



CALIFORNIA
TUMOR TISSUE REGISTRY

HEMATOPATHOLOGY

Minutes – Subscription A

February 2013



SUGGESTED READING (General Topics from Recent Literature):

- Pitman MB. Revised international consensus guidelines for the management of patients with mucinous cysts. *Cancer Cytopathol* 2012; 120:361-365.
- Jorns JM, Visscher D, et al. Intraoperative frozen section analysis of margins in breast conserving surgery significantly decreases reoperative rates: One year experience at an ambulatory surgical center. *Am J Clin Pathol* 2012; 138:657-669.
- Huss S, Nehles J, et al. B-Catenin (CTNNB1) Mutations and Clinicopathological features of mesenteric desmoids-type fibromatosis. *Histopathol* 2013; 62:294-304.
- Bonzanini M, Morelli L, et al. Cytologic features of triple-negative breast carcinoma. *Cancer Cytopathol* 2012; 120:401-409.
- Litzner BR, Etufugh CN, et al. Mitotic rate in cutaneous melanomas \leq mm in thickness: A prospective study. *Am J Dermatopathol* 2012; 34:827-832.

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FILE DIAGNOSES

CTTR Subscription A

February 2013

Case 1:

Amyloidosis, spleen
T-07000, D-3890

Case 2:

Castleman disease, hyaline vascular type, retroperitoneum
T-Y4600, M-72260

Case 3:

Cutaneous Rosai-Dorfman disease, buttock
T-Y1600, M-72000

Case 4:

Small lymphocytic lymphoma, buttock
T-Y1600, M-96903

Case 5:

Splenic marginal zone lymphoma, spleen
T-07000, M-95903

Case 6:

Diffuse large B-cell lymphoma, thyroid
T-96000, M95903

Case 7:

T-cell lymphoma, spleen
T-07000, M-95903

Case 8:

Diffuse large B-cell lymphoma, axillary lymph node
T-08000, M-95903

Case 9:

Nodular lymphocyte predominant Hodgkin lymphoma (NLPHL), axillary lymph node
T-08000, M-96503

Case 10:

Indeterminate cell tumor of spleen (variant of dendritic neoplasm)
T-07000, M-80001

Alameda (Alameda County Medical Center) - Amyloidosis
Fontana (Kaiser Foundation Hospital) - Amyloid
Hayward/Fremont - AL amyloidosis, prob. LP lymphoma
Long Beach (Long Beach VA) - Splenic amyloidosis
Orange (UCI Medical Center) - Amyloidosis
Orinda (Kaiser Permanente) - Amyloidosis
Oxnard (St. John's Regional Medical Center) - Amyloidosis (2); Amyloidosis associated atraumatic splenic rupture (1)
San Diego (Naval Medical Center) - Amyloidosis
Santa Barbara (Miramonte Lab) - Amyloidosis
Arkansas (Associated Pathologists Laboratory) - Amyloidosis
Connecticut (Danbury Hospital) - Amyloidosis
Delaware (Armed Forces Medical Examiner System) - Amyloidosis
Florida (GastroEnterology Associates of Ocala) - Amyloidosis consistent with plasma cell dyscrasia
Georgia, Atlanta - Amyloidosis; rule out low grade B-cell lymphoma
Illinois (Heartland Regional Medical Center) - Amyloidosis and probable low grade non-Hodgkin's lymphoma
Maryland (University of Maryland) - Marginal zone lymphoma with AL amyloidosis
Minnesota (Fairview Ridges Hospital) - Amyloidosis
Nebraska (Creighton University Medical Center) - Amyloidosis
New York (Erie County Medical Center) - Amyloid deposits in spleen
New York (SUNY Downstate Medical Center) - Amyloidosis (2)
New York (SUNY Stony Brook University Hospital) - Amyloidosis
Pennsylvania (Conemaugh Memorial Medical Center) - Amyloidosis? Lymphoplasmacytosis
Pennsylvania (Lehigh Valley Hospital) - Amyloidosis
Pennsylvania (Magee Women's Hospital) - Amyloidosis
South Carolina (Medical University of South Carolina) - Amyloidosis
Tennessee, Maryville - Amyloid deposits
Texas, Crystal Beach - Amyloidosis
Washington (Seattle VAMC) - Amyloidosis
West Virginia (Greenbrier Valley Medical Center) - Amyloid deposits
Wisconsin, Madison - Amyloidosis
Australia (Royal Hobart Hospital) - Amyloidosis spleen
Brazil (Rua Vicente Beghilli) - Amyloidosis
Ireland (Bon Secours Tralee) - Amyloidosis
Ireland (Kerry General Hospital) - Splenic marginal zone lymphoma with amyloid
Ireland (University College Hospital) - Splenic amyloidosis + suspicious for marginal zone lymphoma
Japan (Asashi General Hospital) - Amyloidosis
Japan (Setagaya-Ku) - Amyloidosis
Japan (University of Yamanashi) - Amyloidosis
Japan (Wakayama Medical University) - Splenic marginal zone lymphoma
Oman (Sultanate of Azaiba) - Amyloidosis
Saudi Arabia (King Kahad Hospital) - Amyloidosis
Saudi Arabia (King Khalid University Hospital) - Amyloidosis of spleen
United Kingdom (Queen Alexandra Hospital) - Amyloidosis

Case 1 - Diagnosis:

Amyloidosis, spleen
 T-07000, D-3890

Case 1 - References:

Amyloidosis-where are we now and where are we heading? *Arch Pathol Lab Med* 2010; Apr;134(4): p545-51.Picken MM.
 Amyloidosis-recent developments. *Semin Arthritis Rheum* 2010; Apr;39(5): p356-68. Pettersson T; Kontinen YT.
 Spontaneous rupture of the spleen in secondary amyloidosis: a patient with rheumatoid arthritis. *Amyloid* 2006; Sep;13(3): p160-3. Aydinli B; Ozturk G, et al.

Splenic amyloidoma. *Haematologica* 2002; Jan;87(1): pEIM02. Maffe GC; Ruga A; Nava A.
 Amyloidosis: a clinico-pathophysiological synopsis. *Semin Cell Dev Biol* 2004; Feb;15(1): p39-44. Hirschfield GM.
 Immunohistochemical classification of amyloid in surgical pathology revisited. *Am J Surg Pathol* 2006; Jun;30(6):
 p673-83. Keibel A; Rocken C.

Case No. 2, Accession No. 31377

February 2013

Alameda (Alameda County Medical Center) - Castleman disease
Fontana (Kaiser Foundation Hospital) - Lymphoma spleen/retroperitoneum
Hayward/Fremont - Splenosis
Long Beach (Long Beach VA) - Accessory spleen consistent with reactive changes
Orange (UCI Medical Center) - Castleman's, vascular type
Orinda (Kaiser Permanente) - Castleman's hyaline vascular type
Oxnard (St. John's Regional Medical Center) - Castleman's disease (3)
San Diego (Naval Medical Center) - Hyaline vascular Castleman disease
Santa Barbara (Miramonte Lab) - T-cell lymphoma
Arkansas (Associated Pathologists Laboratory) - Castleman's disease, hyaline-vascular type
Connecticut (Danbury Hospital) - Castleman disease
Delaware (Armed Forces Medical Examiner System) - Castleman's disease, hyaline vascular variant
Florida (GastroEnterology Associates of Ocala) - Follicular dendritic cell tumor
Georgia, Atlanta - Castleman's disease, hyaline vascular type
Illinois (Heartland Regional Medical Center) - Castleman disease, hyaline vascular type
Maryland (University of Maryland) - Castleman's disease, hyaline vascular variant
Minnesota (Fairview Ridges Hospital) - Castleman's disease, hyaline-vascular
Nebraska (Creighton University Medical Center) - Castleman's disease hyaline vascular type
New York (Erie County Medical Center) - Castleman disease, hyaline vascular variant
New York (SUNY Downstate Medical Center) - Castleman's disease, hyaline variant (2)
New York (SUNY Stony Brook University Hospital) - Castleman's disease, hyaline variant
Pennsylvania (Conemaugh Memorial Medical Center) - Castleman's disease, hyaline variant
Pennsylvania (Lehigh Valley Hospital) - Castleman's disease
Pennsylvania (Magee Women's Hospital) - Castleman's hyaline vascular type
South Carolina (Medical University of South Carolina) - Hyaline vascular Castleman's
Tennessee, Maryville - Vascular transformation of sinus
Texas, Crystal Beach - Progressive transformation germinal centers (probable lymphoma follicular)
Washington (Seattle VAMC) - Castleman's disease, hyaline vascular pattern
West Virginia (Greenbrier Valley Medical Center) - Castleman's disease
Wisconsin, Madison - Castleman's disease
Australia (Royal Hobart Hospital) - Hyaline vascular Castleman disease with angiomatoid proliferation
Brazil (Rua Vicente Beghilli) - Castleman disease
Ireland (Bon Secours Tralee) - Castleman's disease
Ireland (Kerry General Hospital) - Castleman's disease, hyaline vascular type
Ireland (University College Hospital) - Castleman's disease
Japan (Asahi General Hospital) - Castleman's disease, hyaline vascular type
Japan (Setagaya-Ku) - Follicular lymphoma
Japan (University of Yamanashi) - Castleman disease, hyaline vascular type
Japan (Wakayama Medical University) - Castleman's disease
Oman (Sultanate of Azaiba) - Castleman's disease
Saudi Arabia (King Kahad Hospital) - Castleman disease, hyaline vascular
Saudi Arabia (King Khalid University Hospital) - Castleman's disease (hyalinized vascular variant)
United Kingdom (Queen Alexandra Hospital) - Castleman's disease (hyaline vascular type)

Case 2 - Diagnosis:

Castleman disease, hyaline vascular type, retroperitoneum
 T-Y4600, M-72260

Outside Consultation: Scripps Clinic: “Castleman disease, hyaline vascular type, retroperitoneum”

Case 2 - References:

Hyaline vascular-type Castleman's disease of the retroperitoneum. *N Z Med J* 2008; Jul 4;121(1277): p83-5. Liao CM; Chiu YC, et al.
Retroperitoneal Castleman's disease with colon cancer. A rare association. *Clin Transl Oncol* 2008; Apr;10(4): p238-40. Gomez-Raposo C; Nistal M, et al.
Cytogenetic anomalies in hyaline vascular Castleman disease: report of two cases with reappraisal of histogenesis. *Cancer Genet Cytogenet* 2006; Jan 15;164(2): p110-7. Chen WC; Jones D, et al.
Castleman disease of the subcutis and underlying skeletal muscle: report of 6 cases. *Am J Surg Pathol* 2004; May;28(5): p569-77. Kazakov DV; Fanburg-Smith JC; Suster S, et al.
Cytomorphology of hyaline-vascular Castleman's disease: a diagnostic challenge. *Cytopathology* 2007; Jun;18(3): p168-74. Mallik MK; Kapila K, et al.
Castleman's disease: systematic analysis of 416 patients from the literature. *Oncologist* 2011; 16(9): p1316-24. Talat N; Schulte KM.

Case No. 3, Accession No. 31467

February 2013

Alameda (Alameda County Medical Center) - Granulomatous process
Fontana (Kaiser Foundation Hospital) - Lymphoma
Hayward/Fremont - Cutaneous lymphoid hyperplasia, probably injection site granuloma
Long Beach (Long Beach VA) - Inflammatory reactive pseudotumor
Orange (UCI Medical Center) - Panniculitis
Orinda (Kaiser Permanente) - Rosai Dorfman
Oxnard (St. John's Regional Medical Center) - Panniculitis (3)
San Diego (Naval Medical Center) - Cutaneous Rosai-Dorfman
Santa Barbara (Miramonte Lab) - Lymphoma
Arkansas (Associated Pathologists Laboratory) - Subcutaneous lymphoid hyperplasia
Connecticut (Danbury Hospital) - Cutaneous lymphoid hyperplasia
Delaware (Armed Forces Medical Examiner System) - Inflammatory myofibroblastic tumor
Florida (GastroEnterology Associates of Ocala) - Inflammatory pseudotumor
Georgia, Atlanta - Rosai-Dorfman disease
Illinois (Heartland Regional Medical Center) - Panniculitis with lymphocytic vasculitis
Maryland (University of Maryland) - Plasma cell granuloma pending spirocete stain
Minnesota (Fairview Ridges Hospital) - Rosai-Dorfman disease
Nebraska (Creighton University Medical Center) - Lupus panniculitis
New York (Erie County Medical Center) - Lymphomatoid granulomatosis
New York (SUNY Downstate Medical Center) - IgG4 related skin disease (2)
New York (SUNY Stony Brook University Hospital) - Inflammatory pseudotumor
Pennsylvania (Conemaugh Memorial Medical Center) - Panniculitis
Pennsylvania (Lehigh Valley Hospital) - Granulomatous inflammation
Pennsylvania (Magee Women's Hospital) - Granulomatous panniculitis
South Carolina (Medical University of South Carolina) - Subcutaneous panniculitis-like T-cell lymphoma
Tennessee, Maryville - Lupus panniculitis
Texas, Crystal Beach - Hodgkins lymphoma (probable nodular sclerosis)
Washington (Seattle VAMC) - Lobular panniculitis, SLE/lupus profundus
West Virginia (Greenbrier Valley Medical Center) - Reactive plasmacytic hyperplasia
Wisconsin, Madison - Lymphomatoid granulomatosis, skin
Australia (Royal Hobart Hospital) - Extranodal Rosai Dorfman disease
Brazil (Rua Vicente Beghilli) - Chronic inflammatory reaction
Ireland (Bon Secours Tralee) - Extranodal NK/T cell lymphoma
Ireland (Kerry General Hospital) - Follicular dendritic cell tumor
Ireland (University College Hospital) - Lupus profundus
Japan (Asashi General Hospital) - Lupus profundus

Japan (Setagaya-Ku) - Malignant lymphoma
Japan (University of Yamanashi) - Malt lymphoma (2); Pseudolymphoma (1)
Japan (Wakayama Medical University) - Extranodal marginal zone lymphoma
Oman (Sultanate of Azaiba) - Lobular panniculitis/granulomatous
Saudi Arabia (King Kahad Hospital) - Rosai-Dorfman disease (favor)
Saudi Arabia (King Khalid University Hospital) - Panniculitis of septal and lobular type
United Kingdom (Queen Alexandra Hospital) - Angiocentric lymphoma

Case 3 - Diagnosis:

Cutaneous Rosai-Dorfman disease, buttock
 T-Y1600, M-72000

Case 3 - References:

Cutaneous Rosai-Dorfman disease with increased number of eosinophils: coincidence or histologic variant? *Arch Pathol Lab Med* 2011; Dec;135(12): p1597-600. Cangelosi JJ; Prieto VG; Ivan D.
 Cutaneous Rosai-Dorfman disease: a clinical and histopathologic study of 25 cases in China. *Am J Surg Pathol* 2007; Mar;31(3): p341-50. Kong YY; Kong JC, et al.
 Report of two cases of Rosai-Dorfman disease with only skin involvement. *Pathologica* 2008; Oct;100(5): p414-5. Mourmouras V; Falzarano SM; Miracco C.
 Diagnosis of sinus histiocytosis with massive lymphadenopathy (Rosai-Dorfman disease) by fine needle aspiration cytology. *Diagn Cytopathol* 2008; Oct;36(10): p691-5. Kumar B; Karki S; Paudyal P.
 Fine-needle aspiration cytology of Rosai-Dorfman disease of bone. *Diagn Cytopathol* 2008; Jul;36(7): p516-8. Jing X; McHugh JB; Pu RT.

Case No. 4, Accession No. 31497

February 2013

Alameda (Alameda County Medical Center) - CLL/SLL
Fontana (Kaiser Foundation Hospital) - CLL
Hayward/Fremont - SLL/CLL
Long Beach (Long Beach VA) - Small B-cell type lymphoma, WDLL
Orange (UCI Medical Center) - SLL
Orinda (Kaiser Permanente) - CLL/SLL
Oxnard (St. John's Regional Medical Center) - CLL (2); CLL/SLL (1)
San Diego (Naval Medical Center) - CLL/SLL
Santa Barbara (Miramonte Lab) - Chronic lymphocytic leukemia
Arkansas (Associated Pathologists Laboratory) - Chronic lymphocytic leukemia/small lymphocytic lymphoma
Connecticut (Danbury Hospital) - CLL
Delaware (Armed Forces Medical Examiner System) - Cutaneous CLL/SLL
Florida (GastroEnterology Associates of Ocala) - Lymphocytic leukemia, infiltrate (B-cell)
Georgia, Atlanta - CLL/SLL with cutaneous involvement
Illinois (Heartland Regional Medical Center) - Chronic lymphocytic leukemia (CLL/SLL)
Maryland (University of Maryland) - CD5 + Mature B-cell lymphoma, favor CLL/SLL, pending cyclin D1
Minnesota (Fairview Ridges Hospital) - Chronic lymphocytic leukemia/small lymphocytic lymphoma
Nebraska (Creighton University Medical Center) - Small lymphocytic lymphoma (SLL)
New York (Erie County Medical Center) - CLL/SLL
New York (SUNY Downstate Medical Center) - Cutaneous chronic lymphocytic lymphoma (2)
New York (SUNY Stony Brook University Hospital) - Chronic lymphocytic leukemia/small lymphocytic lymphoma
Pennsylvania (Conemaugh Memorial Medical Center) - Chronic lymphocytic leukemia/small lymphocytic lymphoma
Pennsylvania (Lehigh Valley Hospital) - CLL
Pennsylvania (Magee Women's Hospital) - CLL/SLL
South Carolina (Medical University of South Carolina) - CLL/SLL
Tennessee, Maryville - CLL
Texas, Crystal Beach - Lymphoma B-cell
Washington (Seattle VAMC) - Lymphoplasmacytic lymphoma
West Virginia (Greenbrier Valley Medical Center) - Cutaneous lymphoproliferative disorder

Wisconsin, Madison - CLL (small lymphocytic lymphoma)
Australia (Royal Hobart Hospital) - Skin involvement in CLL/small lymphocytic lymphoma
Brazil (Rua Vicente Beghilli) - Non-Hodgkin lymphoma
Ireland (Bon Secours Tralee) - Chronic lymphocytic leukemia
Ireland (Kerry General Hospital) - B-CLL
Ireland (University College Hospital) - CLL
Japan (Asashi General Hospital) - Small lymphocytic lymphoma
Japan (Setagaya-Ku) - Malignant lymphoma
Japan (University of Yamanashi) - Chronic lymphocytic leukemia
Japan (Wakayama Medical University) - Small lymphocytic lymphoma
Oman (Sultanate of Azaiba) - Chronic lymphocytic leukemia
Saudi Arabia (King Kahad Hospital) - Chronic lymphocytic leukemia
Saudi Arabia (King Khalid University Hospital) - Small lymphocytic lymphoma/leukemia
United Kingdom (Queen Alexandra Hospital) - Small lymphocytic lymphoma

Case 4 - Diagnosis:

Small lymphocytic lymphoma, buttock
 T-Y1600, M-96903

Case 4 - References:

Reassessment of small lymphocytic lymphoma in the era of monoclonal B-cell lymphocytosis. *Haematologica* 2011; Aug;96(8): p1144-52. Gibson SE; Swerdlow SH, et al.
 Prognostic factors influencing survival in patients with B-cell small lymphocytic lymphoma. *Am J Hematol* 2004; Sep;77(1): p31-5. Nola M; Pavletic SZ, et al.
 Polyclonal B-cell lymphocytosis mimicking malignant lymphoma in a newborn. *Arch Pathol Lab Med* 2005; Feb;129(2): p251-2 Wong KF; Yuen HL, et al.
 Small B-cell neoplasms with typical mantle cell lymphoma immunophenotypes often include chronic lymphocytic leukemias. *Am J Clin Pathol* 2009; Jan;131(1): p27-32. Ho AK; Hill S, et al.
 Primary cutaneous CD4+ small/medium-sized pleomorphic T-cell lymphoma expresses follicular T-cell markers. *Am J Surg Pathol* 2009; Jan;33(1): p81-90. Rodriguez Pinilla SM; Roncador G, et al.

Case No. 5, Accession No. 31475

February 2013

Alameda (Alameda County Medical Center) - Low grade B-cell lymphoma (non-Hodgkin)
Fontana (Kaiser Foundation Hospital) - Marginal zone lymphoma
Hayward/Fremont - DLBCL of FCC origin
Long Beach (Long Beach VA) - Burkitt lymphoma
Orange (UCI Medical Center) - Atypical Burkitts
Orinda (Kaiser Permanente) - B-cell prolymphocytic leukemia
Oxnard (St. John's Regional Medical Center) - B-cell lymphoma (1); High grade B-cell lymphoma (1)
San Diego (Naval Medical Center) - SMZL
Santa Barbara (Miramonte Lab) - Acute lymphoblastic leukemia
Arkansas (Associated Pathologists Laboratory) - Burkitts lymphoma
Connecticut (Danbury Hospital) - B-cell lymphoma, unclassifiable
Delaware (Armed Forces Medical Examiner System) - Splenic marginal zone lymphoma with t(8;14)
Florida (GastroEnterology Associates of Ocala) - Marginal zone B-cell lymphoma (MZBL)
Georgia, Atlanta - Diffuse large B-cell lymphoma
Illinois (Heartland Regional Medical Center) - Splenic marginal zone lymphoma
Maryland (University of Maryland) - Mature B-cell lymphoma, favor splenic marginal zone lymphoma
Minnesota (Fairview Ridges Hospital) - Burkitts lymphoma
Nebraska (Creighton University Medical Center) - Hairy cell leukemia variant
New York (Erie County Medical Center) - Splenic marginal zone lymphoma
New York (SUNY Downstate Medical Center) - Splenic marginal zone lymphoma
New York (SUNY Stony Brook University Hospital) - Splenic marginal zone lymphoma

Pennsylvania (Conemaugh Memorial Medical Center) - Splenic marginal zone lymphoma
Pennsylvania (Lehigh Valley Hospital) - Splenic marginal zone lymphoma
Pennsylvania (Magee Women's Hospital) - Splenic marginal zone lymphoma
South Carolina (Medical University of South Carolina) - Splenic marginal zone lymphoma
Tennessee, Maryville - Diffuse large B-cell lymphoma
Texas, Crystal Beach - B-cell lymphoma
Washington (Seattle VAMC) - Marginal cell lymphoma
West Virginia (Greenbrier Valley Medical Center) - Marginal zone lymphoma
Wisconsin, Madison - Extra-nodal marginal zone lymphoma
Australia (Royal Hobart Hospital) - Splenic marginal zone lymphoma
Brazil (Rua Vicente Beghilli) - Splenic marginal zone B-cell lymphoma
Ireland (Bon Secours Tralee) - Splenic marginal zone lymphoma
Ireland (Kerry General Hospital) - Splenic marginal zone lymphoma
Ireland (University College Hospital) - Burkitt lymphoma
Japan (Asashi General Hospital) - Splenic diffuse red pulp B-cell lymphoma
Japan (Setagaya-Ku) - Malignant lymphoma
Japan (University of Yamanashi) - Splenic marginal zone lymphoma
Japan (Wakayama Medical University) - B-cell lymphoma, unclassifiable DLBCL and Burkitt lymphoma
Oman (Sultanate of Azaiba) - Burkitt's lymphoma
Saudi Arabia (King Kahad Hospital) - Splenic marginal zone lymphoma
Saudi Arabia (King Khalid University Hospital) - B-cell lymphoma of Burkitt's type
United Kingdom (Queen Alexandra Hospital) - Blastic mantle cell lymphoma

Case 5 - Diagnosis:

Splenic marginal zone lymphoma, spleen
 T-07000, M-95903

Case 5 - References:

Marginal zone lymphoma. *Semin Diagn Pathol* 2011; May;28(2): p135-45. Piris MA; Arribas A; Mollejo M.
 Splenic marginal-zone lymphoma: one or more entities? A histologic, immunohistochemical, and molecular study of 42 cases. *Am J Surg Pathol* 2007; Mar;31(3): p438-46. Papadaki T; Stamatopoulos K, et al.
 Splenic marginal zone lymphoma with micronodular T-cell rich B-cell lymphoma. *Am J Surg Pathol* 2006; Jan;30(1): p128-32. Wang SA; Olson N, et al.
 Splenic marginal zone lymphoma. *Semin Diagn Pathol* 2003; May;20(2): p121-7. Dogan A; Isaacson PG.
 Splenic marginal zone lymphoma. *Blood* 2003; Apr 1;101(7): p2464-72. Franco V; Florena AM; Iannitto E.
 Splenic marginal-zone lymphoma: a distinct clinical and pathological entity. *Lancet Oncol* 2003; Feb;4(2): p95-103. Thieblemont C; Felman P, et al.

Case No. 6, Accession No. 31437

February 2013

Alameda (Alameda County Medical Center) - MALT lymphoma
Fontana (Kaiser Foundation Hospital) - DLBCL
Hayward/Fremont - DLBCL of FCC origin in thyroid
Long Beach (Long Beach VA) - Follicular center cell lymphoma
Orange (UCI Medical Center) - Lymphocytic thyroiditis
Orinda (Kaiser Permanente) - High grade lymphoma
Oxnard (St. John's Regional Medical Center) - DLBCL (1); Primary thyroid B-cell lymphoma (1); Probable 1° thyroid lymphoma – B-cell (1)
San Diego (Naval Medical Center) - ENMZBCL
Santa Barbara (Miramonte Lab) - Lymphoma
Arkansas (Associated Pathologists Laboratory) - Diffuse large B-cell lymphoma
Connecticut (Danbury Hospital) - Marginal zone B-cell lymphoma with features between diffuse large B-cell lymphoma and Burkitt lymphoma
Delaware (Armed Forces Medical Examiner System) - Small B-cell lymphoma, favor marginal zone

Florida (GastroEnterology Associates of Ocala) - Malignant (B-cell) lymphoma in autoimmune thyroiditis
Georgia, Atlanta - Follicular lymphoma, grade 3
Illinois (Heartland Regional Medical Center) - Follicular lymphoma, grade 3
Maryland (University of Maryland) - High grade lymphoma, favor diffuse large B-cell lymphoma
Minnesota (Fairview Ridges Hospital) - Diffuse large cell lymphoma
Nebraska (Creighton University Medical Center) - Diffuse large B-cell lymphoma
New York (Erie County Medical Center) - Favor DLBCL pending LHC
New York (SUNY Downstate Medical Center) - Diffuse large B-cell lymphoma (2)
New York (SUNY Stony Brook University Hospital) - Follicular lymphoma
Pennsylvania (Conemaugh Memorial Medical Center) - NHL favor follicular lymphoma
Pennsylvania (Lehigh Valley Hospital) - Follicular lymphoma
Pennsylvania (Magee Women's Hospital) - Diffuse large cell lymphoma
South Carolina (Medical University of South Carolina) - Diffuse large B-cell lymphoma
Tennessee, Maryville - DLBCL possibly arising in background
Texas, Crystal Beach - Lymphoma thyroid
Washington (Seattle VAMC) - High grade lymphoma
West Virginia (Greenbrier Valley Medical Center) - Large cell lymphoma
Wisconsin, Madison - Low grade B-cell lymphoma of MALT thyroid
Australia (Royal Hobart Hospital) - MALT type lymphoma, thyroid
Brazil (Rua Vicente Beghilli) - Follicular lymphoma (high grade)
Ireland (Bon Secours Tralee) - Follicular lymphoma
Ireland (Kerry General Hospital) - MALT-type lymphoma of thyroid
Ireland (University College Hospital) - DLBCL
Japan (Asahi General Hospital) - Extranodal marginal zone lymphoma of mucosa associated lymphoid tissue
Japan (Setagaya-Ku) - Malignant lymphoma
Japan (University of Yamanashi) - Diffuse large B-cell lymphoma
Japan (Wakayama Medical University) - Extranodal marginal zone lymphoma
Oman (Sultanate of Azaiba) - High grade non-Hodgkin lymphoma (2); Anaplastic large cell lymphoma (1)
Saudi Arabia (King Kahad Hospital) - Diffuse large cell lymphoma
Saudi Arabia (King Khalid University Hospital) - High grade non-Hodgkin's follicular lymphoma with diffuse areas
United Kingdom (Queen Alexandra Hospital) - Diffuse large B-cell lymphoma

Case 6 - Diagnosis:

Diffuse large B-cell lymphoma, thyroid
 T-96000, M-95903

Outside Consultation: Dr. Lester Thompson: "Diffuse large B-cell lymphoma, thyroid."

Case 6 - References:

Pathology quiz case 1. Diffuse large B-cell lymphoma (DLBCL) of the thyroid. *Arch Otolaryngol Head Neck Surg* 2011; Aug;137(8): p829; author reply 832-3. Lee LN; Hasserjian RP, et al.
 Biomarkers of potential prognostic significance in diffuse large B-cell lymphoma. *Cancer* 2006; Jan 15;106(2): p247-57. Wu G; Keating A
 Clinical significance and prognosis of MYC translocation in diffuse large B-cell lymphoma. *Hematol Oncol* 2011; Dec;29(4): p185-9. Zhang HW; Chen ZW, et al.
 The expression of IgM is helpful in the differentiation of primary cutaneous diffuse large B cell lymphoma and follicle center lymphoma. *Leuk Res* 2011; Sep;35(9): p1269-72. Demirkessen C; Tuzuner N, et al.
 Molecular pathogenesis of diffuse large B-cell lymphoma. *Semin Diagn Pathol* 2011; May;28(2): p167-77. Schneider C; Pasqualucci L; Dalla-Favera R.
 Prognostic biomarkers in diffuse large B-cell lymphoma. *J Clin Oncol* 2006; Feb 20;24(6): p995-1007. Lossos IS; Morgensztern D.

Alameda (Alameda County Medical Center) - T-cell lymphoma
Fontana (Kaiser Foundation Hospital) - Gamma delta splenic B-cell lymphoma
Hayward/Fremont - Gamma/delta T-cell lymphoma, NOC (not HS)
Long Beach (Long Beach VA) - Interfollicular T-cell lymphoma
Orange (UCI Medical Center) - T-cell lymphoma
Orinda (Kaiser Permanente) - Peripheral T-cell lymphoma, NOS
Oxnard (St. John's Regional Medical Center) - Hepatosplenic T-cell lymphoma (3)
San Diego (Naval Medical Center) - PTCL, NOS
Santa Barbara (Miramonte Lab) - T-cell lymphoma
Arkansas (Associated Pathologists Laboratory) - Hepatosplenic T-cell lymphoma
Connecticut (Danbury Hospital) - T-cell lymphoma, NOS
Delaware (Armed Forces Medical Examiner System) - Hepatosplenic T-cell lymphoma
Florida (GastroEnterology Associates of Ocala) - Angiofollicular hyperplasia (Castleman disease)
Georgia, Atlanta - Hepatosplenic T-cell lymphoma, alpha-beta subtype
Illinois (Heartland Regional Medical Center) - Peripheral T-cell lymphoma
Maryland (University of Maryland) - Peripheral T-cell lymphoma, not otherwise specified
Minnesota (Fairview Ridges Hospital) - Hepatosplenic T-cell lymphoma
Nebraska (Creighton University Medical Center) - Hepatosplenic T-cell lymphoma
New York (Erie County Medical Center) - Hepatosplenic T-cell lymphoma
New York (SUNY Downstate Medical Center) - Splenic T-cell lymphoma (2)
New York (SUNY Stony Brook University Hospital) - Hepatosplenic T-cell lymphoma
Pennsylvania (Conemaugh Memorial Medical Center) - Hepatosplenic T-cell lymphoma
Pennsylvania (Lehigh Valley Hospital) - Hepatosplenic T-cell lymphoma
Pennsylvania (Magee Women's Hospital) - Hepatosplenic T-cell lymphoma
South Carolina (Medical University of South Carolina) - Hepatosplenic T-cell lymphoma
Tennessee, Maryville - PTCL-NOS
Texas, Crystal Beach - Lymphoma T-cell
Washington (Seattle VAMC) - Hepatosplenic T-cell lymphoma
West Virginia (Greenbrier Valley Medical Center) - Sezary syndrome
Wisconsin, Madison - Bacillary angiomatosis
Australia (Royal Hobart Hospital) - Peripheral T-cell lymphoma with probable hemophagocytosis
Brazil (Rua Vicente Beghilli) - Gamma-delta T-cell lymphoma
Ireland (Bon Secours Tralee) - Hepatosplenic T-cell lymphoma
Ireland (Kerry General Hospital) - Hepatosplenic T-cell lymphoma
Ireland (University College Hospital) - Peripheral T-cell lymphoma, NOS
Japan (Asashi General Hospital) - Hepatosplenic lymphoma
Japan (Setagaya-Ku) - Malignant lymphoma
Japan (University of Yamanashi) - Hepatosplenic T-cell lymphoma
Japan (Wakayama Medical University) - Hepatosplenic T-cell lymphoma
Oman (Sultanate of Azaiba) - Hepatosplenic T-cell lymphoma
Saudi Arabia (King Kahad Hospital) - T-cell lymphoma
Saudi Arabia (King Khalid University Hospital) - Hepatosplenic gamma delta T-cell lymphoma
United Kingdom (Queen Alexandra Hospital) - Peripheral T-cell lymphoma, NOS

Case 7 - Diagnosis:

T-cell lymphoma, spleen
 T-07000, M-95903

Case 7 - References:

Peripheral T-cell lymphoma with gamma/delta phenotype clinically presents with splenomegaly. *Histopathology* 2006; Dec;49(6): p662-4. Campos M; Younger K, et al.
 Hepatosplenic alpha beta T-cell lymphoma: a report of an S100-positive case. *Arch Pathol Lab Med* 2003; Mar;127(3): pe119-22. Dong J; Chong YY; Meyerson HJ.

Hepatosplenic T-cell lymphoma is a distinct rare entity: diagnosis by fine-needle aspiration cytology. *Diagn Cytopathol* 2011; Sep;39(9): p677-80. Kumar R; Dey P, et al..
 Peripheral T-cell lymphomas. *Hematol Oncol Clin North Am* 2009; Aug;23(4): p829-42. Macon WR.
 Splenectomy for hypersplenism caused by adult T-cell leukemia: report of a case. *Surg Today* 2008; 38(12): p1148-51.
 Endo Y; Ohta M, et al.

Case No. 8, Accession No. 31420

February 2013

Alameda (Alameda County Medical Center) - Diffuse large B-cell lymphoma
Fontana (Kaiser Foundation Hospital) - DLBCL
Hayward/Fremont - DLBCL/FCC origin, high grade (MUM 1+)
Long Beach (Long Beach VA) - Diffuse large B-cell lymphoma follicular type
Orange (UCI Medical Center) - Diffuse large B-cell lymphoma
Orinda (Kaiser Permanente) - Blastic mantle cell lymphoma
Oxnard (St. John's Regional Medical Center) - DLBCL (3)
San Diego (Naval Medical Center) - DLBCL anaplastic variant
Santa Barbara (Miramonte Lab) - High grade lymphoma
Arkansas (Associated Pathologists Laboratory) - Follicular lymphoma, grade III
Connecticut (Danbury Hospital) - Blastoid variant of mantle cell lymphoma
Delaware (Armed Forces Medical Examiner System) - Diffuse large B-cell lymphoma
Florida (Gastroenterology Associates of Ocala) - Mixed cellularity Hodgkin lymphoma/MCHL
Georgia, Atlanta - Diffuse large B-cell lymphoma, anaplastic subtype
Illinois (Heartland Regional Medical Center) - Diffuse large B-cell lymphoma, centroblastic
Maryland (University of Maryland) - Diffuse large B-cell lymphoma with germinal center markers and BCL-1+
Minnesota (Fairview Ridges Hospital) - Diffuse large B-cell lymphoma
Nebraska (Creighton University Medical Center) - Mantle cell lymphoma, pleomorphic variant
New York (Erie County Medical Center) - Diffuse large B-cell lymphoma
New York (SUNY Downstate Medical Center) - Diffuse large B-cell lymphoma (2)
New York (SUNY Stony Brook University Hospital) - Diffuse large B-cell lymphoma
Pennsylvania (Conemaugh Memorial Medical Center) - Diffuse large B-cell lymphoma
Pennsylvania (Lehigh Valley Hospital) - Large B-cell lymphoma
Pennsylvania (Magee Women's Hospital) - Diffuse large B-cell lymphoma
South Carolina (Medical University of South Carolina) - Diffuse large B-cell lymphoma
Tennessee, Maryville - Aggressive large B-cell lymphoma, Burkitt
Texas, Crystal Beach - Ki anaplastic T-cell lymphoma
Washington (Seattle VAMC) - High grade, large B-cell lymphoma
West Virginia (Greenbrier Valley Medical Center) - B-cell lymphoma
Wisconsin, Madison - Diffuse large B-cell lymphoma
Australia (Royal Hobart Hospital) - Diffuse large B-cell lymphoma
Brazil (Rua Vicente Beghilli) - Diffuse large B-cell lymphoma
Ireland (Bon Secours Tralee) - Anaplastic diffuse large B-cell lymphoma
Ireland (Kerry General Hospital) - Follicular dendritic cell sarcoma
Ireland (University College Hospital) - DLBCL
Japan (Asahi General Hospital) - Burkitt lymphoma
Japan (Setagaya-Ku) - Hodgkins disease
Japan (University of Yamanashi) - Diffuse large B-cell lymphoma
Japan (Wakayama Medical University) - Diffuse large B-cell lymphoma
Oman (Sultanate of Azaiba) - Diffuse large B-cell lymphoma
Saudi Arabia (King Kahad Hospital) - Diffuse large B-cell lymphoma
Saudi Arabia (King Khalid University Hospital) - High grade and diffuse large B-cell lymphoma
United Kingdom (Queen Alexandra Hospital) - Diffuse large B-cell lymphoma, T-cell rich

Case 8 - Diagnosis:

Diffuse large B-cell lymphoma, axillary lymph node
 T-08000, M-95903

Case 8 - References:

- BCL3 rearrangement, amplification and expression in diffuse large B-cell lymphoma. *Eur J Haematol* 2011; Dec;87(6): p480-5. Ibrahim HA; Amen F, et al.
- Relapsed diffuse large B-cell lymphoma: clinical utility of cell of origin. *J Clin Oncol* 2011; Nov 1;29(31): p4065-6. Vose JM.
- Composite diffuse large B-cell lymphoma and precursor B lymphoblastic lymphoma presenting as a double-hit lymphoma with MYC and BCL2 translocation. *J Clin Pathol* 2011; Nov;64(11): p1032-4. Nanua S; Bartlett NL, et al.
- Spontaneous remission in localized diffuse large B-cell lymphoma. *Pathol Oncol Res* 2011; Sep;17(3): p779-84. Tamas L; Sari E, et al.
- Hypercalcaemia in diffuse large B-cell lymphoma with expression of both parathyroid hormone-related protein and its receptor. *Br J Haematol* 2011; Jul;154(1): p2. Nakayama-Ichihama S; Yokote T, et al.
- Primary cutaneous diffuse large B-cell lymphoma, leg type, with unusual clinical presentation of bluish-reddish multicolored rainbow pattern.. *J Clin Oncol* 2011; Jun 10;29(17): p497-8. Huang CT; Yang WC, et al.

Case No. 9, Accession No. 31432

February 2013

Alameda (Alameda County Medical Center) - Hodgkin lymphoma, nodular lymphocyte predominant

Fontana (Kaiser Foundation Hospital) - Nodular lymphocyte predominant Hodgkin lymphoma

Hayward/Fremont - T-cell rich B-cell lymphoma

Long Beach (Long Beach VA) - Hodgkin lymphoma, lymphocyte predominant type, nodular sclerosing type

Orange (UCI Medical Center) - Hodgkins, nodular lymphocyte predominant

Orinda (Kaiser Permanente) - Favor nodular lymphocyte predominant Hodgkins

Oxnard (St. John's Regional Medical Center) - Hodgkin lymphoma, nodular lymphocyte predominant (3)

San Diego (Naval Medical Center) - NPLHL

Santa Barbara (Miramonte Lab) - Lymphoma

Arkansas (Associated Pathologists Laboratory) - T-cell rich B-cell lymphoma

Connecticut (Danbury Hospital) - Nodular lymphocyte, predominant Hodgkin lymphoma

Delaware (Armed Forces Medical Examiner System) - Nodular LP Hodgkin lymphoma

Florida (GastroEnterology Associates of Ocala) - Lymphocyte, predominant Hodgkin lymphoma (LPHL)

Georgia, Atlanta - Nodular lymphocyte, predominant Hodgkin lymphoma

Illinois (Heartland Regional Medical Center) - Nodular lymphocyte, predominant Hodgkin lymphoma

Maryland (University of Maryland) - Nodular lymphocyte, predominant Hodgkin lymphoma with increased Reed-Sternberg-like cells (possible transformation to high grade lymphoma)

Minnesota (Fairview Ridges Hospital) - Diffuse lymphocyte-predominance Hodgkin lymphoma vs. T-cell-rich large B-cell lymphoma

Nebraska (Creighton University Medical Center) - Nodular lymphocyte predominant Hodgkin lymphoma

New York (Erie County Medical Center) - Atypical lymphoid proliferation (? reactive)

New York (SUNY Downstate Medical Center) - Nodular lymphocyte predominant Hodgkin lymphoma

New York (SUNY Stony Brook University Hospital) - Nodular lymphocyte predominant Hodgkin lymphoma

Pennsylvania (Conemaugh Memorial Medical Center) - Lymphocyte, predominant Hodgkin lymphoma

Pennsylvania (Lehigh Valley Hospital) - Nodular lymphocyte, predominant Hodgkin disease

Pennsylvania (Magee Women's Hospital) - Nodular lymphocyte, predominant Hodgkin lymphoma

South Carolina (Medical University of South Carolina) - Nodular lymphocyte, predominant Hodgkin

Tennessee, Maryville - Nodular lymphocytic, predominant Hodgkin

Texas, Crystal Beach - Hodgkin lymphoma

Washington (Seattle VAMC) - Nodular lymphocyte-predominant Hodgkin lymphoma

West Virginia (Greenbrier Valley Medical Center) - Hodgkin disease

Wisconsin, Madison - Nodular lymphocyte, predominant Hodgkin lymphoma

Australia (Royal Hobart Hospital) - Lymphocyte, predominant Hodgkin lymphoma

Brazil (Rua Vicente Beghilli) - Hodgkin lymphoma, lymphocyte

Ireland (Bon Secours Tralee) - Nodular lymphocyte, predominant Hodgkin lymphoma

Ireland (Kerry General Hospital) - Mixed cellularity Hodgkin lymphoma

Ireland (University College Hospital) - Nodular lymphocyte, predominant Hodgkin lymphoma

[Japan \(Asashi General Hospital\)](#) - Small lymphocytic lymphoma
[Japan \(Setagaya-Ku\)](#) - Hodgkin disease
[Japan \(University of Yamanashi\)](#) - Nodular lymphocyte, predominantly Hodgkin
[Japan \(Wakayama Medical University\)](#) - Hodgkin lymphoma, nodular lymphocyte
[Oman \(Sultanate of Azaiba\)](#) - T-cell rich large B-cell lymphoma, predominant Hodgkin lymphoma
[Saudi Arabia \(King Kahad Hospital\)](#) - Nodular lymphocytic, predominantly Hodgkin
[Saudi Arabia \(King Khalid University Hospital\)](#) - Nodular lymphocyte, predominant Hodgkin lymphoma
[United Kingdom \(Queen Alexandra Hospital\)](#) - Nodular lymphocyte, predominant Hodgkin lymphoma

Case 9 - Diagnosis:

Nodular lymphocyte predominant Hodgkin lymphoma (NLPHL), axillary lymph node
 T-08000, M-96503

Case 9 - References:

Nodular lymphocyte predominant Hodgkin lymphoma: diagnostic pearls and pitfalls. *Arch Pathol Lab Med* 2010; Oct;134(10): p1434-9. Smith LB.
 Nodular lymphocyte-predominant hodgkin lymphoma with atypical T cells: a morphologic variant mimicking peripheral T-cell lymphoma. *Am J Surg Pathol* 2011; Nov;35(11): p1666-78. Sohani AR; Jaffe ES, et al.
 Coexisting and clonally identical classic hodgkin lymphoma and nodular lymphocyte predominant hodgkin lymphoma. *Am J Surg Pathol* 2011; May;35(5): p767-72. Song JY; Eberle FC; Jaffe ES, et al.
 Nodular lymphocyte predominant Hodgkin lymphoma with clusters of LP Cells, acute inflammation, and fibrosis: a syncytial variant. *Am J Surg Pathol* 2009; Nov;33(11): p1725-31. Drakos E; Rassidakis GZ, et al.
 Programmed death 1 expression in variant immunoarchitectural patterns of nodular lymphocyte predominant Hodgkin lymphoma: comparison with CD57 and lymphomas in the differential diagnosis. *Hum Pathol* 2010; Dec;41(12): p1726-34. Churchill HR; Roncador G, et al.

Case No. 10, Accession No. 31382

February 2013

[Alameda \(Alameda County Medical Center\)](#) - Langerhans cell histiocytosis (HX)
[Fontana \(Kaiser Foundation Hospital\)](#) - Histiocytosis X
[Hayward/Fremont](#) - Langerhan cell lymphoma
[Long Beach \(Long Beach VA\)](#) - Langerhans histiocytosis
[Orange \(UCI Medical Center\)](#) - Indeterminate cell histiocytosis
[Orinda \(Kaiser Permanente\)](#) - Indeterminate dendritic cell tumor
[Oxnard \(St. John's Regional Medical Center\)](#) - Langerhans cell histiocytosis (3)
[San Diego \(Naval Medical Center \)](#) - Indeterminate dendritic cell tumor
[Santa Barbara \(Miramonte Lab\)](#) - Langerhans cell histiocytosis
[Arkansas \(Associated Pathologists Laboratory\)](#) - Indeterminate dendritic cell tumor
[Connecticut \(Danbury Hospital\)](#) - Langerhans cell sarcoma
[Delaware \(Armed Forces Medical Examiner System\)](#) - Indeterminate cell histiocytosis
[Florida \(GastroEnterology Associates of Ocala\)](#) - Langerhans cell sarcoma
[Georgia, Atlanta](#) - Langerhan cell histiocytosis
[Illinois \(Heartland Regional Medical Center\)](#) - Langerhans cell histiocytosis
[Maryland \(University of Maryland\)](#) - Intermediate type of dendritic cell neoplasm
[Minnesota \(Fairview Ridges Hospital\)](#) - Langerhan cell histiocytosis
[Nebraska \(Creighton University Medical Center\)](#) - Spleen with neuro granuloma
[New York \(Erie County Medical Center\)](#) - Langerhans cell sarcoma
[New York \(SUNY Downstate Medical Center\)](#) - Langerhans cell histiocytosis (2)
[New York \(SUNY Stony Brook University Hospital\)](#) - Langerhans cell histiocytosis
[Pennsylvania \(Conemaugh Memorial Medical Center\)](#) - Langerhans cell histiocytosis
[Pennsylvania \(Lehigh Valley Hospital\)](#) - Indeterminate cell tumor
[Pennsylvania \(Magee Women's Hospital\)](#) - Langerhan cell sarcoma
[South Carolina \(Medical University of South Carolina\)](#) - Langerhans cell histiocytosis
[Tennessee, Maryville](#) - Indeterminate dendritic cell tumor

Texas, Crystal Beach - Histiocytosis X involving spleen
Washington (Seattle VAMC) - Langerhan histiocytosis
West Virginia (Greenbrier Valley Medical Center) - Dendritic cell sarcoma
Wisconsin, Madison - Langerhans cell histiocytosis
Australia (Royal Hobart Hospital) - Langerhans cell histiocytosis
Brazil (Rua Vicente Beghilli) - Langerhans cell histiocytosis
Ireland (Bon Secours Tralee) - Langerhans cell histiocytosis
Ireland (Kerry General Hospital) - Langerhans cell histiocytosis
Ireland (University College Hospital) - Langerhans cell histiocytosis
Japan (Asahi General Hospital) - Langerhans cell histiocytosis
Japan (Setagaya-Ku) - Indeterminate dendritic cell tumor
Japan (University of Yamanashi) - Langerhans cell histiocytosis
Japan (Wakayama Medical University) - Langerhans cell histiocytosis
Oman (Sultanate of Azaiba) - Langerhans cell histiocytosis
Saudi Arabia (King Kahad Hospital) - Indeterminate dendritic cell tumor histiocytosis, sarcomatoid variant
Saudi Arabia (King Khalid University Hospital) - Langerhans cell histiocytosis
United Kingdom (Queen Alexandra Hospital) - Langerhans cell histiocytosis

Case 10 - Diagnosis:

Indeterminate cell tumor of spleen (variant of dendritic neoplasm)
 T-07000, M-80001

Outside Consultation: City of Hope, “Indeterminate cell tumor of spleen (variant of dendritic neoplasm)”

Case 10 - References:

Indeterminate cell tumor: a rare dendritic neoplasm. *Am J Surg Pathol* 2008; Dec;32(12): p1868-76. Rezk SA; Spagnolo DV; Brynes RK; Weiss LM.
 Cutaneous indeterminate dendritic cell tumor with a protracted relapsing clinical course. *Am J Surg Pathol* 2009; Aug;33(8): p1261-3. Cheuk W; Cheung FY; Lee KC; Chan JK.
 Indeterminate dendritic cell tumour presenting in a patient with follicular lymphoma. *Pathology* 2011; Jun;43(4): p372-5. Bettington A; Lai JK; Kennedy C.
 Follicular dendritic cell sarcoma/tumor: 2 cases of a rare tumor of difficult clinical and pathological diagnosis. *Ann Diagn Pathol* 2009; Aug;13(4): p257-62. Romero-Guadarrama MB; Reyes-Posada O, et al.
 Follicular dendritic cell tumor of the spleen associated with diffuse large B-cell lymphoma. *Hum Pathol* 2008; May;39(5): p776-80. Laurent C; Meggetto F, et al.
 Interdigitating dendritic cell sarcoma of the spleen: report of a case with a review of the literature. *Am J Surg Pathol* 2002; Apr;26(4): p530-7. Kawachi K; Nakatani Y, et al.