schwannoma
Long Beach - Malignant nerve sheath tumor (schwannoma) (6)
Santa Barbara (Cottage Hospital) - Cellular schwannoma
Oakland (Kaiser) - Cellular schwannoma (2)
San Diego (Naval Medical Center) - Malignant peripheral nerve sheath tumor (13)
Monterey (Community Hospital of Monterey Peninsular) - Neurofibroma
Nebraska (Creighton) - Neurofibroma
Wisconsin (Madison) - Neurofibroma, focally cellular ? neurofibromatosis
Texas (Texas Technical Medical Hlth Ctr) - Schwannoma
Florida (Ocala) - Desmoid tumor
Michigan (St. Joseph Mercy Hospital) - Malignant peripheral nerve sheath tumor (3); Neurofibroma (2)
Michigan (Oakwood Hospital) - Schwannoma
Ohio (Dayton) - Neurogenic sarcoma
Ohio (McCullough-Hyde Memorial Hospital) - Cellular schwannoma
North Carolina (Asheville) - Malignant peripheral nerve sheath tumor (2)
Louisiana (Shreveport) - Neurofibroma
Maryland (Woodbine) - Neurofibroma with focal malignant change (1); Neurofibroma (1)
Pennsylvania (Lehigh Valley Hospital) - Malignant peripheral nerve sheath tumor (2); Cellular schwannoma (1);
“Desmoid tumor” of low grade fibrosarcoma (with areas of mitotic activity) (1); Neurogenic sarcoma (1)
Pennsylvania (Allegheny General Hospital) - Neurofibroma
Pennsylvania (Conemaugh Memorial Hospital) - Schwannoma
New York (Northport) - Cellular schwannoma
New York (SUNY Stony Brook University Hospital) - Schwannoma (9)
New Jersey (Overlook Hospital) - Neurofibrosarcoma (2)
Massachusetts (Berkshire Medical Center) - Malignant peripheral nerve sheath tumor
Connecticut (University Community Hlth Ctr) - Neurofibroma with malignant potential
Canada (Foothill Hospital) - MPSNT vs. cellular schwannoma
Canada (VGH Anatomic Pathology) - Malignant peripheral nerve sheath tumor
Saudi Arabia (King Khalid University Hospital) - Malignant peripheral nerve sheath tumor
Japan (Shimda City) - Low-grade MPNST
Japan (Kurashiki) - Malignant peripheral nerve sheath tumor
North Ireland (Altnageluin) - Malignant peripheral nerve sheath tumor

DIAGNOSIS:

Low Grade Malignant Peripheral Nerve Sheath Tumor (MPNST), Shoulder
TY1220, M95603

REFERENCES:

- Saenz NC, et al. Neovascularity and Clinical Outcome in High-Grade Extremity Soft Tissue Sarcomas. *Am Surg Oncol* 1998; 5(1):48-53.
- Blair SL, et al. Multifocal Extremity Sarcoma. An Uncommon and Controversial Entity. *Ann Surg Oncol* 1998; 5(1): 37-40.
- Brooks AD, et al. Superficial Extremity Soft Tissue Sarcoma. An Analysis of Prognostic Factors. *Am Surg Oncol* 1998; 5(1):41-47.
- Daimaru Y, et al. Malignant Peripheral Nerve Sheath Tumors (Malignant Schwannomas). An Immunohistochemical Study of 29 Cases. *Am J Surg Pathol* 1985; 9:434-444.
- Ducatman BS, et al. Malignant Peripheral Nerve Sheath Tumor. A Clinicopathologic Study of 120 Cases. *Cancer* 1986; 57:2006-20021.

Bakersfield (San Joaquin Community Hospital) - Struma ovarii
Orange (UCI Medical Center Residents) - Sertoli cell tumor
Ventura (Unilab) - Struma ovarii (2)
Santa Rosa - Cystic teratoma with Sertoli cell tumor (2)
Mountain View (El Camino Hospital) - Struma ovarii
Long Beach - Struma ovarii (6)
Santa Barbara (Cottage Hospital) - Mature cystic teratoma with struma
Oakland (Kaiser) - Struma ovarii (2)
San Diego (Naval Medical Center) - Struma ovarii (10); Strumal carcinoid (3)
Monterey (Community Hospital of Monterey Peninsula) - Struma ovarii
Nebraska (Creighton) - Sertoli cell tumor
Wisconsin (Madison) - Sertoli-Leydig cell tumor vs. struma ovarii
Texas (Texas Technical Medical Hlth Ctr) - Struma ovarii
Florida (Ocala) - Sertoli-Leydig cell tumor
Michigan (St. Joseph Mercy Hospital) - Strumal carcinoid (5)
Michigan (Oakwood Hospital) - Struma ovarii
Ohio (Dayton) - Struma ovarii
Ohio (McCullough-Hyde Memorial Hospital) - Struma ovarii
North Carolina (Asheville) - Struma ovarii (2)
Louisiana (Shreveport) - Sertoli-leydig cell tumor
Maryland (Woodbine) - Strumal carcinoid (2)
Pennsylvania (Lehigh Valley Hospital) - Struma ovarii (2); Struma ovarii adjacent to benign thyroid adenoma (1); Struma ovarii with carcinoid (2)
Pennsylvania (Allegheny General Hospital) - Struma ovarii
Pennsylvania (Conemaugh Memorial Hospital) - Stromal ovarii
New York (Northport) - Struma ovarii with clear cell features
New York (SUNY Stony Brook University Hospital) - Struma ovarii (9)
New Jersey (Overlook Hospital) - Struma ovarii (2)
Massachusetts (Berkshire Medical Center) - Tumor of Wolffian origin (1); vs. Sertoli cell tumor (7)
Connecticut (University Community Hlth Ctr) - Struma ovarii with follicular neoplasm, probably variant of papillary carcinoma vs. struma carcinoma
Canada (Foothill Hospital) - Struma ovarii (with granulosa ? all tumors)
Canada (VGH Anatomic Pathology) - Struma ovarii
Saudi Arabia (King Khalid University Hospital) - Sertoli-leydig cell tumor of ovary, well-differentiated
Japan (Shimda City) - Strumal carcinoid tumor
Japan (Kurashiki) - Struma ovarii
North Ireland (Altnageluin) - Struma ovarii

DIAGNOSIS:

Struma Ovarii

T87000,M85901

REFERENCES:

Dohke M. Struma Ovarii. MR Findings. *J Comput Assist Tomogr* 1997; 21(2):265-267.
Caruso PA, et al. An Intense Clinicopathologic Study of 305 Teratomas of the Ovary. *Cancer* 1971; 27:343-348.
Farrell, DJ, et al. Hashimoto's Disease in a Benign Cystic Teratoma of the Ovary. *Histopathol* 1991; 19:283-284.
Szyfelbein WM, et al. Cystic Struma Ovarii A Frequently Unrecognized Tumor. A Report of 20 Cases. *Am J Surg Pathol* 1994; 18:785-788.

Bakersfield (San Joaquin Community Hospital) - Myelolipoma
Orange (UCI Medical Center Residents) - Myelolipoma
Ventura (Unilab) - Adrenal myelolipoma (2)
Santa Rosa - Adrenal myelolipoma (1); Myeloid metaplasia (myelolipoma)
Mountain View (El Camino Hospital) - Myelolipoma
Long Beach - Myelolipoma (6)
Santa Barbara (Cottage Hospital) - Myelolipoma
Oakland (Kaiser) - Myelolipoma (2)
San Diego (Naval Medical Center) - Myelolipoma (13)
Monterey (Community Hospital of Monterey Peninsula) - Extramedullary hematopoiesis
Nebraska (Creighton) - Myelolipoma
Wisconsin (Madison) - Myelolipoma
Texas (Texas Technical Medical Hlth Ctr) - Myelolipoma
Florida (Ocala) - Myelolipoma
Michigan (St. Joseph Mercy Hospital) - Myelolipoma (5)
Michigan (Oakwood Hospital) - Myelolipoma
Ohio (Dayton) - Myelolipoma
Ohio (McCullough-Hyde Memorial Hospital) - Myelolipoma
North Carolina (Asheville) - Myelolipoma (2)
Louisiana (Shreveport) - Myelolipoma
Maryland (Woodbine) - Myelolipoma (2)
Pennsylvania (Lehigh Valley Hospital) - Adrenal myelolipoma (4); Carcinoma of adrenal gland (1)
Pennsylvania (Allegheny General Hospital) - Myelolipoma
Pennsylvania (Conemaugh Memorial Hospital) - Myelolipoma
New York (Northport) - Myelolipoma
New York (SUNY Stony Brook University Hospital) - Myelolipoma (9)
New Jersey (Overlook Hospital) - Adrenal myelolipoma (2)
Massachusetts (Berkshire Medical Center) - Myelolipoma
Connecticut (University Community Hlth Ctr) - Myelolipoma
Canada (Foothill Hospital) - Granulocytic sarcoma
Canada (VGH Anatomic Pathology) - Myelolipoma
Saudi Arabia (King Khalid University Hospital) - Myelolipoma of adrenal gland
Japan (Shimda City) - Myelolipoma
Japan (Kurashiki) - Myelolipoma
North Ireland (Altnageluin) - Myelolipoma adrenal gland

DIAGNOSIS:

Myelolipoma, Adrenal Gland

T93000, M88700

REFERENCES:

Boudreaux D, Waisman J, Skinner DG, et al. Giant Adrenal Myelolipoma and Testicular Interstitial Cell Tumor in a Man with Congenital 21-Hydroxylase Deficiency. *Am J Surg Pathol* 1979; 3(2):109-123.
Goetz S, et al. Hematopoietic Elements Associated with Adrenal Glands. A Study of the Spectrum of Change in Nine Cases. *Arch Pathol Lab Med* 1994; 118(9):895-896.
Hunter SB, et al. Extraadrenal Myelolipoma. A Report of Two Cases. *Am J Clin Pathol* 1992; 97:402.
Noble MJ, et al. Myelolipoma. An Unusual Surgical Lesion of the Adrenal Gland. *Cancer* 1982; 49:952.

Bakersfield (San Joaquin Community Hospital) - Pheochromocytoma
Orange (UCI Medical Center Residents) - Pheochromocytoma
Ventura (Unilab) - Pheochromocytoma (2)
Santa Rosa - Pheochromocytoma (2)
Mountain View (El Camino Hospital) - Pheochromocytoma
Long Beach - Composite pheochromocytoma with ganglioneuroma (6)
Santa Barbara (Cottage Hospital) - Pheochromocytoma
Oakland (Kaiser) - Pheochromocytoma (2)
San Diego (Naval Medical Center) - Pheochromocytoma (13)
Monterey (Community Hospital of Monterey Peninsula) - Pheochromocytoma
Nebraska (Creighton) - Pheochromocytoma
Wisconsin (Madison) - Paraganglioma – Ganglia enlarged? Ganglioneuroma
Texas (Texas Technical Medical Hlth Ctr) - Pheochromocytoma
Florida (Ocala) - Paraganglioma
Michigan (St. Joseph Mercy Hospital) - Pheochromocytoma (5)
Michigan (Oakwood Hospital) - Paraganglioma (pheochromocytoma)
Ohio (Dayton) - Pheochromocytoma
Ohio (McCullough-Hyde Memorial Hospital) - Pheochromocytoma
North Carolina (Asheville) - Pheochromocytoma (2)
Louisiana (Shreveport) - Pheochromocytoma
Maryland (Woodbine) - Paraganglioma (2)
Pennsylvania (Lehigh Valley Hospital) - Pheochromocytoma (5)
Pennsylvania (Allegheny General Hospital) - Pheochromocytoma
Pennsylvania (Conemaugh Memorial Hospital) - Pheochromocytoma
New York (Northport) - Composite pheochromocytoma ganglioneuroma
New York (SUNY Stony Brook University Hospital) - Pheochromocytoma with vascular invasion (9)
New Jersey (Overlook Hospital) - Pheochromocytoma (2)
Massachusetts (Berkshire Medical Center) - Pheochromocytoma
Connecticut (University Community Hlth Ctr) - Ganglioneuroblastoma
Canada (Foothill Hospital) - Pheochromocytoma (? Composite phео – some more immature areas apparent)
Canada (VGH Anatomic Pathology) - Pheochromocytoma
Saudi Arabia (King Khalid University Hospital) - Pheochromocytoma with ganglioneuroma (composite tumor of adrenal gland)
Japan (Shimda City) - Pheochromocytoma
Japan (Kurashiki) - Pheochromocytoma
North Ireland (Altnageluin) - Pheochromocytoma

DIAGNOSIS:

Pheochromocytoma, Left Adrenal Gland

T93000,M87000

REFERENCES:

- Epelbaum J, et al. Molecular and Pharmacological Characterization of Somatostatin Receptor Subtypes in Adrenal, Extraadrenal Malignant Pheochromocytomas. *J Clin Endocrinol of Metab* 1995; 80(6):1837-1844.
Kitamura K, et al. Adrenomedullin. A Novel Hypotensive Peptide Isolated from Human Pheochromocytoma. *Biochem Biophys Res Commun* 1993; 192(2):553-560.
Vargas HI. Laparoscopic Adrenalectomy. A New Standard of Care. *Urol* 1997; 49(5):673-678.
Samaan NA. Diagnosis, Localization and Management of Pheochromocytoma. Pitfalls and Follow-Up in 41 Patients. *Cancer* 1988; 2451-2460.
Medeiros LJ, et al. Adrenal Pheochromocytoma. A Clinicopathologic Review of 60 Cases. *Hum Pathol* 1985; 16:580-589.

Bakersfield (San Joaquin Community Hospital) - Carotid body paraganglioma
Orange (UCI Medical Center Residents) - Medullary carcinoma of thyroid
Ventura (Unilab) - Carotid body paraganglioma (2)
Santa Rosa - Carotid body tumor (2)
Mountain View (El Camino Hospital) - Medullary carcinoma
Long Beach - Medullary carcinoma (6)
Santa Barbara (Cottage Hospital) - Medullary carcinoma
Oakland (Kaiser) - Medullary (thyroid) carcinoma (2)
San Diego (Naval Medical Center) - Medullary carcinoma (13)
Monterey (Community Hospital of Monterey Peninsula) - Medullary carcinoma, thyroid
Nebraska (Creighton) - Medullary carcinoma of thyroid
Wisconsin (Madison) - Medullary carcinoma, metastatic ? MEN II
Texas (Texas Technical Medical Hlth Ctr) - Paraganglioma
Florida (Ocala) - Medullary carcinoma
Michigan (St. Joseph Mercy Hospital) - Metastatic medullary carcinoma of thyroid (5)
Michigan (Oakwood Hospital) - Medullary thyroid carcinoma
Ohio (Dayton) - Medullary carcinoma
Ohio (McCullough-Hyde Memorial Hospital) - Carotid body paraganglioma
North Carolina (Asheville) - Medullary carcinoma of thyroid (? metastasis) (2)
Louisiana (Shreveport) - Carotid body tumor
Maryland (Woodbine) - Medullary carcinoma of thyroid (2)
Pennsylvania (Lehigh Valley Hospital) - Medullary carcinoma of the thyroid (4); Paraganglioma (1)
Pennsylvania (Allegheny General Hospital) - Paraganglioma
Pennsylvania (Conemaugh Memorial Hospital) - Medullary carcinoma of thyroid
New York (Northport) - Medullary carcinoma of thyroid
New York (SUNY Stony Brook University Hospital) - Carotid body tumor/paraganglioma (9)
New Jersey (Overlook Hospital) - Metastatic medullary carcinoma (2)
Massachusetts (Berkshire Medical Center) - Medullary carcinoma of thyroid
Connecticut (University Community Hlth Ctr) - Medullary carcinoma of thyroid
Canada (Foothill Hospital) - Medullary carcinoma of thyroid, metastatic
Canada (VGH Anatomic Pathology) - Neuroendocrine carcinoma consistent with medullary thyroid carcinoma
Saudi Arabia (King Khalid University Hospital) - Medullary carcinoma of thyroid, ? metastatic
Japan (Shimda City) - Medullary thyroid carcinoma
Japan (Kurashiki) - Medullary carcinoma, metastatic
North Ireland (Altnageluin) - Medullary carcinoma

DIAGNOSIS:

Medullary Carcinoma of Thyroid, presenting as a left neck metastasis
TY0600, M85103

Follow-Up: The patient had a thyroidectomy three months following this surgery, which identified a medullary carcinoma involving the left upper lobe.

REFERENCES:

- Fuchshuber PR, et al. Medullary Carcinoma of the Thyroid. Prognostic Factors and Treatment Recommendations. *Am Surg Oncol* 1998; 5(1):81-86.
Matias-Guiu X. Ret Protooncogene Analysis in the Diagnosis of Medullary Carcinoma and Multiple Endocrine Neoplasia Type II. *Adv Anat Pathol* 1998; 5(3):196-201.
Bergholm U, et al. Clinical Characteristics in Sporadic and Familial Medullary Thyroid Carcinoma. A Nation-Wide Study of 249 Patients in Sweden from 1959 Through 1981. *Cancer* 1989; 63(6):1196-1204
Ekman ET, et al. Nuclear DNA Content and Survival in Medullary Thyroid Carcinoma. *Cancer* 1990; 65(3):511-517.

Bakersfield (San Joaquin Community Hospital) - Atypical carcinoid tumor
Orange (UCI Medical Center Residents) - Neuroendocrine carcinoma, grade 2
Ventura (Unilab) - Carcinoid (2)
Santa Rosa - Paraganglioma (2)
Mountain View (El Camino Hospital) - Carcinoid tumor
Long Beach - Paraganglioma (organ of Zuckerkandl) (6)
Santa Barbara (Cottage Hospital) - Adrenal carcinoma
Oakland (Kaiser) - Neuroendocrine carcinoma (2)
San Diego (Naval Medical Center) - Neuroendocrine neoplasm (8); Neuroendocrine carcinoma (5)
Monterey (Community Hospital of Monterey Peninsula) - Adrenocortical carcinoma
Nebraska (Creighton) - Malignant neuroendocrine tumor
Wisconsin (Madison) - Neuroendocrine carcinoma, grade 2 (atypical carcinoid tumor)
Texas (Texas Technical Medical Hlth Ctr) - Carcinoid tumor, atypical
Florida (Ocala) - Carcinoid tumor
Michigan (St. Joseph Mercy Hospital) - Carcinoid tumor (3); Islet cell tumor (2)
Michigan (Oakwood Hospital) - Acinar cell carcinoma
Ohio (Dayton) - Islet cell tumor
Ohio (McCullough-Hyde Memorial Hospital) - Carcinoid/Islet cell tumor
North Carolina (Asheville) - Neuroendocrine tumor (1); Pancreatic islet cell tumor (1)
Louisiana (Shreveport) - Carcinoid tumor vs. VIPoma
Maryland (Woodbine) - Carcinoid (1); Atypical carcinoid (1)
Pennsylvania (Lehigh Valley Hospital) - Neuroendocrine carcinoma (2); Paraganglioma (2); Carcinoid tumor of GI tract (1)
Pennsylvania (Allegheny General Hospital) - Neuroendocrine tumor of carcinoid/islet cell type
Pennsylvania (Conemaugh Memorial Hospital) - Islet cell tumor/carcinoid
New York (Northport) - Neuroendocrine carcinoma
New York (SUNY Stony Brook University Hospital) - Neuroendocrine carcinoma, predicting behavior is difficult, favor malignant (9)
New Jersey (Overlook Hospital) - Carcinoid (2)
Massachusetts (Berkshire Medical Center) - Carcinoid (4) vs. Islet cell tumor (4)
Connecticut (University Community Hlth Ctr) - Atypical carcinoid
Canada (Foothill Hospital) - Adrenocortical carcinoma (vs. renal cell carcinoma vs. HCCa)
Canada (VGH Anatomic Pathology) - Metastatic carcinoid
Saudi Arabia (King Khalid University Hospital) - Carcinoid tumor of mesentery
Japan (Shimda City) - Paraganglioma
Japan (Kurashiki) - VIPoma, possibly malignant
North Ireland (Altnageluin) - Well-differentiated neuroendocrine carcinoma

DIAGNOSIS:**Neuroendocrine Carcinoma, possibly of pancreatic origin**

T50500, M80103

Consultation: Lester D.R. Thompson, M.D. AFIP. "Malignant pancreatic endocrine tumor, abdominal mass. Lymph node, metastatic malignant tumor, consistent with pancreatic origin."

REFERENCES:

- Broder LE, et al. Pancreatic Islet Cell Carcinoma. Clinical Features of 52 Patients. *Am Intern Med* 1973; 79:101-107.
 Heitz PU, et al. Pancreatic Endocrine Tumors. *Hum Pathol* 1982; 13:263-271.
 Kimura W, et al. Clinical Pathology of Endocrine Tumors of the Pancreas. Analysis of Autopsy Cases. *Dig Dis Sc* 1991; 36:933-942.
 Kloppel G, et al. Pancreatic Endocrine Tumors in Man. *Diagnostic Histopathology of Neuroendocrine Tumors*. 1993; 91-121.
 Solcia E, et al. Pancreatic Endocrine Tumors. Non-Functioning Tumors and Tumors with Uncommon Function. *Endocrine Pathology of the Gut and Pancreas*. Boca Raton, CRC Press 1991; 105-132.