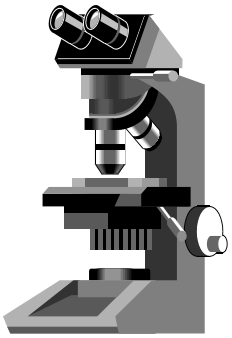
CALIFORNIA
TUMOR TISSUE REGISTRY

TUMORS OF LYMPH NODES & SPLEEN

Minutes – Subscription B

March 2001



SUGGESTED READING (General Topics from Recent Literature):

Surgical Research Review. Critical Review of the Sentinal Node Hypothesis. Morton DL and Ollila DW. *Surg* 1999; 126(5):815-819.

Immunohistochemical Detection of Lymph-Node Metastases. Van Diest P, et al. *The Lancet* 2000; 355:144-145.

Splenectomy for Splenic Metastases. A Changing Clinical Spectrum. Lee SS, Morgenstern L, Phillips EH, et al. *The Am Surg* 2000; 66:837-840.

Pathologic Evaluation of Sentinel Lymph Nodes in Colorectal Carcinoma. Wiese DA, Saha S, et al. *Arch Pathol Lab Med* 2000:124:1759-1763.

Sentinel Lymphadenectomy Accurately Predicts Nodal Status in T2 Breast Cancer. Olson JA Jr., Fey J, et al. *J Am Coll Surg* 2000; 191:593-599.

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

FILE DIAGNOSES

CTTR Subscription B March 2001

Case 1:

Splenic (Systemic) Mastocytosis

T-07000, D-3565

Case 2:

Chronic Lymphocytic Leukemia, Spleen

T-07000, M-98233

Case 3:

Lepromatous Leprosy, Spleen

T-07000, D-01341

Case 4:

Follicular Lymphoma, Right Groin

T-Y7000, M-96903

Case 5:

Diffuse Large B-Cell Lymphoma, Spleen

T-07000, M-95903

Case 6:

Hyperplastic and Granulomatous Lymphadenitis, Axilla

T-Y8100, M-40000

Case 7:

Anaplastic Large T-Cell Lymphoma, Monomorphic Variant, Groin

T-08000, M-95903

Case 8:

Hodgkin's Disease, Nodular Sclerosing, Mixed Cellularity Type, Cervical Lymph Node

T-08000, M-96563

Case 9:

Hodgkin's Disease, Mixed Cellularity, Cervical Lymph Node

T-08200, M-96523

Case 10:

Extranodal Rosai-Dorfman Disease, Bladder

T-74000, M-77940

Case No. 1, Accession No. 28970 March 2001

Loma Linda Residents - Splenic marginal zone cell lymphoma
Mountain View (El Camino Pathology Group) - Mast cell disease
Orange (UCI Medical Center Residents) - Castleman's disease
Richmond - Extramedullary hematopoiesis consistent with myelofibrosis
Sacramento (UCD Medical Center) - Extramedullary hematopoiesis consistent with myelofibrosis
Alabama (Cunningham Pathology) - Chronic myelogenous leukemia
Arkansas (Little Rock) - Systemic mast cell disease
Colorado (Unipath) - Chronic granulocytic leukemia
Florida (Munroe Regional Medical Center) - Chronic myelogenous leukemia
Florida (Winter Haven Hospital) - Mast cell disease (systemic mastocytosis) (1); Infection associated hemophagocytosis (1)
Illinois (Chicago) - Myelofibrosis with extramedullary hematopoiesis
Illinois (Marion Memorial Hospital) - Langerhans cell histiocytosis
Indiana (Fort Wayne) - Marginal zone B-cell lymphoma, spleen
Kansas (University of Kansas Medical Center) - Chronic myelogenous leukemia in blast crisis
Maryland (National Naval Medical Center) - Mast cell disease (12)
Massachusetts (Caritas Good Samaritan Medical Center) - (1) Hodgkins disease without Reed Sternberg or variant cells; (2) Consider eosinophilic granuloma
Massachusetts (Providence Path Associates) - Splenomegaly due to myeloproliferative disease
Michigan (St. Mary's Mercy Medical Center) - Mastocytosis (2)
Michigan (Spectrum Health) - Extramedullary myeloid tumor
Missouri (Ferguson Labs) - Fibrocongestive splenomegaly
Nebraska (Good Samaritan Hospital) - Mastocytosis
New York (East Meadow) - Large cell lymphoma, T-cell type, spleen
New York (Impath) - Systemic mast cell disease
Ohio (University Hospital of Cleveland) - Mastocytosis vs. Langerhans cell histiocytosis
Pennsylvania (Allegheny General Hospital) - Mastocytosis
Pennsylvania (Conemaugh Memorial Medical Center) - Systemic mastocytosis
Texas (Houston) - Chronic myelogenous leukemia
Texas (Lubbock) - Extramedullary hematopoiesis, myelofibrosis
Texas (ProPath Associates) - Agnogenic myeloid metaplasia (2)
Utah (APA) - Mast cell disease vs. T-cell lymphoma
Washington, DC - Myeloid metaplasia
Canada (CUSE Site Fleurimont) - Angiofollicular hyperplasia
China (Sir Run Run Shaw Hospital) - (1) Castleman's disease; (2) Marginal zone B-cell lymphoma
Japan (Hamamatsu University School of Medicine) - Marginal zone B-cell lymphoma
Japan (Minami-Ku, Sapporo) - Angioimmunoblastic lymphadenopathy
Saudi Arabia (King Khalid University Hospital) - Mantle cell lymphoma
Singapore - Agnogenic myeloid metaplasia
Spain (PROVISA, Vigo) - Mantle cell lymphoma vs. marginal zone cell lymphoma

Case 1 – Diagnosis:

Splenic (Systemic) Mastocytosis

T-07000, D-3565

Consultation: Paul Kurtin, M.D., Mayo Clinic. "Mastocytosis involving the spleen."

Case 1 – References:

Horny H, Ruck MT, Kaiserling E. Spleen Findings in Generalized Mastocytosis. A Clinicopatholoigc Study. *Cancer* 1992; 70(2):459-468.
Schaumburg-Lever G, Bolz S, et al. Use of Monoclonal Antibody KP1 for Identifying Normal and Neoplastic Human Mast Cells. *J Clin Pathol* 1990; 43(9):719-722.
Kaiserling E. Lymphoid Cells and Tissue Mast Cells of Bone Marrow Lesions in Systemic Mastocytosis. A Histological and Immunohistological Study. *Br J Haematol* 1988; 69(4):449-455.

Parwaresch MR and Lennert K. Bone Marrow Findings in Systemic Mastocytosis. *Hum Pathol* 1985; 16(8):808-814.

Case No. 2, Accession No. 28912 March 2001

Loma Linda Residents - (1) Chronic lymphocytic lymphoma; (2) Small lymphocytic lymphoma
Mountain View (El Camino Pathology Group) - Chronic lymphocytic leukemia
Orange (UCI Medical Center Residents) - Small lymphocytic lymphoma
Richmond - Small lymphocytic lymphoma
Sacramento (UCD Medical Center) - (1) Chronic lymphocytic leukemia; (2) Small lymphocytic lymphoma
Alabama (Cunningham Pathology) - Small lymphocytic lymphoma
Arkansas (Little Rock) - Splenic marginal zone lymphoma
Colorado (Unipath) - Chronic lymphocytic leukemia
Florida (Munroe Regional Medical Center) - Chronic lymphocytic leukemia
Florida (Winter Haven Hospital) - Chronic lymphocytic leukemia (1); Lymphoma (1)
Illinois (Chicago) - (1) Small lymphocytic lymphoma; (2) Chronic lymphocytic leukemia
Illinois (Marion Memorial Hospital) - Chronic lymphocytic leukemia
Indiana (Fort Wayne) - (1) Small lymphocytic lymphoma; (2) Chronic lymphocytic leukemia
Kansas (University of Kansas Medical Center) - Chronic lymphocytic leukemia
Maryland (National Naval Medical Center) - Chronic lymphocytic leukemia (12)
Massachusetts (Caritas Good Samaritan Medical Center) - Non-Hodgkin lymphoma with splenomegaly
Massachusetts (Providence Path Associates) - Splenomegaly with chronic lymphocytic leukemia
Michigan (St. Mary's Mercy Medical Center) - Chronic lymphocytic leukemia/small lymphocytic lymphoma; (2) Low grade lymphoma
Michigan (Spectrum Health) - Lymphoplasmacytoid lymphoma
Missouri (Ferguson Labs) - Marginal zone lymphoma
Nebraska (Good Samaritan Hospital) - Small lymphocytic lymphoma
New York (East Meadow) - Lymphoplasmacytic lymphoma, spleen
New York (Impath) - (1) Small lymphocytic lymphoma; (2) Chronic lymphocytic leukemia
Ohio (University Hospital of Cleveland) - (1) WDLL; (2) Chronic lymphocytic leukemia
Pennsylvania (Allegheny General Hospital) - (1) Small lymphocytic lymphoma; (2) Chronic lymphocytic leukemia
Pennsylvania (Conemaugh Memorial Medical Center) - Small lymphocytic lymphoma, spleen
Texas (Houston) - Chronic lymphocytic lymphoma
Texas (Lubbock) - Small lymphocytic lymphoma
Texas (ProPath Associates) - Stage IV, chronic lymphocytic leukemia (1); Chronic lymphocytic leukemia (1)
Utah (APA) - Chronic lymphocytic leukemia
Washington, DC - (1) Small lymphocytic lymphoma; (2) Chronic lymphocytic leukemia
Canada (CUSE Site Fleurimont) - (1) Small lymphocytic lymphoma; (2) Chronic lymphocytic leukemia, spleen
China (Sir Run Run Shaw Hospital) - Chronic lymphocytic leukemia involving spleen
Japan (Hamamatsu University School of Medicine) - Lymphoplasmacytoid lymphoma
Japan (Minami-Ku, Sapporo) - (1) Small lymphocytic lymphoma; (2) Chronic lymphocytic leukemia
Saudi Arabia (King Khalid University Hospital) - Splenic involvement by chronic lymphocytic leukemia (CLL)
Singapore - Chronic lymphocytic leukemia
Spain (PROVISA, Vigo) - Small lymphocytic lymphoplasmacytoid, mantle cell lymphoma

Case 2 – Diagnosis:

Chronic Lymphocytic Leukemia, Spleen

T-07000, M-98233

Case 2 – References:

Burke JS. Surgical Pathology of the Spleen. An Approach to the Differential Diagnosis of Splenic Lymphomas and Leukemias. Part I. Diseases of the White Pulp. *Am J Surg Pathol* 1981; 5(6):551-563.

Falk S and Stutte HJ. Primary Malignant Lymphomas of the Spleen. A Morphologic and Immunohistochemical Analysis of 17 Cases. *Cancer* 1990; 66(12): 2612-2619.
Pangalis GA, Roussou PA, Kittas C, et al. B Chronic Lymphocytic Leukemia. Prognostic Implication of Bone Marrow Histologic in 120 Patients. Experience from a Single Hematology Unit. *Cancer* 1987; 59(4):767-771.
Juliusson G, Oscier DG, Fitchett M, et al. Prognostic Subgroups in B-Cell Chronic Lymphocytic Leukemia Defined by Specific Chromosomal Abnormalities. *N Eng J Med* 1990; 323(11):720-724.
Chu PG, Chang KL, Arber DA and Weiss LM. Immunophenotyping of Hematopoietic Neoplasms. *Semin Diagn Pathol* 2000; 17(3):236-256.

Case No. 3, Accession No. 23665 March 2001

Loma Linda Residents - Consistent with lepromatous leprosy with many lepra cells
Mountain View (El Camino Pathology Group) - Leprosy
Orange (UCI Medical Center Residents) - Leprosy
Richmond - Histiocytosis/granulomatous reaction consistent with leprosy
Sacramento (UCD Medical Center) - Granulomatous inflammation favor infection, NOS
Alabama (Cunningham Pathology) - Blastomycosis
Arkansas (Little Rock) - Lepromatous leprosy
Colorado (Unipath) - Coccidioidomycosis
Florida (Munroe Regional Medical Center) - Lipogranulomas with ceroid
Florida (Winter Haven Hospital) - Granulomatous splenitis (1); Infectious ? lepromatous granulomas (1)
Illinois (Chicago) - Leprosy involving spleen
Illinois (Marion Memorial Hospital) - Splenic infiltration by macrophages consistent with lepra cells of leprosy
Indiana (Fort Wayne) - Ruptured spleen with lepromatous leprosy
Kansas (University of Kansas Medical Center) - Lepromatous leprosy
Maryland (National Naval Medical Center) - Leprosy (10); Fat embolism (2)
Massachusetts (Caritas Good Samaritan Medical Center) - Non-Hodgkin's lymphoplasmacytic lymphoma
Massachusetts (Providence Path Associates) - Lepromatous leprosy, spleen
Michigan (St. Mary's Mercy Medical Center) - Leprosy (2)
Michigan (Spectrum Health) - Leprosy
Missouri (Ferguson Labs) - Leprosy
Nebraska (Good Samaritan Hospital) - Leprosy
New York (East Meadow) - Lepromatous leprosy, spleen
New York (Impath) - Lepromatous globi in splenic histiocytes
Ohio (University Hospital of Cleveland) - Peliosis
Pennsylvania (Allegheny General Hospital) - Lepromatous splenitis with lepra cells
Pennsylvania (Conemaugh Memorial Medical Center) - Granulomatous lymphadenitis with lipid granulomas
Texas (Houston) - Infectious leprosy in spleen
Texas (Lubbock) - Sinus histiocytosis
Texas (ProPath Associates) - Cryptococcosis (2)
Utah (APA) - Coccidioidomycosis vs. drug abuse
Washington, DC - Lipoid histiocytosis
Canada (CUSE Site Fleurimont) - No answer
China (Sir Run Run Shaw Hospital) - Granulomatous inflammation (special infection)
Japan (Hamamatsu University School of Medicine) - Cryptococcosis
Japan (Minami-Ku, Sapporo) - Granulomata of leprosy
Saudi Arabia (King Khalid University Hospital) - Splenic involvement by leprosy (4); Splenic involvement by cryptococcus (2)
Singapore - Disseminated leprosy
Spain (PROVISA, Vigo) - Histoid variant of lepromatous leprosy

Case 3 – Diagnosis:

Lepromatous Leprosy, Spleen
T-07000, D-01341

Case 3 – References:
Lancet. Leprosy Beyond the Year 2000. *Lancet* 1997; 350:1717.
Abel L, Sanchez FO, Oberti J, et al. Susceptibility to Leprosy is Linked to the Human NRAMP1 Gene. *J Infect Dis* 1998; 177(1):133-145.
Scollard DM, Gillis TP, et al. Polymerase Chain Reaction Assay for the Detection and Identification of Mycobacterium Leprae in Patients in the United States. *Am J Clin Pathol* 1998; 109(5):642-646.
Watts J. Leprosy Patients Demand Compensation for Former Isolation Policies. *Lancet* 1999; 353(9160):1252.
Levis WR, Vides EA, et al. Leprosy in the Eastern United States. *JAMA* 2000; 283(8):1004-1005.

Case No. 4, Accession No. 28711 March 2001

Loma Linda Residents - Follicular lymphoma, grade II
Mountain View (El Camino Pathology Group) - Malignant lymphoma, follicular small cleaved cell type
Orange (UCI Medical Center Residents) - Follicular lymphoma
Richmond - Follicular lymphoma, grade II
Sacramento (UCD Medical Center) - Follicular center lymphoma, follicular, cytologic grade II
Alabama (Cunningham Pathology) - Follicular center cell lymphoma, large cleaved type
Arkansas (Little Rock) - Malignant lymphoma, follicular center type, follicular, grade 2
Colorado (Unipath) - Diffuse large cell lymphoma
Florida (Munroe Regional Medical Center) - Follicular center lymphoma, follicular, predominantly small cell, grade I
Florida (Winter Haven Hospital) - Nodular lymphoma, mixed (1); Mantle cell lymphoma (1)
Illinois (Chicago) - Follicular lymphoma, grade III
Illinois (Marion Memorial Hospital) - Malignant lymphoma, nodular, small cell cleaved
Indiana (Fort Wayne) - Follicular lymphoma, groin (B-cell)
Kansas (University of Kansas Medical Center) - Follicular lymphoma, grade 3
Maryland (National Naval Medical Center) - Follicular lymphoma (12)
Massachusetts (Caritas Good Samaritan Medical Center) - Non-Hodgkin lymphoma, follicular "B" large cell
Massachusetts (Providence Path Associates) - Follicular center lymphoma, follicular lymph node, mixed small and large cell
Michigan (St. Mary's Mercy Medical Center) - Follicular lymphoma, large cell type (1); Follicle center lymphoma, grade III (1)
Michigan (Spectrum Health) - Follicular lymphoma, grade I
Missouri (Ferguson Labs) - Follicular lymphoma
Nebraska (Good Samaritan Hospital) - Follicular lymphoma, mixed small and large cell
New York (East Meadow) - Follicular lymphoma, right groin
New York (Impath) - Follicular lymphoma, grade 2 of 3
Ohio (University Hospital of Cleveland) - Follicular small cleaved lymphoma
Pennsylvania (Allegheny General Hospital) - Follicular lymphoma, small cleaved cell
Pennsylvania (Conemaugh Memorial Medical Center) - Follicular lymphoma, large cell type
Texas (Houston) - Diffuse large B-cell lymphoma
Texas (Lubbock) - Large cell lymphoma, B-cell type
Texas (ProPath Associates) - Malignant B-cell lymphoma, nodular follicular center cell type (2)
Utah (APA) - Large cell lymphoma
Washington, DC - Malignant lymphoma, follicular (small cell)
Canada (CUSE Site Fleurimont) - Follicular lymphoma, small cell cleaved
China (Sir Run Run Shaw Hospital) - Follicular lymphoma
Japan (Hamamatsu University School of Medicine) - Follicular lymphoma, grade 3
Japan (Minami-Ku, Sapporo) - Follicular lymphoma
Saudi Arabia (King Khalid University Hospital) - Follicular lymphoma, predominantly large cell, grade 3/3 by REAL classification
Singapore - Follicular lymphoma (grade 2/3)
Spain (PROVISA, Vigo) - Follicular lymphoma, grade II

Case 4 – Diagnosis:

Follicular Lymphoma, Right Groin

T-Y7000, M-96903

Consultation: Bertram Schnitzer, M.D., University of Michigan, Ann Arbor, MI. "Follicular lymphoma, mixed small and large cell type."

Case 4 – References:

Chan JKC. A New Classification of Lymphoma. The Revised European-American Lymphoma Classification. *Adv in Ana Pathol* 1994; 1(3):166-172.

Chan JK. Advances in Immunohistochemical Techniques. Toward Making Things Simpler, Cheaper, More Sensitive, and More Reproducible. *Adv In Ana Pathol* 1998; 5(5):314-325.

Miller TP, Le Blanc M, et al. Follicular Lymphomas. Do Histologic Subtypes Predict Outcome? *Hematol Oncol Clin North Am* 1997; 11(5):893-900.

Sapunar F, Catovsky D, et al. Follicular Lymphoma. A Series of 11 Patient with Minimal or No Treatment and Long Survival. *Leuk Lymphoma* 2000; 37(1-2):163-167.

Federico M, Vitolo U, et al. Prognosis of Follicular Lymphoma. A Predictive Model Based on a Retrospective Analysis of 987 Cases. Intergruppo Italiano Linfomi. *Blood* 2000; 95(3):783-789.

Case No. 5, Accession No. 28973 March 2001

Loma Linda Residents - Diffuse large B-cell lymphoma

Mountain View (El Camino Pathology Group) - Large cell lymphoma, B-cell lineage

Orange (UCI Medical Center Residents) - Large B-cell lymphoma, high grade

Richmond - Large cell B-cell lymphoma

Sacramento (UCD Medical Center) - Diffuse large B-cell lymphoma

Alabama (Cunningham Pathology) - B-cell lymphoma, immunoblastic type

Arkansas (Little Rock) - Malignant lymphoma, diffuse large B-cell type

Colorado (Unipath) - Diffuse large cell lymphoma

Florida (Munroe Regional Medical Center) - Follicular center lymphoma, diffuse large cell, grade III

Florida (Winter Haven Hospital) - Large cell lymphoma (1); Immunoblastic lymphoma (1)

Illinois (Chicago) - Diffuse large B-cell lymphoma

Illinois (Marion Memorial Hospital) - Malignant lymphoma, diffuse, large cell type, of follicular center cell origin

Indiana (Fort Wayne) - Diffuse large B-cell lymphoma, spleen

Kansas (University of Kansas Medical Center) - Diffuse large cell lymphoma, B-cell type

Maryland (National Naval Medical Center) - Diffuse large B-cell lymphoma (12)

Massachusetts (Caritas Good Samaritan Medical Center) - Non Hodgkin lymphoma, large "B" cell

Massachusetts (Providence Path Associates) - Primary splenic large B-cell lymphoma

Michigan (St. Mary's Mercy Medical Center) - Large B-cell lymphoma (2)

Michigan (Spectrum Health) - Large cell lymphoma

Missouri (Ferguson Labs) - Mantle cell lymphoma

Nebraska (Good Samaritan Hospital) - Diffuse large B-cell lymphoma

New York (East Meadow) - Diffuse large B-cell lymphoma, spleen

New York (Impath) - Diffuse large B-cell lymphoma, exclude blastic, large cell mantle cell lymphoma

Ohio (University Hospital of Cleveland) - Diffuse large B-cell lymphoma

Pennsylvania (Allegheny General Hospital) - Large cell lymphoma, B-cell

Pennsylvania (Conemaugh Memorial Medical Center) - High grade large cell lymphoma

Texas (Houston) - Diffuse large B-cell lymphoma

Texas (Lubbock) - Large cell lymphoma, B-cell type

Texas (ProPath Associates) - Malignant lymphoma, large B-cell type (2)

Utah (APA) - Large cell lymphoma

Washington, DC - Large cell lymphoma

Canada (CUSE Site Fleurimont) - Diffuse large cell lymphoma, B cell type

China (Sir Run Run Shaw Hospital) - Large B-cell lymphoma
Japan (Hamamatsu University School of Medicine) - Diffuse large B-cell lymphoma
Japan (Minami-Ku, Sapporo) - Diffuse large cell lymphoma
Saudi Arabia (King Khalid University Hospital) - Diffuse large cell lymphoma, B-cell phenotype
Singapore - Diffuse large cell lymphoma
Spain (PROVISA, Vigo) - Large B-cell lymphoma

Case 5 – Diagnosis:
Diffuse Large B-Cell Lymphoma, Spleen
T-07000, M-95903

Consultation: Lawrence M. Weiss, M.D. USLABS, Irvine CA. "Diffuse large B-cell lymphoma."

Case 5 – References:

Falk S and Stutte HJ. Primary Malignant Lymphomas of the Spleen. A Morphologic and Immunohistochemical Analysis of 17 Cases. *Cancer* 1990; 66(12):2612-2619.
Coad JE, Olson DJ, Christensen DR, et al. Correlation of PCR-Detected Clonal Gene Rearrangements with Bone Marrow Morphology in Patients with B-Lineage Lymphomas. *Am J Surg Pathol* 1997; 21(9):1047-1056.
Palutke M, Eisenberg L, Sudha N, et al. B Lymphocytic Lymphoma (Large Cell) of Possible Splenic Marginal Zone Origin Presenting with Prominent Splenomegaly and Unusual Cordal Red Pulp Distribution. *Cancer* 1988; 62(3):593-600.
Chang CC, Liu YC, et al. Expression of c-Myc and p53 Correlates with Clinical Outcome in Diffuse Large B-Cell Lymphomas. *Am J Clin Pathol* 2000; 113(4):512-518.
Rao PH, Houldsworth J, et al. Chromosomal and Gene Amplification in Diffuse Large B-Cell Lymphoma. *Blood* 1998; 92(1):234-240.
Baars JW, de Jong D, et al. Diffuse Large B-Cell Non-Hodgkin Lymphomas. The Clinical Relevance of Histological Subclassification. *Br J Cancer* 1999; 79(11-12):1770-1776.

Case No. 6, Accession No. 24394 March 2001

Loma Linda Residents - Florid reactive lymphadenopathy (viral, HIV or toxoplasmosis)
Mountain View (El Camino Pathology Group) - Toxoplasmosis lymphadenitis
Orange (UCI Medical Center Residents) - Granulomatous inflammation (histoplasmosis?)
Richmond - Reactive lymphoid hyperplasia with granulomas
Sacramento (UCD Medical Center) - Toxoplasmosis
Alabama (Cunningham Pathology) - Toxoplasmosis
Arkansas (Little Rock) - Cat scratch lymphadenitis
Colorado (Unipath) - Sarcoid
Florida (Munroe Regional Medical Center) - Granulomatous lymphadenitis favor toxoplasmosis
Florida (Winter Haven Hospital) - Lymphadenitis, rule out toxoplasma (1); Reactive lymphadenitis (cat scratch) (1)
Illinois (Chicago) - Progressive transformation of germinal centers
Illinois (Marion Memorial Hospital) - Toxoplasma lymphadenitis
Indiana (Fort Wayne) - Reactive hyperplasia with granulomatous lymphadenitis, rule out toxoplasmosis
Kansas (University of Kansas Medical Center) - Leutic lymphadenitis
Maryland (National Naval Medical Center) - Toxoplasma lymphadenitis (12)
Massachusetts (Caritas Good Samaritan Medical Center) - Progressive transformation of follicle centers
Massachusetts (Providence Path Associates) - Reactive lymphadenitis, axilla
Michigan (St. Mary's Mercy Medical Center) - Reactive lymphadenitis (2)
Michigan (Spectrum Health) - Toxoplasmosis lymphadenitis
Missouri (Ferguson Labs) - Reactive lymph node (cat scratch?)
Nebraska (Good Samaritan Hospital) - Toxoplasmosis lymphadenitis
New York (East Meadow) - Reactive lymphadenopathy
New York (Impath) - Granulomatous lymphadenitis favor toxoplasmosis
Ohio (University Hospital of Cleveland) - Follicular hyperplasia, granuloma

Pennsylvania (Allegheny General Hospital) - Reactive lymphadenitis, rule out HIV
Pennsylvania (Conemaugh Memorial Medical Center) - Granulomatous lymphadenitis, toxoplasmosis
Texas (Houston) - Toxoplasmosis
Texas (Lubbock) - Granulomatous lymphadenitis
Texas (ProPath Associates) - Necrotizing granulomatous lymphadenitis, rule out cat scratch (1); Necrotizing granulomatous lymphadenitis (1)
Utah (APA) - Toxoplasma lymphadenitis
Washington, DC - Benign lymphoid hyperplasia
Canada (CUSE Site Fleurimont) - Reactive follicular hyperplasia, HIV?
China (Sir Run Run Shaw Hospital) - Reactive hyperplasia of lymph node
Japan (Hamamatsu University School of Medicine) - Sarcoidosis-like granuloma
Japan (Minami-Ku, Sapporo) - Granulomatous lymphadenitis
Saudi Arabia (King Khalid University Hospital) - Florid lymphoid hyperplasia with epithelioid granuloma, toxoplasmosis and HIV infection should be excluded
Singapore - Toxoplasma lymphadenitis
Spain (PROVISA, Vigo) - Piringer-Vuchinka lymphadenitis

Case 6 – Diagnosis:

Hyperplastic and Granulomatous Lymphadenitis, Axilla

T-Y8100, M-40000

Case 6 – References:

Almasri NM, Iturraspe JA, et al. CD10 Expression In Follicular Lymphoma and Large Cell Lymphoma is Different From That of Reactive Lymph Node Follicles. *Arch Pathol Lab Med* 1998; 122(6):539-544.
Giant MD. Cytopathology of Lymph Nodes in Nonspecific Reactive Hyperplasia. Prognostication and Differential Diagnoses. *Am J Clin Pathol* 1997; 108(4 Suppl 1):pS31-55.
Jayaram N, Ramaprasad AV, et al. Toxoplasma Lymphadenitis. Analysis of Cytologic and Histopathologic Criteria and Correlation with Serologic Tests. *Acta Cytol* 1997; 41(3):653-658.
Gottlieb T, Atkins BL, et al. Cat Scratch Disease Diagnosed by Polymerase Chain Reaction in a Patient with Suspected Tuberculous Lymphadenitis. *Med J Aust* 1999; 170(4):168-170.

Case No. 7, Accession No. 28840 March 2001

Loma Linda Residents - Diffuse large cell lymphoma, anaplastic type
Mountain View (El Camino Pathology Group) - Malignant lymphoma, small non-cleaved cell type (Burkitt's lymphoma)
Orange (UCI Medical Center Residents) - Ki-1 anaplastic lymphoma
Richmond - High-grade Burkitt's/Burkitt's like lymphoma
Sacramento (UCD Medical Center) - Anaplastic large cell lymphoma
Alabama (Cunningham Pathology) - Anaplastic large cell lymphoma, T-cell type
Arkansas (Little Rock) - Anaplastic large cell lymphoma
Colorado (Unipath) - Hodgkin's disease
Florida (Munroe Regional Medical Center) - Anaplastic large cell lymphoma
Florida (Winter Haven Hospital) - Lymphoma vs. acute leukemia (1); Immunoblastic lymphoma (1)
Illinois (Chicago) - Anaplastic large cell lymphoma
Illinois (Marion Memorial Hospital) - Malignant lymphoma, diffuse, large cell, anaplastic
Indiana (Fort Wayne) - CD30 + anaplastic large cell lymphoma, left groin
Kansas (University of Kansas Medical Center) - Anaplastic large cell lymphoma
Maryland (National Naval Medical Center) - Anaplastic large cell lymphoma (12)
Massachusetts (Caritas Good Samaritan Medical Center) - Non Hodgkin lymphoplasmacytic lymphoma
Massachusetts (Providence Path Associates) - Immunoblastic lymphoma
Michigan (St. Mary's Mercy Medical Center) - Anaplastic large cell lymphoma, T-cell type (2)
Michigan (Spectrum Health) - Peripheral T-cell lymphoma, large cell type
Missouri (Ferguson Labs) - T-cell lymphoma

Nebraska (Good Samaritan Hospital) - Anaplastic large cell lymphoma
New York (East Meadow) - Anaplastic T-cell lymphoma, left groin
New York (Impath) - Anaplastic large cell lymphoma, small cell variant
Ohio (University Hospital of Cleveland) - Lymphoma, anaplastic large cell vs. T-cell
Pennsylvania (Allegheny General Hospital) - Anaplastic large cell
Pennsylvania (Conemaugh Memorial Medical Center) - Anaplastic (Ki-1 lymphoma)
Texas (Houston) - Hodgkin's lymphoma
Texas (Lubbock) - Anaplastic large cell lymphoma
Texas (ProPath Associates) - Anaplastic large cell lymphoma (1); Large cell Ki-1 lymphoma (1)
Utah (APA) - Anaplastic large cell lymphoma
Washington, DC - Malignant lymphoma, anaplastic large cell
Canada (CUSE Site Fleurimont) - Anaplastic large cell lymphoma
China (Sir Run Run Shaw Hospital) - Anaplastic large cell lymphoma (T-cell)
Japan (Hamamatsu University School of Medicine) - Anaplastic large cell lymphoma
Japan (Minami-Ku, Sapporo) - Anaplastic large cell lymphoma
Saudi Arabia (King Khalid University Hospital) - Diffuse large B-cell lymphoma
Singapore - T-cell lymphoma
Spain (PROVISA, Vigo) - Anaplastic large-cell lymphoma

Case 7 – Diagnosis:

Anaplastic Large T-Cell Lymphoma, Monomorphic Variant, Groin

T-08000, M-95903

Consultation: Milton Drachenberg, M.D., Loma Linda University Medical Center. "Anaplastic large cell lymphoma, T-cell type, monomorphic variant."

Case 7 References:

Chott A, Kaserer K, Augustin I, et al. Ki-1 Positive Large Cell Lymphoma. A Clinicopathologic Study of 41 Cases. *Am J Surg Pathol* 1990; 14(5):439-448.
King JA, Martino RL, et al. Anaplastic Large-Cell Lymphoma (Ki-1 Lymphoma) and Diffuse Large-Cell Immunoblastic Lymphoma. Two Diagnostic Problem Cases. *Ultrastruct Pathol* 1998; 22(1):55-62.
Kinney MC and Kadin ME. The Pathologic and Clinical Spectrum of Anaplastic Large Cell Lymphoma and Correlation with ALK Gene Dysregulation. *Am J Clin Pathol* 1999; 111(1 Supl 1):pS56-67.
Chan JK. Anaplastic Large Cell Lymphoma. Redefining Its Morphologic Spectrum and Importance of Recognition of the ALK-Positive Subset. *Adv Anat Pathol* 1998; 5(6):399.

Case No. 8, Accession No. 27620 March 2001

Loma Linda Residents - Hodgkin's lymphoma, mixed cellularity
Mountain View (El Camino Pathology Group) - Nodular sclerosing Hodgkin's disease (cellular phase)
Orange (UCI Medical Center Residents) - Hodgkin's disease (mixed cell type)
Richmond - Hodgkin's disease, nodular sclerosing type
Sacramento (UCD Medical Center) - Hodgkin's lymphoma, nodular sclerosing type
Alabama (Cunningham Pathology) - Hodgkin's disease, mixed cellularity type
Arkansas (Little Rock) - Hodgkin's lymphoma, mixed cellularity type
Colorado (Unipath) - Hodgkin's disease
Florida (Munroe Regional Medical Center) - Hodgkin's disease
Florida (Winter Haven Hospital) - Hodgkin's disease (2)
Illinois (Chicago) - Hodgkin's lymphoma, mixed cellularity
Illinois (Marion Memorial Hospital) - Hodgkin's malignant lymphoma, mixed cellularity type
Indiana (Fort Wayne) - Hodgkin's lymphoma (classic), lymph node, cervical (nodular sclerosis) cellular phase
Kansas (University of Kansas Medical Center) - Hodgkin's disease
Maryland (National Naval Medical Center) - Hodgkin's disease, mixed cell type (11); Hodgkin's disease, lymphocyte depleted (1)

Massachusetts (Caritas Good Samaritan Medical Center) - Hodgkin's disease, mixed cellularity
Massachusetts (Providence Path Associates) - Hodgkin's disease, mixed cellularity
Michigan (St. Mary's Mercy Medical Center) - Hodgkin's lymphoma (1); Hodgkin's disease (1)
Michigan (Spectrum Health) - Hodgkin's disease
Missouri (Ferguson Labs) - Hodgkin's disease, mixed cellularity
Nebraska (Good Samaritan Hospital) - Classic Hodgkin's lymphoma, mixed cellularity
New York (East Meadow) - Hodgkin's lymphoma, mixed cellularity, cervical lymph node
New York (Impath) - Classical Hodgkin's disease, mixed cellularity type
Ohio (University Hospital of Cleveland) - Hodgkin's, nodular sclerosing
Pennsylvania (Allegheny General Hospital) - Hodgkin's, nodular sclerosing
Pennsylvania (Conemaugh Memorial Medical Center) - Hodgkin's lymphoma, mixed cellularity
Texas (Houston) - Hodgkin's lymphoma
Texas (Lubbock) - Hodgkin's lymphoma, mixed cellularity
Texas (ProPath Associates) - Hodgkin's lymphoma, nodular sclerosing type
Utah (APA) - Hodgkin's disease, mixed cellularity
Washington, DC - Hodgkin's disease, nodular sclerosing
Canada (CUSE Site Fleurimont) - Hodgkin's disease, mixed cellularity
China (Sir Run Run Shaw Hospital) - Hodgkin's lymphoma (mixed cells type)
Japan (Hamamatsu University School of Medicine) - Hodgkin's lymphoma, mixed cellularity
Japan (Minami-Ku, Sapporo) - Hodgkin's lymphoma (mixed cellularity type)
Saudi Arabia (King Khalid University Hospital) - Nodular sclerosis, Hodgkin's disease
Singapore - Lymphocyte depleted Hodgkin's lymphoma
Spain (PROVISA, Vigo) - Hodgkin's disease, nodular sclerosis, mixed cellularity

Case 8 - Diagnosis:

Hodgkin's Disease, Nodular Sclerosing, Mixed Cellularity Type, Cervical Lymph Node
T-08000, M-96563

Consultation: Jeff Cao, M.D., Loma Linda University Medical Center. "Nodular sclerosing Hodgkin's disease, mixed cellular type."

Case 8 – References:

MacLennan KA, Bennett MH, Tu A, et al. Relationship of Histopathologic Features to Survival and Relapse in Nodular Sclerosing Hodgkin's Disease. A Study of 1659 Patients. *Cancer* 1989; 64(8):1686-1693.
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Poppema S, Kaleta J and Hepperle B. Chromosomal Abnormalities in Patients with Hodgkin's Disease. Evidence for Frequent Involvement of the 14q Chromosomal Region but Infrequent Bc1-2 Gene Rearrangement in Reed-Sternberg Cells. *J North Cancer Inst* 1992; 84(23): 1789-1793.
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Case No. 9, Accession No. 17680 March 2001

Loma Linda Residents - Classic Hodgkin's lymphoma
Mountain View (El Camino Pathology Group) - Lymphoma "small cell" variant
Orange (UCI Medical Center Residents) - Anaplastic large cell lymphoma
Richmond - Hodgkin's disease, lymphocyte predominance type
Sacramento (UCD Medical Center) - Hodgkin's lymphoma, lymphocyte, predominant type
Alabama (Cunningham Pathology) - Infectious mononucleosis
Arkansas (Little Rock) - Infectious mononucleosis
Colorado (Unipath) - T-cell lymphoma
Florida (Munroe Regional Medical Center) - Hodgkin's disease

Florida (Winter Haven Hospital) - Hodgkin's disease (2)
Illinois (Chicago) - Infectious mononucleosis
Illinois (Marion Memorial Hospital) - Hodgkin's malignant lymphoma, lymphocytic predominance type
Indiana (Fort Wayne) - Atypical lymphoproliferative process with pseudo R-S cells, lymph node, neck, rule out mononucleosis
Kansas (University of Kansas Medical Center) - Infectious mononucleosis
Maryland (National Naval Medical Center) - Hodgkin's disease (12)
Massachusetts (Caritas Good Samaritan Medical Center) - Immunoblastic non-Hodgkin lymphoma "B" cell type
Massachusetts (Providence Path Associates) - Acute lymphadenitis, ? EBV infection
Michigan (St. Mary's Mercy Medical Center) - Large cell lymphoma (2)
Michigan (Spectrum Health) - Infectious mononucleosis lymphadenitis
Missouri (Ferguson Labs) - Hodgkin's disease, lymphocyte predominance
Nebraska (Good Samaritan Hospital) - Infectious mononucleosis
New York (East Meadow) - Hodgkin's lymphoma, nodular lymphocyte predominant, left cervical lymph node
New York (Impath) - Viral lymphadenitis
Ohio (University Hospital of Cleveland) - Hodgkin's mixed
Pennsylvania (Allegheny General Hospital) - Reactive lymphadenitis, favor EB
Pennsylvania (Conemaugh Memorial Medical Center) - Infectious mononucleosis
Texas (Houston) - Burkitt's lymphoma
Texas (Lubbock) - Hodgkin's lymphoma, unclassified
Texas (ProPath Associates) - Hodgkin's lymphoma, mixed cellular type (2)
Utah (APA) - Hodgkin's disease, lymphocyte predominant
Washington, DC - Hodgkin's disease, lymphocyte predominance
Canada (CUSE Site Fleurimont) - Burkitt's lymphoma
China (Sir Run Run Shaw Hospital) - Viral lymphadenitis (1); Interfollicular Hodgkin's disease (2)
Japan (Hamamatsu University School of Medicine) - Classical Hodgkin's lymphoma, lymphocyte rich
Japan (Minami-Ku, Sapporo) - Hodgkin's lymphoma (mixed cellularity type)
Saudi Arabia (King Khalid University Hospital) - Anaplastic large cell lymphoma (Ki-1)
Singapore - Hodgkin's lymphoma with progressive transformation of germinal centers
Spain (PROVISA, Vigo) - Anaplastic large cell lymphoma

Case 9 – Diagnosis:

Hodgkin's Disease, Mixed Cellularity, Cervical Lymph Node
T-08200, M-96523

Consultation: Milton Drachenberg, M.D. Loma Linda University School of Medicine. "Mixed Cellularity Hodgkin's Disease."

Case 9 - References:

Taylor CR and Riley CR. Evolving Concepts of the Nature of Hodgkin's Disease. A History. *Ann Diagn Pathol 4*(5):2000; 337-346.
Mueller N, Evans A, Harris NL, et al. Hodgkin's Disease and Epstein-Barr Virus. Altered Antibody Pattern Before Diagnosis. N *Engl J Med* 1989; 320(11):689-695.
Said JW. The Immunochemistry of Hodgkin's Disease. *Semin Diagn Pathol* 1992; 9(4):265-271.
Butler JJ. The Histologic Diagnosis of Hodgkin's Disease. *Semin Diagn Pathol* 1992; 9(4):252-256.

Case No. 10, Accession No. 28676 March 2001

Loma Linda Residents - Extranodal Rosai-Dorfman disease
Mountain View (El Camino Pathology Group) - Rosai-Dorfman disease
Orange (UCI Medical Center Residents) - Rosai-Dorfman disease
Richmond - Sinus histiocytosis with massive lymphadenopathy
Sacramento (UCD Medical Center) - Langerhans histiocytosis
Alabama (Cunningham Pathology) - Rosai-Dorfman disease

Arkansas (Little Rock) - Rosai-Dorfman disease (sinus histiocytosis with massive lymphadenopathy)
Colorado (Unipath) - Granular cell tumor
Florida (Munroe Regional Medical Center) - (1) Inflammatory pseudotumor, (2) Rosai-Dorfman disease
Florida (Winter Haven Hospital) - Rosai-Dorfman disease (1); Melanoma (1)
Illinois (Chicago) - Rosai-Dorfman disease, extranodal
Illinois (Marion Memorial Hospital) - Extranodal Rosai-Dorfman disease
Indiana (Fort Wayne) - Histiocytic disorder (Langerhan's cell granulomatosis), prostate bladder neck, trigone
Kansas (University of Kansas Medical Center) - Rosai-Dorfman disease
Maryland (National Naval Medical Center) - Extranodal Rosai-Dorfman disease (12)
Massachusetts (Caritas Good Samaritan Medical Center) - Malignant neuroectodermal tumor, ? amelanotic melanoma
Massachusetts (Providence Path Associates) - Malignant melanoma
Michigan (St. Mary's Mercy Medical Center) - Histiocytosis X (2)
Michigan (Spectrum Health) - Rosai-Dorfman disease
Missouri (Ferguson Labs) - Schwannoma
Nebraska (Good Samaritan Hospital) - Extranodal sinus histiocytosis with massive lymphadenopathy
New York (East Meadow) - Rosai-Dorfman's disease, urinary bladder
New York (Impath) - Rosai-Dorfman disease (extra nodal SHML)
Ohio (University Hospital of Cleveland) - Rosai-Dorfman (SHML)
Pennsylvania (Allegheny General Hospital) - Xanthogranulomatous pyelonephritis and cystitis
Pennsylvania (Conemaugh Memorial Medical Center) - Xanthogranulomatous cystitis/malakoplakia
Texas (Houston) - Rosai-Dorfman
Texas (Lubbock) - Neurofibroma
Texas (ProPath Associates) - Xanthomatous change in neurofibroma (2)
Utah (APA) - Rosai-Dorfman disease
Washington, DC - Xanthogranuloma
Canada (CUSE Site Fleurimont) - Neurofibroma
China (Sir Run Run Shaw Hospital) - Dendritic interdigitating cell tumor
Japan (Hamamatsu University School of Medicine) - Plasmacytoma
Japan (Minami-Ku, Sapporo) - Rosai-Dorfman disease
Saudi Arabia (King Khalid University Hospital) - Extranodal Rosai Dorfman disease
Singapore - Rosai Dorfman disease
Spain (PROVISA, Vigo) - Rosai-Dorfman disease

Case 10 – Diagnosis:

Extranodal Rosai-Dorfman Disease, Bladder

Directors Note: This case, with detailed discussion, appears on the web as the CTTR's November, 2000 case of the month (cttr.org).
T-74000, M-77940

Consultation: Robert Young, M.D., Massachusetts General Hospital. "Rosai-Dorfman disease."

Case 10 – References:

Foucar E, Rosai J and Dorfman R. Sinus Histiocytosis with Massive Lymphadenopathy (Rosai-Dorfman Disease). Review of the Entity. *Sem in Diag Pathol* 1990; 7(1):19-73.
Veinot JP, Eidus L, et al. Soft Tissue Rosai Dorfman Disease Mimicking Inflammatory Pseudotumor. A Diagnostic Pitfall. *Pathol* 1998; 30(1):14-16.
Govender D and Chetty R. Inflammatory Pseudotumour and Rosai-Dorfman Disease of Soft Tissue. A Histological Continuum?. *J Clin Pathol* 1997; 50(7):620-621.
Montgomery EA, Meis JM, et al. Rosai-Dorfman Disease of Soft Tissue. *Am J Surg Pathol* 1992; 16(2):122-129.
Afzal M, Baez-Giangreco A, et al. Unusual Bilateral Renal Histiocytosis. Extranodal Variant of Rosai-Dorfman Disease. *Arch Pathol Lab Med* 1992; 116(12):1366-1367.