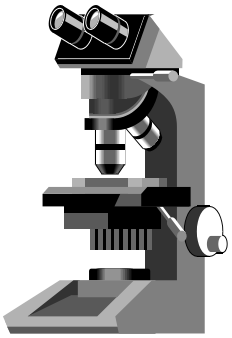
CALIFORNIA
TUMOR TISSUE REGISTRY

NEUROPATHOLOGY

Minutes – Subscription A

October, 2004



SUGGESTED READING (General Topics from Recent Literature):

Mechanisms of Bone Metastasis. Roodman, David G. *New Eng J of Med* 2004; 350; 1655-1664.

Osteoprotegerin-Receptor Activator of Nuclear Factor-KB Ligand Ratio. A New Approach to Osteoporosis Treatment? Coetzee, M. and Kruger MC. *Southern Med J* 2004; 97(5):507-511.

Focused Ultrasound Treatment of Uterine Fibroid Tumors. Safety and Feasibility of a Noninvasive Thermoablative Technique. Stewart EA, Gedroyc WM, Tempany CM, et al. *Am J Obstet Gynecol* 2003; 189(1):48-54.

Rules for Making Human Tumor Cells. Hahn W C and Weinberg RA. *N Eng J Med* 2002; 347(20):1593-1603.

Note: This study set was put together by Dr. Boleslaw Liwnicz, the Registry's neuropathologist for over a decade. He was on chemotherapy at the time, and died of cancer shortly there after. The Registry dedicates this set to our friend and collegue. May God Bless … Donald Chase, Executive Director, CTTR.

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FILE DIAGNOSES

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

CTTR Subscription A October, 2004

Case 1:

Diffuse large B-cell lymphoma, cerebrum
T-X2000, M-95903

Case 2:

Subependymal giant cell astrocytoma, cerebrum
T-X2000, M-94003

Case 3:

Semi-necrotic myxoid process, likely sarcoma, cerebrum
T-X2000, M-88003

Case 4:

Meningioma, left temporoparietal region
T-X2595, M-95300

Case 5:

Giant cell glioblastoma, right frontal lobe
T-X2200, M-94413

Case 6:

Metastatic adenocarcinoma, probably pulmonary in origin
T-Y2000, M-81403

Case 7:

Anaplastic oligodendroglioma, frontal lobe
T-X2000, M-94513

Case 8:

Glioblastoma multiforme, temporal lobe
T-X2000, M-94403

Case 9:

Meningioma with lipomatosis metaplasia
T-X2000, M-95301

Case 10:

Low grade chondrosarcoma, cranium and infratemporal fossa
T-Y0151, M-92203

Alameda (Alameda County Medical Center - Lymphoma
Baldwin Park (Kaiser Permanente) - Lymphoma (3)
Glendale - Lymphoma vs. PNET
Hayward/Fremont - Small blue cell tumor, metastatic (NB, Ewings, lymphoma, P.D. syn sarc., rhabdo)
Irvine (University of California Irvine) - Lymphoma; 2nd choice plasmacytoma
Long Beach - Large cell lymphoma (6)
Monterey Park (Garfield Hospital) - Lymphoma
Monterey (Monterey Peninsula Pathologists) - Diffuse large cell lymphoma
Mountain View (El Camino Pathology Group) - Large cell lymphoma
Oakland (Kaiser Permanente) - Large cell lymphoma (4)
Sacramento (UC Davis Medical Center) - Lymphoma vs. metastatic neuroendocrine carcinoma
San Diego (Naval Medical Center) - Primary CNS lymphoma
San Francisco (SF General Hospital) - Anaplastic oligodendroglioma
Santa Rosa (Santa Rosa Memorial Hospital) - Large cell lymphoma (1); Diffuse large cell malignant lymphoma (2)
Ventura - Malignant lymphoma
Arizona (Maryvale Medical Center) - Anaplastic oligodendroglioma
Arkansas University of Arkansas Medical Center) - Primary CNS lymphoma
Colorado, Evergreen) - Diffuse B-cell lymphoma, small cleaved cell
Colorado (Lutheran Medical Center) - Lymphoma
Florida (Baptist Hospital) - Malignant, lymphoma large cell type vs. anaplastic oligodendroglioma vs. melanoma (special stains would help) (3); Large cell malignant lymphoma (1); Round cell tumor; ddx incluses lymphoma (would do immunostains) (1)
Florida (Winter Haven Hospital) - Lymphoma, possible mantle cell
Illinois, Burr Ridge) - Primary CNS lymphoma (DLBCL)
Illinois (Evanston Hospital) - Large cell lymphoma
Illinois (Northwestern Memorial Hospital) - Lymphoplasmocytic lymphoma
Indiana (Howard Community Hospital) - Anaplastic oligodendroglioma
Louisiana (Louisiana State University Medical Center) - Malignant lymphoma
Maryland (University of Maryland) - Lymphoma
Maryland (Johns Hopkins Hospital Residents) - Lymphoma
Massachusetts (Berkshire Medical Center) - CNS lymphoma
Massachusetts (New England Medical Center) - Lymphoma
Michigan, Kalamazoo) - High grade lymphoma
Michigan (Oakwood Hospital) - Malignant; favor non-Hodgkin's lymphoma
Michigan (St. Joseph Mercy Hospital) - Large B-cell lymphoma
Missouri (Truman Medical Center) - Lymphoma
Nebraska (Creighton University School of Medicine Residents) - Lymphoma
New York (Long Island Jewish Medical Center) - Lymphoma (DDx: PNET)
New York (Nassau University Medical Center) - Malignant lymphoma
New York (New York Presbyterian Residents) - Lymphoma
New York (Stony Brook University Hospital Residents) - Large cell lymphoma
New York (Westchester Medical Center) - Lymphoma
North Carolina (Mountain Area Pathology) - Large cell lymphoma (1); Large cell lymphoma c/w primary CNS lymphoma (1); Large cell lymphoma vs. chloroma
Ohio (Medical College of Ohio) - Diffuse large cell lymphoma, high grade
Ohio (McCullough Hyde Memorial Hospital) - Malignant lymphoma
Pennsylvania (Lehigh Valley Hospital) - Lymphoma (1); Primary CNS lymphoma (1)
Pennsylvania (Mt. Nittany Medical Center) - Medulloblastoma, cerebrum
Pennsylvania (Pennsylvania Hospital Residents) - Lymphoma (2)
Puerto Rico (University of Puerto Rico) - Primary CNS lymphoma
Qatar (Hamad Medical Corporation) - Lymphoma
Texas, Houston - Microglioma?
Texas, Lubbock - Large cell lymphoma
Texas (Pro Path Associates) - CNS lymphoma (1); Lymphoma (1)
Texas (Scott & White Memorial Hospital) - Large cell lymphoma
West Virginia (Greenbrier Valley Medical Center) - Primary central nervous system, lymphoma
Wisconsin (Meriter Hospital) - Large cell lymphoma
Wisconsin (St. Vincent Hospital) - Diffuse large cell lymphoma
Australia (North Queensland Pathology) - Chloroma
Australia (Royal Prince Alfred Hospital) - Large cell lymphoma
Canada (Foothills Medical Center) - Primary CNS lymphoma
Canada (Woodstock General Hospital) - Non-Hodgkins lymphoma

Brazil (UNIFESP/EPM) - Large B-cell lymphoma, with plasmacytic differentiation (2)
Hong Kong (Hong Kong Baptist Hospital) - Malignant lymphoma
Jamaica (University Hospital of West Indies) - Plasma cell neoplasm/Plasmacytoid central nervous system lymphoma
Netherlands, Amsterdam - Malignant lymphoma (non-Hodgkin's lymphoma)
Saudi Arabia (King Khalid University) - Small round cell tumor PNET vs. anaplastic ependymoma

Case 1 - Diagnosis:

Diffuse large B-cell lymphoma, cerebrum
T-X2000, M-95903

Directors Note: This case was contributed in 1976, when immunostains were not really an option. (drc)

Consultation: Jun Wang, M.D. (LLUMC), "Diffuse large B-cell lymphoma."

Case 1 – References:

Paueksakon P, Shaya M, Harper R, et al. Local Cryoglobulin Deposition in Primary Central Nervous System Lymphoma. *Hum Pathol* 2003; 34(7):720-724.

Ferreri AJ, Dell'Oro S, Reni M, et al. Questions and Answers in the Management of Primary Central Nervous System and Ocular Lymphomas. *Haematologica* 2003; 88(9):1063-1068.

Yamanaka R, Akutagawa S, Taguchi F, et al. Selection of Surrogate Marker Genes in Primary Central Nervous System Lymphomas for Radio-Chemotherapy by DNA Array Analysis of Gene Expression Profiles. *Int J Oncol* 2003; 23(4):913-923.

Kosuda S, Kusano S, Ishihara S, et al. Combined 201T1 and 67Ga Brain SPECT in Patients with Suspected Central Nervous System Lymphoma or Germinoma. Clinical and Economic Value. *Ann Nucl Med* 2003; 17(5):359-367.

Taillandier L, Chinot O, Hoang-Xuan K, et al. Chemotherapy Alone as Initial Treatment for Primary CNS Lymphoma in Patients Older than 60 Years. A Multicenter Phase II Study (26952) of the European Organization for Research and Treatment of Cancer Brain Tumor Group. *J Clin Oncol* 2003; 21(14):2726-2731.

Ferreri AJ, Abrey LE, Blay JY, et al. Summary Statement on Primary Central Nervous System Lymphomas from the Eighth International Conference on Malignant Lymphoma. *J Clin Oncol* 2003; 21(12):2407-2414.

Case No. 2, Accession No. 22484 October 2004

Alameda (Alameda County Medical Center - Subependymal giant cell astrocytoma
Baldwin Park (Kaiser Permanente) - Gemistocytic astrocytoma (2); Giant cell astrocytoma (1)
Glendale - Ganglion cell tumor
Hayward/Fremont - Ganglion cell tumor
Irvine (University of California Irvine) - Subependymal giant cell
Long Beach - Gemistocytic astrocytoma (6)
Monterey Park (Garfield Hospital) - Neuroma
Monterey (Monterey Peninsula Pathologists) - Gemistocytic astrocytoma
Mountain View (El Camino Pathology Group) - Giant cell astrocytoma vs. ganglion cell tumor
Oakland (Kaiser Permanente) - High grade astrocytoma (4)
Sacramento (UC Davis Medical Center) - Pleomorphic xanthoastrocytoma
San Diego (Naval Medical Center) - SEGA
San Francisco (SF General Hospital) - Giant cell astrocytoma
Santa Rosa (Santa Rosa Memorial Hospital) - Glioblastoma multiforme with gemistocytic features (2); Glioblastoma multiforme (1)
Ventura - Ganglion cell tumor
Arizona (Maryvale Medical Center) - Gemistocytic astrocytoma
Arkansas University of Arkansas Medical Center) - Subependymal giant cell astrocytoma
Colorado, Evergreen) - Ganglioglioma
Colorado (Lutheran Medical Center) - Pleomorphic xanthoastrocytoma
Florida (Baptist Hospital) - Desmoplastic infantile astrocytoma/ganglioglioma (1); Ganglioglioma (4)
Florida (Winter Haven Hospital) - Pleomorphic xanthoastrocytoma
Illinois, Burr Ridge) - Glioblastoma multiforme, giant cell variant
Illinois (Evanston Hospital) - PXA
Illinois (Northwestern Memorial Hospital) - Subependymal giant cell astrocytoma
Indiana (Howard Community Hospital) - Gemistocytic astrocytoma
Louisiana (Louisiana State University Medical Center) - Subependymal giant cell tumor
Maryland (University of Maryland) - Subependymal giant cell tumor

Maryland (John Hopkins Hospital Residents) - Ganglion cell tumor
Massachusetts (Berkshire Medical Center) - PXA
Massachusetts (New England Medical Center) - Ganglioglioma/pleomorphic xanthoastrocytoma
Michigan, Kalamazoo) - Malignant rhabdoid tumor
Michigan (Oakwood Hospital) - Gemistocytic astrocytoma
Michigan (St. Joseph Mercy Hospital) - Gangliocytoma
Missouri (Truman Medical Center) - Pleomorphic xanthoastrocytoma
Nebraska (Creighton University School of Medicine Residents) - Gangliocytoma
New York (Long Island Jewish Medical Center) - Astrocytoma, high grade (DDx: Subependymal giant cell astrocytoma)
New York (Nassau University Medical Center) - Cerebral neuroblastoma
New York (New York Presbyterian Residents) - Subependymal giant cell astrocytoma
New York (Stony Brook University Hospital Residents) - Subependymal giant cell astrocytoma
New York (Westchester Medical Center) - Giant cell astrocytoma vs. PXA
North Carolina (Mountain Area Pathology) - Ganglioglioma
Ohio (Medical College of Ohio) - Pleomorphic xanthoastrocytoma
Ohio (McCullough Hyde Memorial Hospital) - Gemistocytic astrocytoma
Pennsylvania (Lehigh Valley Hospital) - GBM (1); Ganglion cell tumor (gangliocytoma) (2)
Pennsylvania (Mt. Nittany Medical Center) - Pleomorphic xanthoastrocytoma, left frontal lobe
Pennsylvania (Pennsylvania Hospital Residents) - Anaplastic gemistocytic astrocytoma (2)
Puerto Rico (University of Puerto Rico) - Subependymal giant cell astrocytoma
Qatar (Hamad Medical Corporation) - Ganglioglioma (ganglion cell tumor)
Texas, Houston - Gemistocytic astrocytoma/glioblastoma multiforme
Texas, Lubbock - Neurocytoma
Texas (Pro Path Associates) - Aggressive meningioma (2)
Texas (Scott & White Memorial Hospital) - Atypical teratoid/rhabdoid tumor
West Virginia (Greenbrier Valley Medical Center) - Gemistocytic astrocytoma
Wisconsin (Meriter Hospital) - Diffuse astrocytoma
Wisconsin (St. Vincent Hospital) - Subependymal giant cell astrocytoma
Australia (North Queensland Pathology) - Subependymal giant cell astrocytoma
Australia (Royal Prince Alfred Hospital) - Pleomorphic xanthoastrocytoma
Canada (Foothills Medical Center) - Pleomorphic xanthoastrocytoma
Canada (Woodstock General Hospital) - Ganglioneuroma
Brazil (UNIFESP/EPM) - Gemistocytic glioblastoma (2)
Jamaica (University Hospital of West Indies) - Ganglion cell tumor/ganglioglioma
Netherlands, Amsterdam - Gemistocytic astrocytoma
Saudi Arabia (King Khalid University) - Gemistocytic astrocytoma

Case 2 - Diagnosis:

Subependymal giant cell astrocytoma, cerebrum
T-X2000, M-94003

Consultation: Louis Dehner, M.D. CTTR seminar 1982, "Subependymal giant cell astrocytoma."

Case 2 - References:

Shepherd CW, Scheithauer BW, Gomez MR, et al. Subependymal Giant Cell Astrocytoma. A Clinical, Pathological and Flow Cytometric Study. *Neurosurg* 1991 28(6):864-868.

Martin HL, Lee E and Albores-Saavedra J. Secondary parathyroid hyperplais in tuberous sclerosis. Report of a Case with Large Eosinophilic Ganglion-Like Cells Similar to Those of Subependymal Giant Cell astrocytoma, Tubers and Atypical Angiomyolipoma. *Am J Surg Pathol* 2002; 26(2):260-265.

Crino PB and Henske EP. New Developments in the Neurobiology of the Tuberous Sclerosis Complex. *Neurology* 1999; 53(7):1384-1390.

Watanabe Y, Oki S, Migita K, et al. A Case of Subependymal Giant Cell Astrocytoma Not Associated with Tuberous Sclerosis. *No Shinkei Geka* (Japan) 2003; 31(5):543-548.

Kim SK, Wang KC and Cho BK. Biological Behavior and Tumorigenesis of Subependymal Giant Cell Astrocytomas. *J Neurooncol* 2001; 52(3):217-225.

Case No. 3, Accession No. 29188 **October 2004**

Alameda (Alameda County Medical Center - Atypical fibroinflammatory lesion
Baldwin Park (Kaiser Permanente) - Pilocytic astrocytoma (1); Myxopapillary ependymoma (1)
Glendale - Solitary fibrous tumor
Hayward/Fremont - Post traumatic pseudotumor
Irvine (University of California Irvine) - Protoplasmic astrocytoma ?
Long Beach - Primary neoplasm, NOS (4); Diffuse glial reaction (2)
Monterey Park (Garfield Hospital) - Sarcoma
Monterey (Monterey Peninsula Pathologists) - Dysembryoplastic neuroepithelial tumor (DNT)
Mountain View (El Camino Pathology Group) - Pilocytic astrocytoma
Oakland (Kaiser Permanente) - Extensive lamina necrosis (? brain) (4)
Sacramento (UC Davis Medical Center) - Abscesses, multiple
San Diego (Naval Medical Center) - Global hemispheric necrosis/multicystic encephalopathy
San Francisco (SF General Hospital) - Fibrous reaction
Santa Rosa (Santa Rosa Memorial Hospital) - Herpes encephalitis (1); Acute meningitis (1); Organizing granulation tissue with acute inflammation (1)
Ventura - Meningioma
Arizona (Maryvale Medical Center) - Acute disseminated leukoencephalitis
Arkansas University of Arkansas Medical Center) - Chronic subdural hematoma
Colorado, Evergreen) - Chordoid meningoma
Colorado (Lutheran Medical Center) - Infarct
Florida (Baptist Hospital) - Dysembryoplastic neuroepithelial tumor (5)
Florida (Winter Haven Hospital) - Progressive multifocal leukoencephalopathy
Illinois, Burr Ridge) - Necrosis with gliosis
Illinois (Evanston Hospital) - Sarcoma
Illinois (Northwestern Memorial Hospital) - Reactive/inflammatory, possible amebi encephalitis
Louisiana (Louisiana State University Medical Center) - Dysembryoplastic neuroepithelial tumor
Maryland (University of Maryland) - Dysembryoplastic neuroepithelial tumor
Maryland (John Hopkins Hospital Residents) - Astrocytoma (WHO grade I)
Massachusetts (Berkshire Medical Center) - Infectious abscess
Massachusetts (New England Medical Center) - Vascular malformation
Michigan, Kalamazoo) - Infarct
Michigan (Oakwood Hospital) - Malignant acute leukemia vs. neuroblastoma
Michigan (St. Joseph Mercy Hospital) - Solitary fibrous tumor
Missouri (Truman Medical Center) - Organized subarachnoid hemorrhage
Nebraska (Creighton University School of Medicine Residents) - Old infarct
New York (Long Island Jewish Medical Center) - Spindle cell sarcoma, favor fibrosarcoma
New York (Nassau University Medical Center) - Xantofibromyxoid lesion, benign
New York (New York Presbyterian Residents) - Meningial sarcoma
New York (Stony Brook University Hospital Residents) - Amebic meningioencephalitis
New York (Westchester Medical Center) - Sarcoma
North Carolina (Mountain Area Pathology) - Inflammatory pseudotumor (1); Organizing infarcts (1); Organized necrosis (1)
Ohio (Medical College of Ohio) - Reactive fibroblastic/myofibroblastic proliferation
Pennsylvania (Lehigh Valley Hospital) - Inflammation (1); Chronic subdural hematoma (1)
Pennsylvania (Mt. Nittany Medical Center) - Infarct with gliosis
Pennsylvania (Pennsylvania Hospital Residents) - Respiratory brain
Puerto Rico (University of Puerto Rico) - Subdural membrane
Qatar (Hamad Medical Corporation) - Cerebral amoebiasis (1); Diffuse axonal injury 2nd choice
Texas, Houston - Infarction
Texas, Lubbock - Rhabdoid tumor
Texas (Pro Path Associates) - Taxoplasmosis
Texas (Scott & White Memorial Hospital) - Non-neoplastic reactive reparative process
West Virginia (Greenbrier Valley Medical Center) - Cerebral infarct
Wisconsin (Meriter Hospital) - Abscess
Wisconsin (St. Vincent Hospital) - Possible dysembryoplasia neuroepithelial tumor
Australia (North Queensland Pathology) - Necrotic/organizing subdural hematoma
Australia (Royal Prince Alfred Hospital) - Liquefactive necrosis (no tumor seen)
Canada (Foothills Medical Center) - Inflammatory pseudotumor
Canada (Woodstock General Hospital) - Organized subdural hamatoma
Brazil (UNIFESP/EPM) - Dysembryoplastic neuroepithelial tumor (DNET) (2)
Hong Kong (Hong Kong Baptist Hospital) - Gliomatosis

Jamaica (University Hospital of West Indies) - Contusion resolution
Netherlands, Amsterdam - Acute myeloid leukemia
Saudi Arabia (King Khalid University) - Cerebral atrophy, probably inflammatory (infection)

Case 3 - Diagnosis:

Semi-necrotic myxoid process, likely sarcoma, cerebrum
T-X2000, M-88003

Consultation: Boleslaw Liwnicz, M.D. (LLUMC) "Myxoid sarcoma (NOS)"

Case 3 - References:

Lam RM and Colah SA. Atypical Fibrous Histiocytoma with Myxoid Stroma. A Rare Lesion Arising from Dura Mater of the Brain. *Cancer* 1979; 43(1):237-245.

Kalyanaraman UP, Taraska JJ, Fierer JA, et al. Malignant Fibrous Histiocytoma of the Meninges. Histological, Ultrastructural, and Immunocytochemical Studies. *J Neurosurg* 1981; 55(6):957-962.

Berry AD 3rd, Reintjes SL and Kepes JJ. Intracranial Malignant Fibrous Histiocytoma with Abscess-Like Tumor Necrosis. Case Report. *J Neurosurg* 1988; 69(5):780-784.

Tsutsumi M, Kawano T, Kawaguchi T, et al. Intracranial Meningeal Malignant Fibrous Histiocytoma Mimicking Parsagittal Meningioma. Case Report. *Neurol Med Chir* (Tokyo) 2001; 41(2):90-93.

Case No. 4, Accession No. 29839 October 2004

Alameda (Alameda County Medical Center - Meningioma
Baldwin Park (Kaiser Permanente) - Meningioma, fibrous type (1); Meningioma (2)
Glendale - Meningioma
Hayward/Fremont - Meningioma, fibroblastic
Irvine (University of California Irvine) - Meningioma
Long Beach - Meningioma (6)
Monterey Park (Garfield Hospital) - Meningioma
Monterey (Monterey Peninsula Pathologists) - Meningioma
Mountain View (El Camino Pathology Group) - Meningioma
Oakland (Kaiser Permanente) - Meningioma with extramedullary hyperplasia (4)
Sacramento (UC Davis Medical Center) - Clear cell meningioma
San Diego (Naval Medical Center) - Meningioma, Grade I (WHO)
San Francisco (SF General Hospital) - Meningioma
Santa Rosa (Santa Rosa Memorial Hospital) - Fibrous meningioma (1); Meningioma (2)
Ventura - Meningioma
Arizona (Maryvale Medical Center) - Meningioma, WHO Grade I
Arkansas University of Arkansas Medical Center) - Meningioma
Colorado, Evergreen) - Fibrous meningioma
Colorado (Lutheran Medical Center) - Meningioma
Florida (Baptist Hospital) - Schwannoma (1); Meningioma (3); Hemangiopericytoma (1)
Florida (Winter Haven Hospital) - Meningioma
Illinois, Burr Ridge) - Pilocytotic astrocytoma
Illinois (Evanston Hospital) - Meningioma
Illinois (Northwestern Memorial Hospital) - Meningioma
Indiana (Howard Community Hospital) - Meningioma
Louisiana (Louisiana State University Medical Center) - Meningioma
Maryland (University of Maryland) - Microcystic meningioma
Maryland (Johns Hopkins Hospital Residents) - Meningioma
Massachusetts (Berkshire Medical Center) - Meningioma
Massachusetts (New England Medical Center) - Neurilemmoma
Michigan, Kalamazoo) - Meningothelial meningioma
Michigan (Oakwood Hospital) - Meningioma, meningothelial type
Michigan (St. Joseph Mercy Hospital) - Meningioma
Missouri (Truman Medical Center) - Meningioma fibroblastic type
Nebraska (Creighton University School of Medicine Residents) - Schwannoma
New York (Long Island Jewish Medical Center) - Atypical meningioma
New York (Nassau University Medical Center) - Meningioma

New York (New York Presbyterian Residents) - Meningioma with focal necrosis, not atypical (WHO Grade I)
New York (Stony Brook University Hospital Residents) - Meningioma
New York (Westchester Medical Center) - Meningioma
North Carolina (Mountain Area Pathology) - Schwannoma, r/o meningioma (1); Schwannoma (1); Meningioma (1)
Ohio (Medical College of Ohio) - Meningioma
Ohio (McCullough Hyde Memorial Hospital) - Schwannoma
Pennsylvania (Lehigh Valley Hospital) - Meningioma (2)
Pennsylvania (Mt. Nittany Medical Center) - Meningioma, intracranial
Pennsylvania (Pennsylvania Hospital Residents) - Meningioma (2)
Puerto Rico (University of Puerto Rico) - Meningioma
Qatar (Hamad Medical Corporation) - Meningothelial meningioma
Texas, Houston - Meningioma
Texas, Lubbock - Neurilemmoma
Texas (Pro Path Associates) - Meningioma, syncytial type (2)
Texas (Scott & White Memorial Hospital) - Meningioma
West Virginia (Greenbrier Valley Medical Center) - Meningioma
Wisconsin (Meriter Hospital) - Meningioma
Wisconsin (St. Vincent Hospital) - Meningioma
Australia (North Queensland Pathology) - Meningioma
Australia (Royal Prince Alfred Hospital) - Meningioma, Grade 1 (transitional)
Canada (Foothills Medical Center) - Meningioma
Canada (Woodstock General Hospital) - Meningioma
Brazil (UNIFESP/EPM) - Meningioma (probably associated with NF-2) (2)
Hong Kong (Hong Kong Baptist Hospital) - Meningioma, meningiothelial type, focally microcystic
Jamaica (University Hospital of West Indies) - Meningioma, fibroblastic type
Netherlands, Amsterdam - Meningioma
Saudi Arabia (King Khalid University) - Meningioma, meningothelial type

Case 4 - Diagnosis:

Meningioma, left temporoparietal region
T-X2595, M-95300

Case 4 - References:

Cho YD, Choi GH, Lee SP, et al. (1)H-MRS Metabolic Patterns for Distinguishing Between Meningiomas and Other Brain Tumors. *Magn Reson Imaging* 2003; 21(6):663-672.

Miettinen M and Paetau A. Mapping of the Keratin Polypeptides in Meningiomas of Different Types. An Immunohistochemical Analysis of 463 Cases. *Hum Pathol* 2002; 33(6):590-598.

Al-Sarraj S, King A, Martin AJ, et al. Ultrastructural Examination is Essential for Diagnosis of Papillary Meningioma. *Histopath* 2001; 38(4):318-324.

Filippi CG, Edgar MA, Ulug AM, et al. Appearance of Meningiomas on Diffusion-Weighted Images. Correlating Diffusion Constants with Histopathologic Findings. *AJNR Am J Neuroradiol* 2001; 22(1):65-72.

Case No. 5, Accession No. 29845 October 2004

Alameda (Alameda County Medical Center - Gliosarcoma
Baldwin Park (Kaiser Permanente) - Gliosarcoma (1); Glioblastoma multiforme (1); High grade glioma (1)
Glendale - High-sarcoma vs. GBM
Hayward/Fremont - Giant cell GBM (monstrocellular sarcoma/gliosarcoma)
Irvine (University of California Irvine) - Glioblastoma
Long Beach - Glioblastoma multiforme (6)
Monterey Park (Garfield Hospital) - Glioblastoma multiforme
Monterey (Monterey Peninsula Pathologists) - Glioblastoma multiforme
Mountain View (El Camino Pathology Group) - Glioblastoma multiforme
Oakland (Kaiser Permanente) - Glioblastoma (4)
Sacramento (UC Davis Medical Center) - Glioblastoma multiforme vs. anaplastic pleomorphic xanthoastrocytoma
San Diego (Naval Medical Center) - Giant cell glioblastoma vs. malignant fibrous histiocytoma
San Francisco (SF General Hospital) - Giant cell glioblastoma
Santa Rosa (Santa Rosa Memorial Hospital) - Gliosarcoma (1); Glioblastoma multiforme (2)
Ventura - Glioblastoma multiforme
Arizona (Maryvale Medical Center) - Giant cell glioblastoma

Arkansas University of Arkansas Medical Center) - Glioblastoma multiforme
Colorado, Evergreen) - Giant cell glioblastoma
Colorado (Lutheran Medical Center) - GBM
Florida (Baptist Hospital) - Gliosarcoma (5)
Florida (Winter Haven Hospital) - Giant cell glioblastoma
Illinois, Burr Ridge) - Glioblastoma multiforme
Illinois (Evanston Hospital) - Sarcoma
Illinois (Northwestern Memorial Hospital) - Gliosarcoma
Indiana (Howard Community Hospital) - Glioblastoma multiforme
Louisiana (Louisiana State University Medical Center) - Glioblastoma multiforme
Maryland (University of Maryland) - Giant cell glioblastoma
Maryland (Johns Hopkins Hospital Residents) - Anaplastic astrocytoma
Massachusetts (Berkshire Medical Center) - Giant cell glioblastoma multiforme
Massachusetts (New England Medical Center) - Glioblastoma multiforme
Michigan, Kalamazoo) - Gliosarcoma
Michigan (Oakwood Hospital) - Glioblastoma multiforme
Michigan (St. Joseph Mercy Hospital) - Gliosarcoma
Missouri (Truman Medical Center) - Giant cell glioblastoma
Nebraska (Creighton University School of Medicine Residents) - Giant cell glioblastoma multiforme
New York (Long Island Jewish Medical Center) - Pleomorphic xanthoastrocytoma (DDx: Glioblastoma multiforme)
New York (Nassau University Medical Center) - Giant cell glioblastoma
New York (New York Presbyterian Residents) - Gliosarcoma
New York (Stony Brook University Hospital Residents) - Glioblastoma multiforme
New York (Westchester Medical Center) - Giant cell glioblastoma
North Carolina (Mountain Area Pathology) - PXA (1); Glioblastoma multiform vs. Grade IV PXA (1); Glioblastoma multiforme (1)
Ohio (Medical College of Ohio) - Glioblastoma multiforme, giant cell variant
Ohio (McCullough Hyde Memorial Hospital) - Glioblastoma
Pennsylvania (Lehigh Valley Hospital) - Glioblastoma multiforme (1); Gliosarcoma (1)
Pennsylvania (Mt. Nittany Medical Center) - Glioblastoma multiforme, right frontal lobe
Pennsylvania (Pennsylvania Hospital Residents) - Giant cell glioblastoma (2)
Puerto Rico (University of Puerto Rico) - Glioblastoma multiforme
Qatar (Hamad Medical Corporation) - Giant cell glioblastoma
Texas, Houston - Glioblastoma multiforme, giant cell type
Texas, Lubbock - Anaplastic oligodendroglioma
Texas (Pro Path Associates) - Pleomorphic xanthoastrocytoma
Texas (Scott & White Memorial Hospital) - Glioblastoma multiforme
West Virginia (Greenbrier Valley Medical Center) - Astrocytoma, high grade
Wisconsin (Meriter Hospital) - Grade 4, astrocytoma
Wisconsin (St. Vincent Hospital) - Glioblastoma multiforme
Australia (North Queensland Pathology) - Glioblastoma multiforme, monstro cellular type
Australia (Royal Prince Alfred Hospital) - Gliosarcoma (Grade 4)
Canada (Foothills Medical Center) - Giant cell glioblastoma multiforme
Canada (Woodstock General Hospital) - Glioblastoma multiforme
Brazil (UNIFESP/EPM) - Pleomorphic xanthoastrocytoma with anaplastic features (2)
Hong Kong (Hong Kong Baptist Hospital) - Gliosarcoma
Jamaica (University Hospital of West Indies) - Gliobastoma multiforme, giant cell type
Netherlands, Amsterdam - Glioblastoma multiforme
Saudi Arabia (King Khalid University) - Giant cell glioblastoma

Case 5 - Diagnosis:

Giant cell glioblastoma, right frontal lobe
T-X2200, M-94413

Case 5 - References:

Katoh M, Aida T, Sugimoto S, et al. Immunohistochemical Analysis of Giant Cell Glioblastoma. *Pathol Int* 1995; 45(4):275-282.

Margetts JC, and Kalyan-Raman UP. Giant-Celled Glioblastoma of Brain. A Clinico-Pathological and Radiological Study of Ten Cases (Including Immunohistochemistry and Ultrastructure). *Cancer* 1989; 63(3)524-531.

Peraud A, Watanabe K, Schwechheimer K, et al. Genetic Profile of the Giant Cell Glioblastoma. *Lab Invest* 1999; 79(2):123-129.

Sembritzki O, Hagel C, Lamszus K, et al. Cytoplasmic Localization of Wild-type p53 in Glioblastomas Correlates with Expression of Vimentin and Glial Fibrillary Acidic Protein. *Neuro-Oncol* 2002 4(3):171-178.

Martinez-Diaz H, Kleinschmidt-DeMasters BK and Powell SZ. Giant Cell Glioblastoma and Pleomorphic Xanthoastrocytoma Show Different Immunohistochemical Profiles for Neuronal Antigens and p53 but Share Reactivity for Class III Beta-Tubulin. *Arch Pathol Lab Med* 2003; 127(9):1187-1191.

Akslen LA, Mork SJ, Larsen JL, et al. Giant Cell Glioblastoma. A Work-Up of 2 Cases with Long Survival. *Acta Neurol Scand* 1989; 79(3):194-199.

Case No. 6, Accession No. 29627 October 2004

Alameda (Alameda County Medical Center - Adenocarcinoma, metastatic
Baldwin Park (Kaiser Permanente) - Metastatic adenocarcinoma, c/w primary (3)
Glendale - Metastatic adenocarcinoma
Hayward/Fremont - Metastatic adenocarcinoma consistent with lung origin
Irvine (University of California Irvine) - Metastatic adenocarcinoma
Long Beach - Metastatic adenocarcinoma (6)
Monterey Park (Garfield Hospital) - Metastatic adenocarcinoma
Monterey (Monterey Peninsula Pathologists) - Metastatic adenocarcinoma consistent with lung primary
Mountain View (El Camino Pathology Group) - Metastatic adenocarcinoma
Oakland (Kaiser Permanente) - Metastatic adenocarcinoma (4)
Sacramento (UC Davis Medical Center) - Metastatic non-small cell carcinoma
San Diego (Naval Medical Center) - Metastatic adenocarcinoma from lung
San Francisco (SF General Hospital) - Metastatic lung adenocarcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Metastatic malignant mesothelioma (1); Metastatic carcinoma (1); Metastatic adenocarcinoma (1)
Ventura - High-grade papillary carcinoma
Arizona (Maryvale Medical Center) - Metastatic adenocarcinoma consistent with lung primary
Arkansas University of Arkansas Medical Center) - Metastatic pulmonary adenocarcinoma
Colorado, Evergreen) - Metastatic lung carcinoma
Colorado (Lutheran Medical Center) - Metastatic adenocarcinoma
Florida (Baptist Hospital) - Chorid plexus carcinoma if a metastasis can be ruled out (1); Met, lung carcinoma (adenocarcinoma) (2); Metastatic papillary adenocarcinoma (1); Adenocarcinoma (1)
Florida (Winter Haven Hospital) - Metastatic adenocarcinoma
Illinois, Burr Ridge) - Metastatic papillary carcinoma c/w lung primary
Illinois (Evanston Hospital) - Metastatic adenocarcinoma
Illinois (Northwestern Memorial Hospital) - Metastatic carcinoma
Indiana (Howard Community Hospital) - Metastatic adenocarcinoma
Louisiana (Louisiana State University Medical Center) - Metastatic carcinoma
Maryland (University of Maryland) - Metastatic lung cancer
Maryland (Johns Hopkins Memorial Hospital) - Adenocarcinoma, c/w metastasis from patient's know lung primary
Massachusetts (Berkshire Medical Center) - Metastatic adenocarcinoma (lung)
Massachusetts (New England Medical Center) - Metastatic adenocarcinoma of lung
Michigan, Kalamazoo) - Metastatic adenocarcinoma
Michigan (Oakwood Hospital) - Metastatic carcinoma
Michigan (St. Joseph Mercy Hospital) - Adenocarcinoma
Missouri (Truman Medical Center) - Lung adenocarcinoma metastasis
Nebraska (Creighton University School of Medicine Residents) - Metastatic adenocarcinoma
New York (Long Island Jewish Medical Center) - Metastatic adenocarcinoma, favor lung origin
New York (Nassau University Medical Center) - Metastatic carcinoma
New York (New York Presbyterian Residents) - Metastatic carcinoma, compatible with lung primary
New York (Stony Brook University Hospital Residents) - Metastatic adenocarcinoma
New York (Westchester Medical Center) - Metastatic adenocarcinoma
North Carolina (Mountain Area Pathology) - Metastatic adenocarcinoma (3)
Ohio (Medical College of Ohio) - Metastatic papillary adenocarcinoma
Ohio (McCullough Hyde Memorial Hospital) - Ependymoma
Pennsylvania (Lehigh Valley Hospital) - Metastatic carcinoma (2)
Pennsylvania (Mt. Nittany Medical Center) - Metastatic adenocarcinoma, left occipital lobe
Pennsylvania (Pennsylvania Hospital Residents) - Metastatic adenocarcinoma (2)
Puerto Rico (University of Puerto Rico) - Metastatic lung carcinoma
Qatar (Hamad Medical Corporation) - Metastatic adenocarcinoma of probable lung origin
Texas, Houston - Metastatic adenocarcinoma
Texas, Lubbock - Metastatic bronchioloalveolar carcinoma

Texas (Pro Path Associates) - Metastatic adenocarcinoma (2)
Texas (Scott & White Memorial Hospital) - Metastatic adenocarcinoma
West Virginia (Greenbrier Valley Medical Center) - Metastatic lung carcinoma
Wisconsin (Meriter Hospital) - Metastatic non-small carcinoma
Wisconsin (St. Vincent Hospital) - Metastatic adenocarcinoma, papillary, c/w lung origin
Australia (North Queensland Pathology) - Metastatic adenocarcinoma
Australia (Royal Prince Alfred Hospital) - Metastatic poorly differentiated carcinoma
Canada (Foothills Medical Center) - Metastatic small cell carcinoma of lung
Canada (Woodstock General Hospital) - Metastatic carcinoma
Brazil (UNIFESP/EPM) - Metastatic papillary adenocarcinoma of the lung (2)
Hong Kong (Hong Kong Baptist Hospital) - Metastatic adenocarcinoma
Jamaica (University Hospital of West Indies) - Metastatic lung adenocarcinoma, papillary type
Netherlands, Amsterdam - Metastatic papillary adenocarcinoma
Saudi Arabia (King Khalid University) - Metastatic bronchioalveolar carcinoma

Case 6 - Diagnosis:

Metastatic adenocarcinoma, probably pulmonary in origin
T-Y2000, M-81403

Case 6 - References:

Koutras AK, Marangos M, Kourelis T, et al. Surgical Management of Cerebral Metastases From Non-Small Lung Cancer. *Tumori* 2003; 89(3):292-297.

Ohta Y, Oda M, Tsunezuka Y, Uchiyama N, et al. Results of Recent Therapy for Non-Small-Cell Lung Cancer with Brain metastasis as the Initial Relapse. *Am J Clin Oncol* 2002; 25(5):476-479.

Rodrigus P, de Brouwer P and Raaymakers E. Brain Metastases and Non-Small Cell Lung Cancer. Prognostic Factors and Correlation with Survival After Irradiation. *Lung Cancer* 2001; 32(2):129-136.

Shahidi H and Kvale PA. Long-Term Survival Following Surgical Treatment of Solitary Brain Metastasis in Non-Small Cell Lung Cancer. *Chest* 1996; 109(1):271-276.

Arbit E, Wronski M, Burt M, et al. The Treatment of Patients with Recurrent Brain Metastases. A Retrospective Analysis of 109 Patients with Nonsmall Cell Lung Cancer. *Cancer* 1995; 76(5):765-773.

Case No. 7, Accession No. 29793 October 2004

Alameda (Alameda County Medical Center - Anaplastic astrocytoma
Baldwin Park (Kaiser Permanente) - Astrocytic astrocytoma (1); Oligodendroglioma (1); Glioma (1)
Glendale - Anaplastic oligodendroglioma
Hayward/Fremont - Astrocytoma, Grade II, modestly gemistocytic
Irvine (University of California Irvine) - Oligodendroglioma
Long Beach - Oligodendroglioma, high grade (6)
Monterey Park (Garfield Hospital) - Hi grade astrocytoma
Monterey (Monterey Peninsula Pathologists) - Oligodendroglioma
Mountain View (El Camino Pathology Group) - Oligodendroglioma
Oakland (Kaiser Permanente) - Anaplastic astrocytoma (4)
Sacramento (UC Davis Medical Center) - Astrocytoma, Grade II
San Diego (Naval Medical Center) - Oligodendroglioma, Grade II (WHO)
San Francisco (SF General Hospital) - Anaplastic oligodendroglioma
Santa Rosa (Santa Rosa Memorial Hospital) - Oligodendroglioma (2); Protoplasmic astrocytoma (1)
Ventura - Anaplastic astrocytoma
Arizona (Maryvale Medical Center) - Anaplastic astrocytoma, WHO Grade III
Arkansas University of Arkansas Medical Center) - Low-grade astrocytoma
Colorado, Evergreen) - Oligoastrocytoma
Colorado (Lutheran Medical Center) - Oligodendroglioma
Florida (Baptist Hospital) - Oligodendroglioma (4); Grade III glioma (1)
Florida (Winter Haven Hospital) - Anaplastic oligodendroglioma
Illinois, Burr Ridge) - Protoplasmic astrocytoma
Illinois (Evanston Hospital) - Anaplastic oligodendroglioma
Illinois (Northwestern Memorial Hospital) - Astrocytoma
Indiana (Howard Community Hospital) - Fibrillary astrocytoma
Louisiana (Louisiana State University Medical Center) - Oligodendroglioma

Maryland (University of Maryland) - Oligodendroglioma
Maryland (Johns Hopkins Hospital Residents) - Astrocytoma (WHO, Grade III)
Massachusetts (Berkshire Medical Center) - Mixed oligoastrocytoma, Grade II
Massachusetts (New England Medical Center) - Oligodendroglioma
Michigan, Kalamazoo) - Ganglioglioma
Michigan (Oakwood Hospital) - Anaplastic astrocytoma
Michigan (St. Joseph Mercy Hospital) - Oligodendroglioma
Missouri (Truman Medical Center) - Diffuse astrocytoma
Nebraska (Creighton University School of Medicine Residents) - Cystic astrocytoma
New York (Long Island Jewish Medical Center) - Dysembryoplastic neuroepithelial tumor
New York (Nassau University Medical Center) - Astrocytoma, anaplastic
New York (New York Presbyterian Residents) - Anaplastic astrocytoma (WHO, Grade III)
New York (Stony Brook University Hospital Residents) - Anaplastic astrocytoma
New York (Westchester Medical Center) - Anaplastic astrocytoma
North Carolina (Mountain Area Pathology) - Oligodendroglioma (3)
Ohio (Medical College of Ohio) - Diffuse astrocytoma, grade II
Ohio (McCullough Hyde Memorial Hospital) - Anaplastic astrocytoma
Pennsylvania (Lehigh Valley Hospital) - Pilocytic astrocytoma (1); Oligodendroglioma (1)
Pennsylvania (Mt. Nittany Medical Center) - Anaplastic astrocytoma
Pennsylvania (Pennsylvania Hospital Residents) - Subependymoma (2)
Puerto Rico (University of Puerto Rico) - Diffuse astrocytoma
Qatar (Hamad Medical Corporation) - Astrocytoma, Grade III
Texas, Houston - Astrocytoma II
Texas, Lubbock - Oligodendroglioma
Texas (Pro Path Associates) - Pilocytic astrocytoma (2)
Texas (Scott & White Memorial Hospital) - Oligodendroglioma
West Virginia (Greenbrier Valley Medical Center) - Astrocytoma, low grade
Wisconsin (Meriter Hospital) - Grade II-III astrocytoma
Wisconsin (St. Vincent Hospital) - Anaplastic astrocytoma vs. oligoastrocytoma
Australia (North Queensland Pathology) - Oligodendroglioma
Australia (Royal Prince Alfred Hospital) - Mixed oligoastrocytoma
Canada (Foothills Medical Center) - Oligodendroglioma, WHO Grade II
Canada (Woodstock General Hospital) - Astrocytoma
Brazil (UNIFESP/EPM) - Ganglion cell tumor/ganglioglioma (2)
Hong Kong (Hong Kong Baptist Hospital) - Protoplasmic astrocytoma
Jamaica (University Hospital of West Indies) - Pilocytic astrocytoma, cystic
Netherlands, Amsterdam - Anaplastic oligodendroglioma
Saudi Arabia (King Khalid University) - Low grade (fibrillary Grade II) astrocytoma

Case 7 - Diagnosis:

Anaplastic oligodendroglioma, frontal lobe
T-X2000, M-94513

Consultation: Boleslaw Liwniez, M.D., (LLUMC) "Anaplastic Oligodendroglioma" & Amyn M. Rojiani, M.D. (H. Lee Moffitt Cancer Center-Univerisity of South Florida, Tampa), "Anaplastic Astrocytoma".

Case 7 - References:

Gelpi E, Ambros IM, Birner P, et al. Fluorescent In-Situ Hybridization on Isolated Tumor Cell Nuclei. A Sensitive Method for 1p and 19q Deletion Analysis in Paraffin-Embedded Oligodendroglial Tumor Specimens. *Mod Pathol* 2003; 16(7):708-715.
Anand M, Kumar R, Jain P, et al. Metastatic Anaplastic Oligodendroglioma Simulating Acute Leukemia. A Case Report. *Acta Cytol* 2003; 47(3):467-469.
Sharma A, Agarwal A, Sharma MC, et al. Bone Marrow Metastasis in Anaplastic Oligodendroglioma. *Int J Clin Pract* 2003; 57(4):351-352.

Case No. 8, Accession No. 29095 October 2004

Alameda (Alameda County Medical Center - Glioblastoma multiforme
Baldwin Park (Kaiser Permanente) - Glioblastoma multiforme (2); Glioblastoma (1)
Glendale - Glioblastoma multiforme
Hayward/Fremont - Malignant astrocytoma (Grade III)

Irvine (University of California Irvine) - Glioblastoma multiforme
Long Beach - Glioblastoma multiforme (6)
Monterey Park (Garfield Hospital) - Glioblastoma multiforme
Monterey (Monterey Peninsula Pathologists) - Glioblastoma multiforme
Mountain View (El Camino Pathology Group) - Glioblastoma multiforme
Oakland (Kaiser Permanente) - Glioblastoma (4)
Sacramento (UC Davis Medical Center) - Oligo and astrocytoma, high grade vs. glioblastoma multiforme
San Diego (Naval Medical Center) - Glioblastoma multiforme
San Francisco (SF General Hospital) - Oligodendroglioma
Santa Rosa (Santa Rosa Memorial Hospital) - Glioblastoma multiforme (3)
Ventura - Glioblastoma multiforme
Arizona (Maryvale Medical Center) - Glioblastoma, WHO Grade IV
Arkansas University of Arkansas Medical Center) - Glioblastoma multiforme
Colorado, Evergreen) - Anaplastic astrocytoma
Colorado (Lutheran Medical Center) - Anaplastic oligodendroglioma
Florida (Baptist Hospital) - Glioblastoma multiforme (5)
Florida (Winter Haven Hospital) - Astrocytoma
Illinois, Burr Ridge) - Psammomatous meningioma
Illinois (Evanston Hospital) - Glioblastoma multiforme
Illinois (Northwestern Memorial Hospital) - Glioblastoma multiforme
Indiana (Howard Community Hospital) - Grade III, astrocytoma
Louisiana (Louisiana State University Medical Center) - Glioblastoma multiforme
Maryland (University of Maryland) - Anaplastic ependymoma vs. papillary glioneuronal tumor
Maryland (Johns Hopkins Hospital Residents) - Glioblastoma multiforme
Massachusetts (Berkshire Medical Center) - Glioblastoma multiforme
Massachusetts (New England Medical Center) - Ependymoma
Michigan, Kalamazoo) - Glioblastoma multiforme
Michigan (Oakwood Hospital) - Glioblastoma multiforme
Michigan (St. Joseph Mercy Hospital) - Glioblastoma multiforme
Missouri (Truman Medical Center) - Glioblastoma multiforme
Nebraska (Creighton University School of Medicine Residents) - Glioblastoma multiforme
New York (Long Island Jewish Medical Center) - Glioblastoma
New York (Nassau University Medical Center) - Glioblastoma multiforme
New York (New York Presbyterian Residents) - Glioblastoma multiforme (WHO Grade IV)
New York (Stony Brook University Hospital Residents) - Glioblastoma multiforme
New York (Westchester Medical Center) - Glioblastoma multiforme (GBM)
North Carolina (Mountain Area Pathology) - Glioblastoma multiforme
Ohio (Medical College of Ohio) - Glioblastoma multiforme
Ohio (McCullough Hyde Memorial Hospital) - Anaplastic oligodendroglioma
Pennsylvania (Lehigh Valley Hospital) - Glioblastoma multiforme (2)
Pennsylvania (Mt. Nittany Medical Center) - Glioblastoma multiforme, temporal lobe
Pennsylvania (Pennsylvania Hospital Residents) - Glioblastoma multiforme (2)
Puerto Rico (University of Puerto Rico) - Glioblastoma multiforme
Qatar (Hamad Medical Corporation) - Glioblastoma multiforme
Texas, Houston - Ependymoma
Texas, Lubbock - Glioblastoma multiforme
Texas (Pro Path Associates) - Glioblastoma multiforme (2)
Texas (Scott & White Memorial Hospital) - Glioblastoma multiforme
West Virginia (Greenbrier Valley Medical Center) - Glioblastoma multiforme
Wisconsin (Meriter Hospital) - Grade IV, astrocytoma
Wisconsin (St. Vincent Hospital) - Glioblastoma
Australia (North Queensland Pathology) - Glioblastoma multiforme
Australia (Royal Prince Alfred Hospital) - Anaplastic ependymoma
Canada (Foothills Medical Center) - Glioblastoma multiforme
Canada (Woodstock General Hospital) - Astrocytoma
Brazil (UNIFESP/EPM) - Glioblastoma (2)
Hong Kong (Hong Kong Baptist Hospital) - Glioblastoma
Jamaica (University Hospital of West Indies) - Glioblastoma multiforme, small cell variant
Netherlands, Amsterdam - Astrocytoma
Saudi Arabia (King Khalid University) - Glioblastoma multiforme

Case 8 - Diagnosis:

Glioblastoma multiforme, temporal lobe
T-X2000, M-94403

Case 8 – References:

Shi R, Shi T, Karemen TJ, Horvath S, et al. Gene Expression Profiling Identifies Molecular Subtypes of Gliomas. *Oncogene* 2003; 22(31):4918-4923.

Barnholtz-Sloan JS, Sloan AE, Schwartz AG, et al. Racial Differences in Survival After Diagnosis with Primary Malignant Brain Tumor. *Cancer* 2003; 98(3):603-609.

Burger PC and Green SB. Patient Age, Histologic Features and Length of Survival in Patients with Glioblastoma Multiforme. *Cancer* 1987; 59(9):1617-1625.

Burger PC, Vogel FS, Green SB, et al. Glioblastoma Multiforme and Anaplastic Astrocytoma. Pathologic Criteria and Prognostic Implications. *Cancer* 1985; 56(5):1106-1111.

Coons SW and Johnson PC. Regional Heterogeneity in the Proliferative Activity of Human Gliomas as Measured by Ki-67 Labeling Index. *J Neuropathol Exp Neurol* 1993; 52(6):609-618.

Dolman CL. Lymph Node Metastasis as First Manifestation of Glioblastoma. Case Report. *J Neurosurg* 1974; 41(5):607-609.

Case No. 9, Accession No. 29853 October 2004

Alameda (Alameda County Medical Center - Invasive meningioma
Baldwin Park (Kaiser Permanente) - Meningioma, meningothelial type (1); Meningioma (2)
Glendale - Meningioma
Hayward/Fremont - Meningioma
Irvine (University of California Irvine) - Meningioma with psammoma bodies
Long Beach - Meningioma (6)
Monterey Park (Garfield Hospital) - Meningioma
Monterey (Monterey Peninsula Pathologists) - Meningioma
Mountain View (El Camino Pathology Group) - Meninginoma
Oakland (Kaiser Permanente) - Meningioma (4)
Sacramento (UC Davis Medical Center) - Meningioma
San Diego (Naval Medical Center) - Meningioma, Grade I (WHO)
San Francisco (SF General Hospital) - Meningioma
Santa Rosa (Santa Rosa Memorial Hospital) - Meningioma (3)
Ventura - Meningioma
Arizona (Maryvale Medical Center) - Atypical meningioma, WHO Grade II
Arkansas University of Arkansas Medical Center) - Meningioma
Colorado, Evergreen) - Transitional meningioma
Colorado (Lutheran Medical Center) - Meningioma
Florida (Baptist Hospital) - Fibrous type meningioma (1); Meningioma (4)
Florida (Winter Haven Hospital) - Meningioma
Illinois, Burr Ridge) - Chondrosarcoma
Illinois (Evanston Hospital) - Meningioma
Illinois (Northwestern Memorial Hospital) - Meningioma
Indiana (Howard Community Hospital) - Meningioma
Louisiana (Louisiana State University Medical Center) - Lipidized meningioma
Maryland (University of Maryland) - Transitional meningioma
Maryland (Johns Hopkins Hospital Residents) - Meningioma
Massachusetts (Berkshire Medical Center) - Meningioma
Massachusetts (New England Medical Center) - Meningioma
Michigan, Kalamazoo) - Plexiform meningioma
Michigan (Oakwood Hospital) - Meningioma
Michigan (St. Joseph Mercy Hospital) - Meningioma
Missouri (Truman Medical Center) - Meningioma
Nebraska (Creighton University School of Medicine Residents) - Meningioma
New York (Long Island Jewish Medical Center) - Meningioma
New York (Nassau University Medical Center) - Meningioma, fibroblastic
New York (New York Presbyterian Residents) - Meningioma
New York (Stony Brook University Hospital Residents) - Meningioma
New York (Westchester Medical Center) - Meningioma

North Carolina (Mountain Area Pathology) - Meningioma (3)
Ohio (Medical College of Ohio) - Meningioma
Ohio (McCullough Hyde Memorial Hospital) - Meningioma
Pennsylvania (Lehigh Valley Hospital) - Meningioma (2)
Pennsylvania (Mt. Nittany Medical Center) - Metaplastic meningioma, intracranial
Pennsylvania (Pennsylvania Hospital Residents) - Metaplastic lipomatous meningioma (2)
Puerto Rico (University of Puerto Rico) - Meningioma
Qatar (Hamad Medical Corporation) - Meningioma
Texas, Houston - Meningioma, syncytial variant
Texas, Lubbock - Meningiotheliomatous meningioma
Texas (Pro Path Associates) - Meningioma (2)
Texas (Scott & White Memorial Hospital) - Meningioma
West Virginia (Greenbrier Valley Medical Center) - Fibrous meningioma
Wisconsin (Meriter Hospital) - Atypical meningioma
Wisconsin (St. Vincent Hospital) - Meningioma
Australia (North Queensland Pathology) - Meningioma
Australia (Royal Prince Alfred Hospital) - Metaplastic meningioma (Grade I)
Canada (Foothills Medical Center) - Lipomatous meningioma
Canada (Woodstock General Hospital) - Meningioma
Brazil (UNIFESP/EPM) - Meningioma, WHO Grade I (2)
Hong Kong (Hong Kong Baptist Hospital) - Lipomeningioma
Jamaica (University Hospital of West Indies) - Meningioma, transitional type
Netherlands, Amsterdam - Meningothelial meningioma
Saudi Arabia (King Khalid University) - Meningioma, meningiothelial type

Case 9 - Diagnosis:

Meningioma with lipomatosis metaplasia
T-X2000, M-95301

Case 9 – References:

Atlas of Tumor Pathology Third Series Fascicle 10. Tumors of the Central Nervous System. Peter Burger, M.D./Bernd Scheithauer, M.D. Armed Forces Institute of Pathology, Washington DC 1999; 259-286.

See References on Case #4

Case No. 10, Accession No. 29098 October 2004

Alameda (Alameda County Medical Center - Chondrosarcoma
Baldwin Park (Kaiser Permanente) - Chondrosarcoma (3)
Glendale - Chondrosarcoma
Irvine (University of California Irvine) - Chondrosarcoma
Long Beach - Chondrosarcoma (6)
Monterey Park (Garfield Hospital) - Chondrosarcoma
Monterey (Monterey Peninsula Pathologists) - Chondrosarcoma, low grade
Mountain View (El Camino Pathology Group) - Chondrosarcoma
Oakland (Kaiser Permanente) - Chondrosarcoma (4)
Sacramento (UC Davis Medical Center) - Chondrosarcoma, low grade (I-II)
San Diego (Naval Medical Center) - Chondrosarcoma
San Francisco (SF General Hospital) - Chondrosarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Chondrosarcoma (3)
Ventura - Chondrosarcoma
Arizona (Maryvale Medical Center) - Chondrosarcoma, low grade (I-II)
Arkansas University of Arkansas Medical Center) - Chondrosarcoma
Colorado, Evergreen) - Chondrosarcoma
Colorado (Lutheran Medical Center) - Chondrosarcoma
Florida (Baptist Hospital) - Chondrosarcoma (3); Chondroblastic osteosarcoma (1); Osteogenic sarcoma (1)
Florida (Winter Haven Hospital) - Chondroma
Illinois, Burr Ridge) - Astrocytoma, Grade III
Illinois (Evanston Hospital) - Chondrosarcoma
Illinois (Northwestern Memorial Hospital) - Chondrosarcoma
Indiana (Howard Community Hospital) - Chondrosarcoma

Louisiana (Louisiana State University Medical Center) - Chondrosarcoma
Maryland (University of Maryland) - Chondrosarcoma
Maryland (Johns Hopkins Hospital Residents) - Chondrosarcoma
Massachusetts (Berkshire Medical Center) - Mesenchymal chondrosarcoma
Massachusetts (New England Medical Center) - Chondroma
Michigan, Kalamazoo) - Chondrosarcoma
Michigan (Oakwood Hospital) - Gliosarcoma
Michigan (St. Joseph Mercy Hospital) - Chondrosarcoma
Missouri (Truman Medical Center) - Mesenchymal chondrosarcoma (extraosseous)
Nebraska (Creighton University School of Medicine Residents) - Chordoma
New York (Long Island Jewish Medical Center) - Chondrosarcoma
New York (Nassau University Medical Center) - Low grade chondrosarcoma
New York (New York Presbyterian Residents) - Chondrosarcoma
New York (Stony Brook University Hospital Residents) - Chondrosarcoma
New York (Westchester Medical Center) - Chondrosarcoma
North Carolina (Mountain Area Pathology) - Chondrosarcoma (3)
Ohio (Medical College of Ohio) - Chondrosarcoma
Ohio (McCullough Hyde Memorial Hospital) - Chondrosarcoma
Pennsylvania (Lehigh Valley Hospital) - Chondrosarcoma (2)
Pennsylvania (Mt. Nittany Medical Center) - Chondrosarcoma, cranium
Pennsylvania (Pennsylvania Hospital Residents) - Mesenchymal chondrosarcoma (2)
Puerto Rico (University of Puerto Rico) - Chondrosarcoma, Grade I
Qatar (Hamad Medical Corporation) - Chondrosarcoma
Texas, Houston - Chondroma
Texas, Lubbock - Chondrosarcoma
Texas (Pro Path Associates) - Chondrosarcoma (2)
Texas (Scott & White Memorial Hospital) - Chondrosarcoma
West Virginia (Greenbrier Valley Medical Center) - Chondroma
Wisconsin (Meriter Hospital) - Chondroid neoplasm
Wisconsin (St. Vincent Hospital) - Chondroblastic osteosarcoma (vs. chondrosarcoma) (1)
Australia (North Queensland Pathology) - Chondroma
Australia (Royal Prince Alfred Hospital) - Chondroblastoma
Canada (Foothills Medical Center) - Chondrosarcoma
Canada (Woodstock General Hospital) - Chondrosarcoma
Brazil (UNIFESP/EPM) - Mesenchymal chondrosarcoma (2)
Hong Kong (Hong Kong Baptist Hospital) - Chondroblastoma
Jamaica (University Hospital of West Indies) - Chondrosarcoma
Netherlands, Amsterdam - Chondrosarcoma
Saudi Arabia (King Khalid University) - Chondrosarcoma

Case 10 - Diagnosis:

Low grade chondrosarcoma, cranium and infratemporal fossa
T-Y0151, M-92203

Case 10 - References:

Sala F, Talacchi A, Beltramello A, et al. Intracranial Myxoid Chondrosarcoma with Early Intradural Growth. *J Neurosurg Sci* 1998; 42(3):159-163.

Reid CB, Fagan PA and Turner J. Low-Grade Myxoid Chondrosarcoma of the Temporal Bone. Differential Diagnosis and Report of Two Cases. *Am J Otol* 1994; 15(3):419-422.

Korten AG, ter Berg HJ, Spincemaille GH, et al. Intracranial Chondrosarcoma. Review of the Literature and Report of 15 Cases. *J Neurol Neurosurg Psychiatry* 1998; 65(1):88-92.

Oikawa H, Satoh T, Masuda T, et al. Intrafcranial Low-Grade Chondrosarcoma with Hyperostosis of the Skull. A Case Report. *J Neurooncol* 2000; 49(3):249-254.

Kubota T, Hayashi M and Yamamoto, S. Primary Intracranial Mesenchymal Chondrosarcoma. Case Report with Review of the Literature. *Neurosurg* 1982; 10(1):105-110.