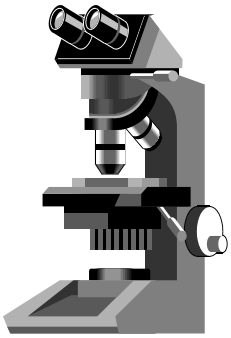
CALIFORNIA
TUMOR TISSUE REGISTRY

GENERAL PATHOLOGY

Minutes – Subscription B

May 2001



SUGGESTED READING (General Topics from Recent Literature):

Nephrogenic Adenoma of the Urinary Tract. A Review of the Microscopic Appearance of 80 Cases with Emphasis on Unusual Features. Oliva E and Young RH. *Mod Pathol* 1995; 8(7):722-730.

History of the Cytomegalovirus. Riley HD, Jr. *Southern Med* J 1997; 90(2):184-190.

Open Laparoscopy. 29-Year Experience. Hasson HM, Rotman C, et al. *Obstet Gynecol* 2000; 96(5):763-766.

Inflammation and Cancer. Back to Virchow? Balkwill F and Mantovani A. *The Lancet* 2001; 357:539-545.

Molecular Detection of Micrometastases and Circulating Tumor Cells in Solid Tumors. *Clin Cancer Research* 1999; 5:1950-1959.

Hand Hygiene and Patient Care. Pursuing the Semmelweis Legacy. Pittet D and Boyce JM. *The Lancet* 2001; April:9-20.

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FILE DIAGNOSES

CTTR Subscription B May 2001

Case 1:

Intra-Abdominal (Mesenteric) Fibromatosis
T-Y4100, M-76100

Case 2:

Paraganglioma, Peri-Aortic
T-Y4100, M-42050

Case 3:

Synovial Sarcoma (Biphasic), Abdominal Wall
T-Y4100, M-90433

Case 4:

Liposarcoma, Myxoid/Round Cell, Suprapubic Region
T-Y4242, M-88533

Case 5:

High Grade Chondroblastic Osteosarcoma, Proximal Tibia
T-11730, M-91813

Case 6:

Extra-Skeletal Myxoid Chondrosarcoma, Thigh
T-Y9100, M-92203

Case 7:

Adrenal Cortical Neoplasm, Indeterminant as to Future Behavior
T-93000, M-81400

Case 8:

Classic Seminoma, Testis
T-78000, M-90613

Case 9:

Malignant Mesothelioma, Testis
T-07000, M-95903

Case 10:

Follicular Lymphoma, Spleen
T-07000, M-95903

Case No. 1, Accession No. 29067 May 2001

Glendale - Low-grade liposarcoma
Modesto - Fibromatosis
Mountain View - Desmoid tumor (fibromatosis)
Orange (UCI Medical Center Residents) - Fibromatosis
Sacramento (UCD Medical Center) - Desmoid tumor
Alabama (Cunningham Pathology) - Mesenteric fibromatosis
Arkansas (UAMS) - Mesenteric fibromatosis
Colorado (Unipath) - Fibromatosis (1); GIST (1)
Florida (Munroe Regional Medical Center) - Desmoid tumor
Florida (Winter Haven Hospital) - Fibromatosis (3)
Illinois (Chicago) - Desmoid tumor
Illinois (Marion Memorial Hospital) - Subserosal fibroma (benign fibrous tumor)
Indiana (Fort Wayne) - Desmoid fibromatosis, abdomen-intra (? associated with Gardner's)
Maryland (National Institute Of Health Residents) - Fibromatosis, desmoid tumor
Maryland (National Naval Medical Center) - Mesenteric fibromatosis (sclerosing mediastinitis) (10)
Maryland (University of Maryland) - Solitary fibrous tumor
Massachusetts (Providence Pathology Associates) - Solitary fibrous tumor, abdominal cavity
Michigan (St. Joseph's Mercy Hospital) - Fibromatosis
Michigan (St. Mary's Mercy Medical Center, Grand Rapids) - Perineural cell tumor (1); Fibromatosis (1)
Mississippi (University of Mississippi, Elderpath Group) - Aggressive angiomyxoma
Missouri, Joplin - Desmoid
Nebraska (Good Samaritan Hospital) - Neurofibroma
New York (East Meadow) - Nodular fibromatosis, mesentery
Ohio (Columbus) - Fibromatosis
South Carolina (Spartanburg Regional Medical Center) - Fibromatosis
Texas (Lubbock) - Angiofibroma
Texas (Propath Associates) - Desmoid tumor (2)
Texas (Shannon Clinic Pathology) - Mesenteric fibromatosis
Utah (APA) - Mesenteric fibromatosis
Washington, DC - Fibromatosis
Canada (CUSE, Site Fleurimont) - Well-differentiated liposarcoma, sclerosing type
Canada (Foothills Hospital, Calgary) - Abdominal fibromatosis
China (Sir Run Run Shaw Hospital) - Fibromatosis
Japan (Defense Hospital, Sapporo) - Intra-abdominal desmoid
Japan (Hamamatsu University School of Medicine) - Desmoid fibromatosis
Puerto Rico (Universidad de Puerto Rico) - Atypical lipomatous tumor with sclerosis pattern
Saudi Arabia (King Khalid University Hospital) - Intra-abdominal desmoid tumor
Singapore (Singapore General Hospital) - Fibromatosis
Spain (POVISA, Vigo) - GANT

Case 1 - Diagnosis:

Intra-Abdominal (Mesenteric) Fibromatosis

T-Y4100, M-76100

Case 1 - References:

Burke AP, Sobin LH and Shekitka KM. Mesenteric Fibromatosis. A Follow-Up Study. *Arch Pathol Lab Med* 1990; 114(8):832-835.

Olivier Gomez CM and Carballido Rodriguez JA. Obstructive Uropathy in Gardner's Syndrome. Intra-Abdominal Desmoid Tumor. *Actas Urol Esp* 1989; 13(5):329-338.

Forte MD and Brant WE. Spontaneous Isolated Mesenteric Fibromatosis. Report of a Case. *Dis Colon Rectum* 1988; 31(4):315-317.

Burke AP, Sobin LH, 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.

Eagel BA, Zentler-Munro P, et al. Mesenteric Desmoid Tumours in Gardner's Syndrome. Review of Medical Treatment. *Postgrad Med J* 1989; 65(765):497-501.

Case No. 2, Accession No. 29060 May 2001

Glendale - Paraganglioma
Modesto - Extra-adrenal paraganglioma
Mountain View - Paraganglioma
Orange (UCI Medical Center Residents) - Paraganglioma
Sacramento (UCD Medical Center) - Paraganglioma
Alabama (Cunningham Pathology) - Retroperitoneal paraganglioma
Arkansas (UAMS) - Paraganglioma of Zuckerkandl's body
Colorado (Unipath) - Paraganglioma (confirm with S-100) (2)
Florida (Munroe Regional Medical Center) - Paraganglioma
Florida (Winter Haven Hospital) - Paraganglioma (2); Pheochromocytoma (1)
Illinois (Chicago) - Paragangioma
Illinois (Marion Memorial Hospital) - Paraganglioma
Indiana (Fort Wayne) - Extra-adrenal pheochromocytoma, retroperitoneum (paraganglioma)
Maryland (National Institute Of Health Residents) - Paraganglioma
Maryland (National Naval Medical Center) - Paraganglioma (10)
Maryland (University of Maryland) - Paraganglioma
Massachusetts (Providence Pathology Associates) - Extra-adrenal pheochromocytoma
Michigan (St. Joseph's Mercy Hospital) - Paraganglioma (5)
Michigan (St. Mary's Mercy Medical Center, Grand Rapids) - Paraganglioma (2)
Mississippi (University of Mississippi, Elderpath Group) - Paraganglioma
Missouri, Joplin - Pheochromocytoma
Nebraska (Good Samaritan Hospital) - Paraganglioma
New York (East Meadow) - Paraganglioma, periaortic tissue
Ohio (Columbus) - Paraganglioma
South Carolina (Spartanburg Regional Medical Center) - Extra-adrenal pheochromocytoma
Texas (Lubbock) - Pheochromocytoma
Texas (Propath Associates) - Paraganglioma (2)
Texas (Shannon Clinic Pathology) - Extra-adrenal paraganglioma
Utah (APA) - Extra-adrenal pheochromocytoma (paraganglioma)
Washington, DC - Pheochromocytoma, extra-adrenal
Canada (CUSE, Site Fleurimont) - Paraganglioma
Canada (Foothills Hospital, Calgary) - Extra-adrenal, intra-abdominal paraganglioma
China (Sir Run Run Shaw Hospital) - Paraganglioma
Japan (Defense Hospital, Sapporo) - Pheochromocytoma
Japan (Hamamatsu University School of Medicine) - Paraganglioma
Puerto Rico (Universidad de Puerto Rico) - Paraganglioma
Saudi Arabia (King Khalid University Hospital) - Paraganglioma (pheochromocytoma)
Singapore (Singapore General Hospital) - Paraganglioma
Spain (POVISA, Vigo) - Paraganglioma

Case 2 - Diagnosis:
Paraganglioma, Peri-aortic
T-Y4100, M-42050

Case 2 - References:

Harach HR, Wheatley T, et al. Pheochromocytoma of the Organ of Zuckerkandl Invading Inferior Vena Cava. *Histopathol* 1996; 28(6):556-559.

Lack ER. Tumors of the Adrenal Gland and Extra-Adrenal Paraganglia. *Atlas of Tumor Pathology*, Third Series Fascicle, Washington, DC. Armed Forces Institute of Pathology 1997; 261-267.
Chetty R, Pillary P, et al. Cytokeratin Expression in Adrenal Phaeochromocytomas and Extra-Adrenal Paragangliomas. *J Clin Pathol* 1998; 51(6):477-478.
Lamovec J, Frkovic-Grazio S, et al. Nonsporadic Cases and Unusual Morphological Features in Pheochromocytoma and Paraganglioma. *Arch Pathol Lab Med* 1998; 122(1):63-68.
Castanon J, Blanco S, et al. Aortopulmonary Paraganglioma. An Overview After Five Years. *J Thorac Cardiovasc Surg* 1995; 109(2):398.

Case No. 3, Accession No. 29058 May 2001

Glendale - Synovial sarcoma
Modesto - Biphasic synovial sarcoma
Mountain View - Synovial sarcoma
Orange (UCI Medical Center Residents) - Biphasic synovial sarcoma
Sacramento (UCD Medical Center) - Synovial sarcoma (biphasic type)
Alabama (Cunningham Pathology) - Synovial sarcoma
Arkansas (UAMS) - Synovial sarcoma
Colorado (Unipath) - Synovial sarcoma (1); PNET
Florida (Munroe Regional Medical Center) - Synovial sarcoma
Florida (Winter Haven Hospital) - Synovial sarcoma (2); Biphasic synovial sarcoma (1)
Illinois (Chicago) - Synovial sarcoma
Illinois (Marion Memorial Hospital) - Poorly differentiated synovial sarcoma
Indiana (Fort Wayne) - Synovial sarcoma, abdominal wall
Maryland (National Institute Of Health Residents) - Synovial sarcoma, biphasic
Maryland (National Naval Medical Center) - Synovial sarcoma
Maryland (University of Maryland) - Synovial sarcoma
Massachusetts (Providence Pathology Associates) - Intra-abdominal small cell tumor
Michigan (St. Joseph's Mercy Hospital) - Synovial sarcoma (4); Small round blue cell tumor (1)
Michigan (St. Mary's Mercy Medical Center, Grand Rapids) - Synovial sarcoma (2)
Mississippi (University of Mississippi, Elderpath Group) - Synovial sarcoma
Missouri, Joplin - Leiomyosarcoma
Nebraska (Good Samaritan Hospital) - Synovial sarcoma
New York (East Meadow) - Primitive neuroendocrine tumor (PNET), abdominal wall
Ohio (Columbus) - Synovial sarcoma
South Carolina (Spartanburg Regional Medical Center) - Synovial sarcoma
Texas (Lubbock) - Synoviosarcoma
Texas (Propath Associates) - Synoviosarcoma (1); Synovioma (1)
Texas (Shannon Clinic Pathology) - Synovial sarcoma
Utah (APA) - Synovial sarcoma
Washington, DC - Synovial sarcoma
Canada (CUSE, Site Fleurimont) - PNET
Canada (Foothills Hospital, Calgary) - Synovial sarcoma, biphasic
China (Sir Run Run Shaw Hospital) - Synovial sarcoma of abdominal wall
Japan (Defense Hospital, Sapporo) - Synovial sarcoma
Japan (Hamamatsu University School of Medicine) - Synovial sarcoma, biphasic
Puerto Rico (Universidad de Puerto Rico) - Synovial sarcoma
Saudi Arabia (King Khalid University Hospital) - Synovial sarcoma, abdominal wall
Singapore (Singapore General Hospital) - Synovial sarcoma
Spain (POVISA, Vigo) - Synovial sarcoma

Case 3 - Diagnosis:

Synovial Sarcoma (Biphasic), Abdominal Wall

T-Y4100, M-90433

Case 3 - References:

Folpe AL, Schmidt RA, et al. Poorly Differentiated Synovial Sarcoma. Immunohistochemical Distinction from Primitive Neuroectodermal Tumors and High-Grade Malignant Peripheral Nerve Sheath Tumors. *Am J Surg Pathol* 1998; 22(6):673-682.

Machen SK, Fisher C, Gautam RS, et al. Utility of Cytokeratin Subsets for Distinguishing Poorly Differentiated Synovial Sarcoma from Peripheral Primitive Neuroectodermal Tumour. *Histopathol* 1998; 33(6):501-507.

Hasegawa T, Yokoyama R, et al. Prognostic Significance of Histologic Grade and Nuclear Expression of B-Catenin in Synovial Sarcoma. *Hum Pathol* 2001; 32(3):257-263.

Andrassy RJ, Okcu MF, et al. Synovial Sarcoma in Children. Surgical Lesions from a Single Institution and Review of the Literature. *J Am Surg* 2001; 192(3):305-313.

Case No. 4, Accession No. 28954 May 2001

Glendale - Myxoid epithelioid leiomyosarcoma vs. GIST

Modesto - Myxoid liposarcoma

Mountain View - Myxoid liposarcoma vs. extraskeletal myxoid chondrosarcoma

Orange (UCI Medical Center Residents) - Myxoid liposarcoma

Sacramento (UCD Medical Center) - Chondroma vs. chondrosarcoma

Alabama (Cunningham Pathology) - Extra-skeletal mesenchymal chondrosarcoma

Arkansas (UAMS) - Round cell liposarcoma

Colorado (Unipath) - Angiomyofibroblastoma vs. cellular angiofibroma (1); Mixed tumor (1)

Florida (Munroe Regional Medical Center) - Myxoid leiomyoma vs. leiomyosarcoma

Florida (Winter Haven Hospital) - Myxoid chondrosarcoma (2); Myxoid liposarcoma (1)

Illinois (Chicago) - Epithelioid hemangioendothelioma

Illinois (Marion Memorial Hospital) - Stromal sarcoma with myxoid change, favor round cell liposarcoma

Indiana (Fort Wayne) - Myxoid sarcoma, suprapubic region, favor mixed myxoid/round cell liposarcoma

Maryland (National Institute Of Health Residents) - Round cell liposarcoma

Maryland (National Naval Medical Center) - Myxoid liposarcoma (7); Low grade myxoid neoplasm (3)

Maryland (University of Maryland) - Chordoma

Massachusetts (Providence Pathology Associates) - Nodular fasciitis

Michigan (St. Joseph's Mercy Hospital) - Myxoid chondrosarcoma (4); Myxoid leiomyosarcoma (1)

Michigan (St. Mary's Mercy Medical Center, Grand Rapids) - Chondrosarcoma (2)

Mississippi (University of Mississippi, Elderpath Group) - Extra-skeletal myxoid chondrosarcoma (so-called "chondroid tumor")

Missouri, Joplin - Myxoid liposarcoma

Nebraska (Good Samaritan Hospital) - Round cell liposarcoma

New York (East Meadow) - Soft tissue chondrosarcoma, suprapubic region

Ohio (Columbus) - Liposarcoma

Texas (Lubbock) - Myxoid liposarcoma

Texas (Propath Associates) - Angiomyofibroblastoma (2)

Texas (Shannon Clinic Pathology) - Extraskeletal myxoid chondrosarcoma

Utah (APA) - Myxoid liposarcoma

Washington, DC - Myxoid liposarcoma

Canada (CUSE, Site Fleurimont) - Sarcoma ???

Canada (Foothills Hospital, Calgary) - Liposarcoma myxoid and round cell type

China (Sir Run Run Shaw Hospital) - Angiomyofibroblastoma

Japan (Defense Hospital, Sapporo) - Chondrosarcoma

Japan (Hamamatsu University School of Medicine) - Myxofibrosarcoma

Puerto Rico (Universidad de Puerto Rico) - Myxolipoma vs. myxoid liposarcoma

Saudi Arabia (King Khalid University Hospital) - Chondrosarcoma, symphysis pubis

Singapore (Singapore General Hospital) - Myxoid tumor favoring myxoid chondrosarcoma

Spain (POVISA, Vigo) - Malignant rhabdoid tumor vs. epithelioid sarcoma

Case 4 - Diagnosis:

Liposarcoma, Myxoid/Round Cell, Suprapubic Region

T-Y4242, M-88533

Case 4 - References:

Fletcher CD, Akerman M, Dal Cin P, et al. Correlation Between Clinicopathologic Features and Karyotype in Lipomatous Tumors. A Report of 178 Cases from the Chromosomes and Morphology (CHAMP) Collaborative Study Group. *Am J Pathol* 1996; 148(2):623-630.

Evans HL. Liposarcoma. A Study of 55 Cases with a Reassessment of Its Classification. *Am J Surg Path*ol 1979; 3(6):507-523.

Jaeger V, Schneider-Stock R, et al. Myxoid Liposarcoma with Transition to Round-Cell Lesion-Cell Cycle Regulator Genes and Telomerase Activity Characterizing Tumor Progression. A Case Report. *Hum Pathol* 1999; 30(12):1515-1519.

Dei Tos AP, Piccini S, et al. Molecular Aberrations of the G1-S Checkpoint in Myxoid and Round Cell Liposarcoma. *Am J Pathol* 1997; 151(6):1531-1539.

Gibas Z, Miettinen M, et al. Cytogenetic and Immunohistochemical Profile of Myxoid Liposarcoma. *Am J Clin Pathol* 1995; 103(1):20-26.

Knight JC, Renwick PJ, et al. Translocation t(12; 16)(q13; p11) in Myxoid Liposarcoma and Round Cell Liposarcoma: Molecular and Cytogenetic Analysis. *Cancer Res* 1995; 55(1):24-27.

Case No. 5, Accession No. 28999 May 2001

Glendale - Osteogenic sarcoma
Modesto - Osteosarcoma
Mountain View - Osteogenic sarcoma
Orange (UCI Medical Center Residents) - Osteosarcoma
Sacramento (UCD Medical Center) - Osteosarcoma
Alabama (Cunningham Pathology) - Osteosarcoma
Arkansas (UAMS) - Osteosarcoma, conventional type
Colorado (Unipath) - Osteosarcoma (2)
Florida (Munroe Regional Medical Center) - Osteogenic sarcoma
Florida (Winter Haven Hospital) - Osteosarcoma (2); Osteogenic sarcoma (1)
Illinois (Chicago) - Osteogenic sarcoma (1)
Illinois (Marion Memorial Hospital) - Osteogenic sarcoma
Indiana (Fort Wayne) - Osteogenic sarcoma, left proximal tibia
Maryland (National Institute Of Health Residents) - Osteosarcoma (possibly arising in Paget's Disease
Maryland (National Naval Medical Center) - Osteosarcoma
Maryland (University of Maryland) - Osteosarcoma
Massachusetts (Providence Pathology Associates) - Osteogenic sarcoma
Michigan (St. Joseph's Mercy Hospital) - Osteosarcoma (5)
Michigan (St. Mary's Mercy Medical Center, Grand Rapids) - Osteogenic sarcoma (1); Osteosarcoma (1)
Mississippi (University of Mississippi, Elderpath Group) - Osteogenic sarcoma
Missouri, Joplin - Osteosarcoma
Nebraska (Good Samaritan Hospital) - Osteosarcoma
New York (East Meadow) - Conventional central osteosarcoma, tibia
Ohio (Columbus) - Osteosarcoma
South Carolina (Spartanburg Regional Medical Center) - Osteosarcoma
Texas (Lubbock) - Osteosarcoma
Texas (Propath Associates) - Telangiectatic osteogenic sarcoma (2)
Texas (Shannon Clinic Pathology) - Osteosarcoma
Utah (APA) - Osteosarcoma
Washington, DC - Osteosarcoma
Canada (CUSE, Site Fleurimont) - Osteosarcoma
Canada (Foothills Hospital, Calgary) - Osteosarcoma

China (Sir Run Run Shaw Hospital) - Osteosarcoma arising in Paget's disease
Japan (Defense Hospital, Sapporo) - Osteosarcoma
Japan (Hamamatsu University School of Medicine) - Osteosarcoma
Puerto Rico (Universidad de Puerto Rico) - Osteosarcoma, well-differentiated
Saudi Arabia (King Khalid University Hospital) - High grade osteosarcoma, tibia
Singapore (Singapore General Hospital) - Osteosarcoma
Spain (POVISA, Vigo) - Osteosarcoma

Case 5 - Diagnosis:
High Grade Chondroblastic Osteosarcoma, Proximal Tibia
T-11730, M-91813

Consultation: Andrew Huvos, Memorial Sloan Kettering Cancer Center: "High Grade Osteosarcoma, Chondroblastic Type".

Case 5 - References:
van der Bijl AE, Taminiau AH, et al. Accuracy of the Jamshidi Trocar Biopsy in the Diagnosis of Bone Tumors. *Clin Orthop* 1997; 334:233-243.
Dahlin DC and Uni KK. Osteosarcoma of Bone and Its Important Recognizable Varieties. *Am J Surg Pathol* 1977; 1(1):61-72.
Hasegawa T, Hirose T, et al. Immunophenotypic Heterogeneity in Osteosarcomas. *Hum Pathol* 1991; 22(6):583-590.
Ellison DA, Silverman JF, et al. Fine-Needle Aspiration of Chondroblastic Osteosarcoma of the Skull. Report of a Case in an 11-Year-Old Girl. *Diagn Cytopathol* 1996; 14(1):51-55.
Yamamoto T, Matsushita T, et al. Dedifferentiated Liposarcoma with Chondroblastic Osteosarcomatous Dedifferentiation. *Pathol Int* 2000; 50(7):558-561.

Case No. 6, Accession No. 29048 May 2001

Glendale - Myxoid epithelioid leiomyosarcoma vs. extra-skeletal myxoid chondrosarcoma
Modesto - Intramuscular myxoma
Mountain View - Extra-skeletal myxoid chondrosarcoma
Orange (UCI Medical Center Residents) - Extra-skeletal myxoid chondrosarcoma (4); vs. myxoid liposarcoma (4)
Sacramento (UCD Medical Center) - Chondrosarcoma
Alabama (Cunningham Pathology) - Extra-skeletal myxoid chondrosarcoma
Arkansas (UAMS) - Extra-skeletal myxoid chondrosarcoma
Colorado (Unipath) - Myxoid chondrosarcoma (1); Chondrosarcoma (1)
Florida (Munroe Regional Medical Center) - Extra-skeletal myxoid chondrosarcoma
Florida (Winter Haven Hospital) - Myxoid chondrosarcoma (2); Chondrosarcoma (1)
Illinois (Chicago) - Intramuscular myxoma
Illinois (Marion Memorial Hospital) - Sarcoma with myxoid change, favor rhabdomyosarcoma
Indiana (Fort Wayne) - Extra-skeletal myxoid chondrosarcoma, left thigh
Maryland (National Institute Of Health Residents) - Myxoid liposarcoma
Maryland (National Naval Medical Center) - Myxoid chondrosarcoma (extra-skeletal)
Maryland (University of Maryland) - Intramuscular myxoma
Massachusetts (Providence Pathology Associates) - Chondrosarcoma , soft tissue
Michigan (St. Joseph's Mercy Hospital) - Extra-skeletal myxoid chondrosarcoma (5)
Michigan (St. Mary's Mercy Medical Center, Grand Rapids) - Chondrosarcoma (2)
Mississippi (University of Mississippi, Elderpath Group) - Extra-skeletal myxoid chondrosarcoma (so-called "chondroid tumor")
Missouri, Joplin - Chondrosarcoma
Nebraska (Good Samaritan Hospital) - Extra-skeletal chondrosarcoma
New York (East Meadow) - Myxoid chondrosarcoma of soft tissue, thigh
Ohio (Columbus) - Myxoid chondrosarcoma
South Carolina (Spartanburg Regional Medical Center) - Chondrosarcoma
Texas (Lubbock) - Myxoid liposarcoma

Texas (Propath Associates) - Extra-skeletal chondrosarcoma (2)
Texas (Shannon Clinic Pathology) - Extra-skeletal myxoid chondrosarcoma
Utah (APA) - Myxoid chondrosarcoma
Washington, DC - Myxoma
Canada (CUSE, Site Fleurimont) - Round cell liposarcoma
Canada (Foothills Hospital, Calgary) - Myxoid chondrosarcoma
China (Sir Run Run Shaw Hospital) - Myxoma
Japan (Defense Hospital, Sapporo) - Extra-skeletal chondrosarcoma
Japan (Hamamatsu University School of Medicine) - Myxoid liposarcoma
Puerto Rico (Universidad de Puerto Rico) - Myxoid chondrosarcoma
Saudi Arabia (King Khalid University Hospital) - Chondrosarcoma, grade II, left thigh
Singapore (Singapore General Hospital) - Extra-skeletal myxoid chondrosarcoma
Spain (POVISA, Vigo) - Myxoid chondrosarcoma vs. chondroid lipoma

Case 6 - Diagnosis:

Extra-Skeletal Myxoid Chondrosarcoma, Thigh

T-Y9100, M-92203

Case 6 - References:

Meis Kindblom JM, Bergh P, et al. Extraskeletal Myxoid Chondrosarcoma. A Reappraisal of Its Morphologic Spectrum and Prognostic Factors Based on 117 Cases. *Am J Surg Pathol* 1999; 23(6):636-650.
Lucas DR, Fletcher CD, et al. High Grade Extra-Skeletal Myxoid Chondrosarcoma. A High Grade Epithelioid Malignancy. *Histopathol* 1999; 35(3):201-208.
Oliveira AM, et al. Extra-skeletal Myxoid Chondrosarcoma. A Clinicopathologic, Immunohistochemical and Ploidy Analysis of 23 Cases. *Mod Pathol* 2000; 13(8):900-908.
Presant CA, Russell WO, et al. Soft-Tissue and Bone Sarcoma Histopathology Peer Review. The Frequency of Disagreement in Diagnosis and the Need for Second Pathology Opinions. The Southwestern Cancer Study Group Experience. *J Clin Oncol* 1986; 4(11):1658-1661.

Case No. 7, Accession No. 29059 May 2001

Glendale - Cortical adenoma
Modesto - Adrenal cortical adenoma
Mountain View - Adrenal cortical adenoma
Orange (UCI Medical Center Residents) - Cortical adenoma
Sacramento (UCD Medical Center) - Adrenocorticocarcinoma
Alabama (Cunningham Pathology) - Adrenal cortical adenoma
Arkansas (UAMS) - Adrenal cortical adenoma
Colorado (Unipath) - Adrenocortical tumor, probably malignant (1); Adrenocortical adenoma (1)
Florida (Munroe Regional Medical Center) - Adrenal cortical adenoma
Florida (Winter Haven Hospital) - Adrenal cortical adenoma (3)
Illinois (Chicago) - Adrenal cortical adenoma
Illinois (Marion Memorial Hospital) - Adrenal cortical adenoma
Indiana (Fort Wayne) - Adrenal cortical adenoma (Cushing's syndrome), left adrenal
Maryland (National Institute Of Health Residents) - Adrenal cortical neoplasm
Maryland (National Naval Medical Center) - Adrenal cortical adenoma
Maryland (University of Maryland) - Adrenal cortical carcinoma
Massachusetts (Providence Pathology Associates) - Adrenal cortical adenoma
Michigan (St. Joseph's Mercy Hospital) - Adrenal cortical adenoma (5)
Michigan (St. Mary's Mercy Medical Center, Grand Rapids) - Adrenal cortical carcinoma (1); Adrenal cortical adenoma (1)
Mississippi (University of Mississippi, Elderpath Group) - Adrenal cortical carcinoma
Missouri, Joplin - Adrenal adenoma
Nebraska (Good Samaritan Hospital) - Adrenal cortical neoplasm, favor adenoma

New York (East Meadow) - Adrenal cortical adenoma, right adrenal
Ohio (Columbus) - Cortical adenoma
South Carolina (Spartanburg Regional Medical Center) - Adrenal cortical adenoma
Texas (Lubbock) - Cortical adenoma
Texas (Propath Associates) - Adrenal cortical adenoma (2)
Texas (Shannon Clinic Pathology) - Adrenal cortical tumor, possibly carcinoma
Utah (APA) - Adrenal cortical adenoma
Washington, DC - Adrenal cortical adenoma
Canada (CUSE, Site Fleurimont) - Adrenocortical adenoma
Canada (Foothills Hospital, Calgary) - Adrenocortical adenoma
China (Sir Run Run Shaw Hospital) - Cortical adenoma
Japan (Defense Hospital, Sapporo) - Adrenal cortical carcinoma
Japan (Hamamatsu University School of Medicine) - Adrenal cortical adenoma
Puerto Rico (Universidad de Puerto Rico) - Adenoma
Saudi Arabia (King Khalid University Hospital) - Adrenal cortical adenoma, adrenal gland
Singapore (Singapore General Hospital) - Adrenal cortical carcinoma
Spain (POVISA, Vigo) - Adrenal cortical adenoma

Case 7 - Diagnosis:
Adrenal Cortical Neoplasm, Indeterminant as to Future Behavior
T-93000, M-81400

Case 7 - References:
Terzolo M, Boccuzzi A, et al. Immunohistochemical Assessment of Ki-67 in the Differential Diagnosis of Adrenocortical Tumors. *Urol* 2001; 57(1):176-182.
Evans HL and Vassilopoulou-Sellin R. Adrenal Cortical Neoplasms. A Study of 56 Cases. *Am J Clin Pathol* 1996; 105(1):76-86.
Scarpelli M, Montironi R, et al. Distinguishing Cortical Adrenal Gland Adenomas from Carcinomas by their Quantitative Nuclear Features. *Anal Quant Cytol Histol* 1999; 21(2):131-138.
Fogt F, Vargas MP, et al. Utilization of Molecular Genetics in the Differentiation Between Adrenal Cortical Adenomas and Carcinomas. *Hum Pathol* 1998; 29(5):518-521.
Bernini GP, Miccoli P, et al. Sixty Adrenal Masses of Large Dimensions. Hormonal and Morphologic Evaluation. *Urol* 1998; 51(6):920-925.

Case No. 8, Accession No. 29013 May 2001

Glendale - Seminoma
Modesto - Seminoma
Mountain View - Seminoma
Orange (UCI Medical Center Residents) - Seminoma
Sacramento (UCD Medical Center) - Seminoma
Alabama (Cunningham Pathology) - Pleomorphic seminoma
Arkansas (UAMS) - Seminoma, classic type
Colorado (Unipath) - Seminoma (2)
Florida (Munroe Regional Medical Center) - Seminoma
Florida (Winter Haven Hospital) - Seminoma (3)
Illinois (Chicago) - Seminoma
Illinois (Marion Memorial Hospital) - Seminoma, classic type
Indiana (Fort Wayne) - Classic seminoma, right testis
Maryland (National Institute Of Health Residents) - Seminoma
Maryland (National Naval Medical Center) - Seminoma
Maryland (University of Maryland) - Seminoma
Massachusetts (Providence Pathology Associates) - Seminoma testis
Michigan (St. Joseph's Mercy Hospital) - Seminoma (5)

Michigan (St. Mary's Mercy Medical Center, Grand Rapids) - Seminoma (2)
Mississippi (University of Mississippi, Elderpath Group) - Spermatocytic seminoma
Missouri, Joplin - Seminoma
Nebraska (Good Samaritan Hospital) - Seminoma
New York (East Meadow) - Seminoma, right testicle
Ohio (Columbus) - Seminoma
South Carolina (Spartanburg Regional Medical Center) - Seminoma
Texas (Lubbock) - Seminoma
Texas (Propath Associates) - Seminoma (2)
Texas (Shannon Clinic Pathology) - Seminoma
Utah (APA) - Seminoma
Washington, DC - Seminoma, classic
Canada (CUSE, Site Fleurimont) - Seminoma
Canada (Foothills Hospital, Calgary) - Seminoma and intratubular germ cell neoplasia
China (Sir Run Run Shaw Hospital) - Seminoma
Japan (Defense Hospital, Sapporo) - Classic seminoma
Japan (Hamamatsu University School of Medicine) - Seminoma
Puerto Rico (Universidad de Puerto Rico) - Classic type seminoma
Saudi Arabia (King Khalid University Hospital) - Seminoma, testes
Singapore (Singapore General Hospital) - Classic seminoma
Spain (POVISA, Vigo) - Seminoma

Case 8 - Diagnosis:
Classic Seminoma, Testis
T-78000, M-90613

Case 8 - References:

Yavez E, Kapran Y, et al. Fine Needle Aspiration Diagnosis of a Classic-Type Pelvic Seminoma. *Acta Cytol* 1999; 43(6):1196-1198.
Stein M, Steiner M, et al. Testicular Seminoma 20-Year Experience at the Nothern Israel Oncology Center (1968-1988). *Int Urol Nephrol* 1994; 26(4):461-469.
Fujikawa K, Matsui Y, et al. Prognosis of Primary Testicular Seminoma. A Report on 57 New Cases. *Cancer Res* 2000; 60(8):2152-2154.
Cheville JC, Rao S, et al. Cytokeratin Expression in Seminoma of the Human Testis. *Am J Clin Pathol* 2000; 113(4):583-588.

Case No. 9, Accession No. 28997 May 2001

Glendale - Mesothelioma
Modesto - Malignant mesothelioma
Mountain View - Adenomatoid tumor
Orange (UCI Medical Center Residents) - Malignant mesothelioma
Sacramento (UCD Medical Center) - Yolk sac tumor vs. rhabdoid tumor
Alabama (Cunningham Pathology) - Malignant mesothelioma
Arkansas (UAMS) - Paratesticular malignant mesothelioma
Colorado (Unipath) - Adenomatoid tumor (1); Embryonal cell carcinoma (1)
Florida (Munroe Regional Medical Center) - Adenomatoid tumor
Florida (Winter Haven Hospital) - Mesothelioma (2): Adenomatoid tumor (1)
Illinois (Chicago) - Mesothelioma
Illinois (Marion Memorial Hospital) - Malignant mesothelioma, epithelial type
Indiana (Fort Wayne) - Mesothelioma, paratesticular/cord structures
Maryland (National Institute Of Health Residents) - Mesothelioma
Maryland (National Naval Medical Center) - Mesothelioma (7); Adenomatoid tumor (3)
Maryland (University of Maryland) - Malignant mesothelioma

Massachusetts (Providence Pathology Associates) - Mesothelioma, testis
Michigan (St. Joseph's Mercy Hospital) - Mesothelioma (5)
Michigan (St. Mary's Mercy Medical Center, Grand Rapids) - Malignant mesothelioma (1); Mesothelioma (1)
Mississippi (University of Mississippi, Elderpath Group) - Adenomatoid tumor
Missouri, Joplin - Yolk sac carcinoma
Nebraska (Good Samaritan Hospital) - Mesothelioma
New York (East Meadow) - Adenocarcinoma, epididymis
Ohio (Columbus) - Mesothelioma
Texas (Lubbock) - Mesothelioma (adenomatoid tumor)
Texas (Propath Associates) - Mesothelioma
Texas (Shannon Clinic Pathology) - Yolk sac tumor
Utah (APA) - Mesothelioma
Washington, DC - Yolk sac tumor
Canada (CUSE, Site Fleurimont) - Adenomatoid tumor
Canada (Foothills Hospital, Calgary) - Mesothelioma
China (Sir Run Run Shaw Hospital) - Malignant mesothelioma
Japan (Defense Hospital, Sapporo) - Mesothelioma
Japan (Hamamatsu University School of Medicine) - Malignant mesothelioma, epithelial
Puerto Rico (Universidad de Puerto Rico) - Adenomatoid tumor
Saudi Arabia (King Khalid University Hospital) - Malignant mesothelioma of tunica vaginalis
Singapore (Singapore General Hospital) - Mesothelioma
Spain (POVISA, Vigo) - Mesothelioma

Case 9 - Diagnosis:

Malignant Mesothelioma, Testis

T-07000, M-95903

Consultation: Dr. Pfeifer, Mayo Clinic, Rochester, MN. "Malignant Mesothelioma."

Case 9 - References:

Ulbright TM, Amin MB, et al. Tumors of the Testis, Adnexa, Spermatic Cord, and Scrotum. *Atlas of Tumor Pathology*, Third Series 25. Armed Forces Institute of Pathology, Washington, DC 1999; 247-253.
Kasdon EJ. Malignant Mesothelioma of the Tunica Vaginalis Propria Testis. Report of Two Cases. *Cancer* 1969; 23(5):1144-1150.
Antman K, Cohen S, et al. Malignant Mesothelioma of the Tunica Vaginalis Testis. *J Clin Oncol* 1984; 2(5):447-451.
Young RH and Scully RE. Testicular Tumors. ASCP Press 1990. *American Society of Clinical Pathologist*, Chicago 164; 172-174.

Case No. 10, Accession No. 29042 May 2001

Glendale - Non-Hodgkin's lymphoma
Modesto - Follicular lymphoma, small cleaved
Mountain View - Malignant lymphoma, mixed small and large cell type
Orange (UCI Medical Center Residents) - Follicular lymphoma
Sacramento (UCD Medical Center) - Lymphoma, mixed, nodular
Alabama (Cunningham Pathology) - Malignant lymphoma, mixed small and large cleaved cell type
Arkansas (UAMS) - Follicle center lymphoma, follicular, grade I
Colorado (Unipath) - Large cell lymphoma (? T-cell rich B?) (1); Marginal zone lymphoma (1)
Florida (Munroe Regional Medical Center) - Non-Hodgkin's lymphoma, probable splenic marginal zone type
Florida (Winter Haven Hospital) - PDLL (1); Small cell cleaved lymphoma (1); Mixed small cell – large cleaved cell lymphoma (1)
Illinois (Chicago) - Follicular lymphoma
Illinois (Marion Memorial Hospital) - Malignant lymphoma, nodular, small cell, cleaved
Indiana (Fort Wayne) - Mixed large and small cell lymphoma, grade 2 (probable B-cell type) (follicular lymphoma), spleen
Maryland (National Institute Of Health Residents) - Non-Hodgkin's lymphoma, follicular pattern
Maryland (National Naval Medical Center) - Follicular lymphoma, grade II

Maryland (University of Maryland) - Follicular center cell lymphoma, grade II
Massachusetts (Providence Pathology Associates) - Follicular lymphoma, spleen
Michigan (St. Joseph's Mercy Hospital) - Follicular center cell lymphoma (5)
Michigan (St. Mary's Mercy Medical Center, Grand Rapids) - Large cell lymphoma (2)
Mississippi (University of Mississippi, Elderpath Group) - Malignant lymphoma, nodular large cell or mantle cell type
Missouri, Joplin - Marginal zone lymphoma
Nebraska (Good Samaritan Hospital) - Low grade lymphoma, favor follicular lymphoma, grade I
New York (East Meadow) - Lennert's lymphoma (T-cell lymphoma), spleen
Ohio (Columbus) - Lymphoma
South Carolina (Spartanburg Regional Medical Center) - Follicular lymphoma
Texas (Lubbock) - Follicular lymphoma, high grade
Texas (Propath Associates) - Malignant lymphoma, nodular type (2)
Texas (Shannon Clinic Pathology) - Large cell lymphoma
Utah (APA) - Follicular lymphoma
Washington, DC - Malignant lymphoma, nodular
Canada (CUSE, Site Fleurimont) - Mantle cell lymphoma
Canada (Foothills Hospital, Calgary) - Follicular, non-Hodgkin's lymphoma, grade 2-3
China (Sir Run Run Shaw Hospital) - Follicular lymphoma
Japan (Defense Hospital, Sapporo) - Malignant lymphoma
Japan (Hamamatsu University School of Medicine) - Follicular lymphoma
Puerto Rico (Universidad de Puerto Rico) - Follicular lymphoma, mainly small-cleaved cells
Saudi Arabia (King Khalid University Hospital) - Follicular lymphoma, grade III, spleen
Singapore (Singapore General Hospital) - Large cell lymphoma
Spain (POVISA, Vigo) - Anaplastic large cell lymphoma vs. Hodgkin's disease

Case 10 - Diagnosis:

Follicular Lymphoma, Spleen

T-07000, M-95903

Case 10 - References:

Mollejo M, Lloret E, et al. Lymph Node Involvement by Splenic Marginal Zone Lymphoma. Morphological and Immunohistochemical Features. *Am J Surg Pathol* 1997; 21(7)1:772-780.
Campo E, Miquel R, et al. Primary Nodal Marginal Zone Lymphomas of Splenic and MALT Type. *Am J Surg Pathol* 1999; 23(1):59-68.
Burke JS. Surgical Pathology of the Spleen. An Approach to the Differential Diagnosis of Splenic Lymphomas and Leukemias. Part II. Disease of the Red Pulp. *Am J Surg Pathol* 1981; 5(7):551-563.
Lei R, Arber DA, el al. Frequency of bcl-2 Expression in Non-Hodgkin's Lymphoma. A Study of 778 Cases with Comparison of Marginal Zone Lymphoma and Monocytoid B-Cell Hyperplasia. *Mod Pathol* 1998; 11(9):864-869.