



CALIFORNIA
TUMOR TISSUE REGISTRY

GENERAL PATHOLOGY

Minutes – Subscription A

March 2012



SUGGESTED READING (General Topics from Recent Literature):

- The Histologic Squamo-Oxyntic Gap. An Accurate and Reproducible Diagnostic Marker of Gastroesophageal Reflux Disease. Chandrasoma P, Wijetunge S, et al. *Am J Surg Pathol* 2010; 34:1574-1581.
- Fine Needle Aspiration of Renal Cortical Lesions in Adults. Adeniran AJ, Al-Ahmadie H, et al. *Diagn Cytopathol* 2010; 38:710-715.
- “Pediatric-Type” Gastrointestinal Stromal Tumors in Adults. Distinctive Histology Predicts Genotype and Clinical Behavior. Rege TA, Wagner AJ, et al. *Am J Surg Pathol* 2011; 35:495-504.
- An Improved Flow Cytometric Assay for Detection and Discrimination Between Malignant Cells and Atypical Mesothelial Cells, in Serous Cavity Effusions. Kentrou NA, Tsagarakis NJ, et al. *Cytometry B Clin Cytom* 2011; May 25.
- Beyond “Cirrhosis”. A Proposal from the International Liver Pathology Study Group. Hytioglou P, Snover DC, et al. *Am J Clin Pathol* 2012; 137:5-9.

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 A

March 2012

Case 1:

Metastatic synovial sarcoma (biphasic), lung
T-28000, M-90403

Case 2:

Sarcomatoid carcinoma vs. carcinosarcoma, lung
T-28000, M-89803

Case 3:

Gastrointestinal stromal tumor (GIST), stomach
T-63300, M-88903

Case 4:

Wilms tumor (favorable histology), kidney
T-71000, M-89603

Case 5:

Clear cell sarcoma of kidney
T-71000, M-88003

Case 6:

Papillary renal cell carcinoma, kidney
T-71000, M-83123

Case 7:

Papillary serous cystadenoma with borderline features, ovary
T-82000, M-81400

Case 8:

Pheochromocytoma, adrenal (same patient as case #9)
T-93020, M-87000

Case 9:

Clear cell carcinoma, ovary (same patient as case #8)
T-87000, M-83103

Case 10:

Diffuse large B-cell lymphoma (PTLD), spleen
T-07000, M-95903

Arcadia (ABC Laboratories) - Metastatic tumor, possibly granulosa cell tumor of ovary
Baldwin Park (Kaiser Baldwin Park Medical Center) - Metastatic thyroid (papillary) carcinoma (4)
Fontana (Kaiser Permanente) - Synovial sarcoma
Hayward (St. Rose Hospital) - Metastatic thyroid carcinoma, poorly differentiated
Long Beach (Long Beach Veterans Hospital) - Metastatic keratin positive malignant poorly differentiated neoplasm, rule out synovial sarcoma vs. carcinoma
Oakland (Alameda County Medical Center) - Biphasic synovial sarcoma
Orange (UCI Medical Center Residents) - Wilms tumor
Orinda (Kaiser Permanente) - Papillary thyroid carcinoma, tall cell variant
Oxnard (St. John's Regional Medical Center) - Metastatic follicular carcinoma from thyroid
San Diego (Naval Medical Center) - Synovial sarcoma
Santa Barbara (Miramonte Laboratory) - Metastatic synovial sarcoma
Woodland Hills (Kaiser Permanente) - Metastatic synovial sarcoma
Arkansas (Associated Pathologist Laboratory) - Metastatic follicular carcinoma of thyroid origin
Colorado (McKee Medical Center) - Pulmonary blastoma
Colorado (University of Colorado) - Biphasic synovial sarcoma
Florida (Gastroenterology Associates of Ocala) - Endometrioid adenocarcinoma
Georgia, Atlanta - Metastatic carcinoma, endometrioid
Illinois (Heartland Regional Medical Center) - Metastatic papillary thyroid carcinoma
Indiana, Fishers - Synovial sarcoma
Maryland (University of Maryland School of Medicine) - Synovial sarcoma, biphasic
Minnesota (Fairview Ridges Hospital) - Metastatic synovial sarcoma
Mississippi (University of Mississippi Medical Center) - Metastatic biphasic synovial sarcoma
Missouri (Missouri Delta Medical Center) - Stromal sarcoma (1); Adenocarcinoma (1)
Nebraska (Creighton University Medical Center) - Metastatic biphasic neoplasm (GCT vs. synovial sarcoma)
New York (Buffalo General Hospital Residents) - Synovial sarcoma, biphasic
New York (SUNY Health Science Center) - Synovial sarcoma
Ohio (University of Toledo) - Metastatic carcinoma, favor Wilms tumor
Pennsylvania (Drexel University College of Medicine) - Metastatic synovial sarcoma
Pennsylvania (Lehigh Valley Hospital) - Synovial sarcoma
Pennsylvania (Magee Women's Hospital of UPMC) - Metastatic synovial sarcoma
Puerto Rico (University of Puerto Rico) - Metastatic papillary thyroid carcinoma vs. follicular thyroid carcinoma
South Carolina (Lexington Medical Center) - Metastatic papillary thyroid carcinoma
Texas (Crystal Beach) - Adenocarcinoma, possibly thyroid follicular metastatic
Texas, Lubbock - Metastatic papillary of thyroid
Washington (Seattle VAMC) - Malignant neoplasm; carcinosarcoma growth pattern
West Virginia (Greenbrier Valley Medical Center) - Metastatic ovarian adenocarcinoma
Wisconsin (The Medical College of Wisconsin) - Thymic carcinoma vs. synovial sarcoma
Wisconsin, Madison - Metastatic adenocarcinoma, favor thyroid primary, rule out epithelioid synovial sarcoma
Wisconsin (Medical Assessment and Consultation) - Synovial sarcoma metastatic to lung
Australia (Royal Hobart Hospital) - Metastatic synovial sarcoma, biphasic
Australia (Sullivan Nicolaides Pathology) - Synovial sarcoma
Canada (Pasqua Hospital) - Synovial sarcoma
Ireland (Kerry General Hospital) - Metastatic follicular carcinoma of thyroid
Ireland (University Hospital, Galway) - Metastatic synovial sarcoma
Japan (Asashi General Hospital) - Synovial sarcoma
Japan (Setagaya-Ku) - Synovial sarcoma, metastatic (2)
Japan (University of Yamanashi) - Synovial sarcoma
Oman (Khoulia Hospital) - Metastatic follicular carcinoma, thyroid
Saudi Arabia (King Khalid University Hospital) - Neuroendocrine neoplasm probably medullary carcinoma of thyroid gland
United Kingdom (Oxford University) - Synovial sarcoma

Case 1 - Diagnosis:

Metastatic synovial sarcoma (biphasic), lung
T-28000, M-90403

Case 1 - References:

Synovial sarcomas usually metastasize after > 5 years: a multicenter retrospective analysis with minimum follow-up of 10 years for survivors. *Ann Oncol* 2011; Feb;22(2): p458-67. Krieg AH; Hefti F, et al.
Immunohistochemical staining for TLE1 distinguishes synovial sarcoma from histologic mimics. *Am J Clin Pathol* 2011; Jun;135(6): p839-44. Foo WC; Cruise MW; Wick MR; Hornick JL.
Synovial sarcoma is a stem cell malignancy. *Stem Cells* 2010; Jul;28(7): p1119-31 Naka N; Takenaka S, et al.
Pulmonary carcinoid tumor masquerading as a synovial sarcoma. *Int J Surg Pathol* 2011; Feb;19(1): p71-4.. Zhong Y; Wu S, et al.
Cystic primary pulmonary synovial sarcoma presenting as recurrent pneumothorax: report of 4 cases. *Am J Surg Pathol* 2010; Aug;34(8): p1176-9. Cummings NM; Desai S, et al.

Case No. 2, Accession No. 22967

March 2012

Arcadia (ABC Laboratories) - Large cell carcinoma of lung
Baldwin Park (Kaiser Baldwin Park Medical Center) - Sarcomatoid carcinoma (4)
Fontana (Kaiser Permanente) - Carcinosarcoma
Hayward (St. Rose Hospital) - Spindle squamous carcinoma
Long Beach (Long Beach Veterans Hospital) - Poorly differentiated carcinosarcoma vs. granulosa cell tumor
Oakland (Alameda County Medical Center) - Poorly differentiated carcinoma vs. carcinosarcoma
Orange (UCI Medical Center Residents) - Pleomorphic sarcoma, NOS
Orinda (Kaiser Permanente) - Neuroendocrine neoplasm
Oxnard (St. John's Regional Medical Center) - Poorly differentiated sarcoma
San Diego (Naval Medical Center) - Pleomorphic sarcomatoid carcinoma
Santa Barbara (Miramonte Laboratory) - Leiomyosarcoma
Woodland Hills (Kaiser Permanente) - Sarcomatoid carcinoma/pleomorphic carcinoma
Arkansas (Associated Pathologist Laboratory) - Large cell undifferentiated carcinoma
Colorado (McKee Medical Center) - Monophasic synovial sarcoma
Colorado (University of Colorado) - Poorly differentiated synovial sarcoma
Florida (Gastroenterology Associates of Ocala) - Malignant fibrous histiocytoma
Georgia, Atlanta - Sarcomatoid/pleomorphic carcinoma
Illinois (Heartland Regional Medical Center) - Poorly differentiated carcinoma, spindle cell type
Indiana, Fishers - Poorly differentiated carcinoma with sarcomatoid features
Maryland (University of Maryland School of Medicine) - Carcinosarcoma
Minnesota (Fairview Ridges Hospital) - Pleomorphic carcinoma
Mississippi (University of Mississippi Medical Center) - Sarcomatoid carcinoma
Missouri (Missouri Delta Medical Center) - Synovial sarcoma (2)
Nebraska (Creighton University Medical Center) - Sarcomatoid carcinoma
New York (Buffalo General Hospital Residents) - Sarcomatoid carcinoma
New York (SUNY Health Science Center) - Sarcomatoid carcinoma
Ohio (University of Toledo) - Sarcomatoid carcinoma, favor Wilms tumor
Pennsylvania (Drexel University College of Medicine) - Spindle cell squamous cell carcinoma (sarcomatoid carcinoma)
Pennsylvania (Lehigh Valley Hospital) - Sarcomatoid SSC
Pennsylvania (Magee Women's Hospital of UPMC) - Sarcomatoid carcinoma vs. high grade leiomyosarcoma
Puerto Rico (University of Puerto Rico) - Spindle cell carcinoma/synovial sarcoma
South Carolina (Lexington Medical Center) - Spindle cell carcinoma
Texas (Crystal Beach) - Large cell carcinoma with spindle features
Texas, Lubbock - Spindle cell carcinoma
Washington (Seattle VAMC) - Spindle epithelioid, carcinosarcoma mesothelioma/metastatic synovial possible sarcoma
West Virginia (Greenbrier Valley Medical Center) - Sarcomatoid carcinoma

Wisconsin (The Medical College of Wisconsin) - Sarcomatoid carcinoma
Wisconsin, Madison - Sarcomatoid carcinoma
Wisconsin (Medical Assessment and Consultation) - Pleomorphic high grade sarcoma, malignant fibrous histiocytoma
Australia (Royal Hobart Hospital) - Sarcomatoid carcinoma
Australia (Sullivan Nicolaides Pathology) - Sarcomatoid carcinoma
Canada (Pasqua Hospital) - Sarcomatoid carcinoma
Ireland (Kerry General Hospital) - Metastatic synovial sarcoma
Ireland (University Hospital, Galway) - Sarcomatoid carcinoma vs. carcinosarcoma
Japan (Asashi General Hospital) - Spindle cell carcinoma
Japan (Setagaya-Ku) - Synovial sarcoma (2)
Japan (University of Yamanashi) - Synovial sarcoma
Oman (Khoulia Hospital) - Spindle cell/sarcomatoid carcinoma
Saudi Arabia (King Khalid University Hospital) - Undifferentiated large cell carcinoma of lung
United Kingdom (Oxford University) - High grade sarcomatoid carcinoma

Case 2 - Diagnosis:

Sarcomatoid carcinoma vs. carcinosarcoma, lung
 T-28000, M-89803

Case 2 - References:

Sarcomatoid carcinoma of the lung: histologic criteria and common lesions in the differential diagnosis. *Arch Pathol Lab Med* 2010; Jan;134(1): p49-54. Franks TJ; Galvin JR
 Sarcomatoid neoplasms of the lung and pleura. *Arch Pathol Lab Med* 2010; Nov;134(11): p1645-58. Travis WD.
 Pulmonary carcinosarcoma: report of a case with review of the literature. *Int Surg* 2006; Jan-Feb;91(1): p28-32. Luh SP; Wu MH.
 Pulmonary carcinosarcoma: a case report. *Turk Patoloji Derg* 2011; Jan;27(1): p68-72. Bektas SS; Bircan S, et al.

Case No. 3, Accession No. 31418

March 2012

Arcadia (ABC Laboratories) - Gastrointestinal stromal tumor
Baldwin Park (Kaiser Baldwin Park Medical Center) - GIST, malignant (4)
Fontana (Kaiser Permanente) - GIST
Hayward (St. Rose Hospital) - Extra-skeletal myxoid chondrosarcoma
Long Beach (Long Beach Veterans Hospital) - Malignant gastrointestinal stromal tumor (GIST)
Oakland (Alameda County Medical Center) - GIST (malignant features)
Orange (UCI Medical Center Residents) - Chondrosarcoma/GIST with chondroid differentiation
Orinda (Kaiser Permanente) - Wilms tumor
Oxnard (St. John's Regional Medical Center) - Malignant GIST
San Diego (Naval Medical Center) - Epithelioid GIST
Santa Barbara (Miramonte Laboratory) - GIST
Woodland Hills (Kaiser Permanente) - GIST, malignant, epithelioid type
Arkansas (Associated Pathologist Laboratory) - Gastrointestinal stromal tumor (GIST)
Colorado (McKee Medical Center) - Malignant gastrointestinal stromal tumor
Colorado (University of Colorado) - GIST
Florida (Gastroenterology Associates of Ocala) - GIST
Georgia, Atlanta - Gastrointestinal stromal tumor
Illinois (Heartland Regional Medical Center) - Malignant GIST
Indiana, Fishers - GIST
Maryland (University of Maryland School of Medicine) - Gastrointestinal stromal tumor
Minnesota (Fairview Ridges Hospital) - Gastrointestinal stromal tumor
Mississippi (University of Mississippi Medical Center) - Malignant GIST
Missouri (Missouri Delta Medical Center) - Chondrosarcoma, high grade (2)
Nebraska (Creighton University Medical Center) - Malignant GIST
New York (Buffalo General Hospital Residents) - Malignant epithelioid gastrointestinal stromal tumor (GIST)
New York (SUNY Health Science Center) - GIST

Ohio (University of Toledo) - GIST
Pennsylvania (Drexel University College of Medicine) - GIST
Pennsylvania (Lehigh Valley Hospital) - Malignant GIST
Pennsylvania (Magee Women's Hospital of UPMC) - Gastrointestinal stromal sarcoma (GIST)
Puerto Rico (University of Puerto Rico) - Malignant gastrointestinal stromal tumor
South Carolina (Lexington Medical Center) - Gastrointestinal stromal sarcoma
Texas (Crystal Beach) - Gastrointestinal stromal tumor
Texas, Lubbock - Malignant GIST
Washington (Seattle VAMC) - Variable sarcomatoid, malignant GIST
West Virginia (Greenbrier Valley Medical Center) - Gastrointestinal stromal tumor
Wisconsin (The Medical College of Wisconsin) - Malignant gastrointestinal stromal tumor
Wisconsin, Madison - Gastrointestinal stromal tumor
Wisconsin (Medical Assessment and Consultation) - Malignant gastrointestinal stromal tumor
Australia (Royal Hobart Hospital) - Gastrointestinal stromal tumor
Australia (Sullivan Nicolaides Pathology) - GIST
Canada (Pasqua Hospital) - GIST
Ireland (Kerry General Hospital) - Gastrointestinal stromal tumor
Ireland (University Hospital, Galway) - Epithelioid GIST
Japan (Asahi General Hospital) - Gastrointestinal stromal tumor
Japan (Setagaya-Ku) - Mesenchymal chondrosarcoma (2)
Japan (University of Yamanashi) - Gastrointestinal stromal tumor
Oman (Khoulal Hospital) - Malignant gastrointestinal stromal tumor (GIST)
Saudi Arabia (King Khalid University Hospital) - Malignant gastrointestinal stromal tumor
United Kingdom (Oxford University) - Extra-intestinal gastrointestinal stromal tumor (E-GIST)

Case 3 - Diagnosis:

Gastrointestinal stromal tumor (GIST), stomach
 T-63300, M-88903

Case 3 - References:

Towards global consensus in the treatment of gastrointestinal stromal tumor. *Expert Rev Anticancer Ther* 2010; Feb;10(2): p221-32. Reichardt P; Blay JY; Mehren M.
 Gastrointestinal stromal tumors presenting as omental masses--a clinicopathologic analysis of 95 cases. *Am J Surg Pathol* 2009; Sep;33(9): p1267-75. Miettinen M; Sobin LH; Lasota J.
 Keratin-positive gastrointestinal stromal tumor of the stomach mimicking gastric carcinoma: diagnosis confirmed by c-kit mutation analysis. *Diagn Mol Pathol* 2008; Dec;17(4): p241-4. Lippai N; Fule T, et al.
 DOG1 and PKC-c are useful in the diagnosis of KIT-negative gastrointestinal stromal tumors. *Mod Pathol* 2011; Jun;24(6): p866-75. Kang GH; Srivastava A, et al.
 DOG1 utility in diagnosing gastrointestinal stromal tumors on fine-needle aspiration. *Cancer Cytopathol* 2011; Jun 25;119(3): p202-8. Fatima N; Cohen C; Siddiqui MT.

Case No. 4, Accession No. 31371

March 2012

Arcadia (ABC Laboratories) - Wilms tumor
Baldwin Park (Kaiser Baldwin Park Medical Center) - Wilms tumor (4)
Fontana (Kaiser Permanente) - Wilms tumor
Hayward (St. Rose Hospital) - Wilms tumor
Long Beach (Long Beach Veterans Hospital) - Wilms tumor
Oakland (Alameda County Medical Center) - Nephroblastoma
Orange (UCI Medical Center Residents) - Wilms tumor
Orinda (Kaiser Permanente) - Renal medullary carcinoma
Oxnard (St. John's Regional Medical Center) - Wilms
San Diego (Naval Medical Center) - Wilms tumor
Santa Barbara (Miramonte Laboratory) - Wilms tumor
Woodland Hills (Kaiser Permanente) - Nephroblastoma

Arkansas (Associated Pathologist Laboratory) - Nephroblastoma (Wilms tumor)
Colorado (McKee Medical Center) - Wilms tumor
Colorado (University of Colorado) - Wilms tumor (nephroblastoma)
Florida (Gastroenterology Associates of Ocala) - Wilms tumor (triphasic) favorable histology
Georgia, Atlanta - Wilms tumor
Illinois (Heartland Regional Medical Center) - Wilms tumor
Indiana, Fishers - Wilms tumor
Maryland (University of Maryland School of Medicine) - Nephroblastoma
Minnesota (Fairview Ridges Hospital) - Nephroblastoma
Mississippi (University of Mississippi Medical Center) - Wilms tumor
Missouri (Missouri Delta Medical Center) - Wilms tumor (nephroblastoma) (2)
Nebraska (Creighton University Medical Center) - Nephroblastoma
New York (Buffalo General Hospital Residents) - Triphasic Wilms tumor
New York (SUNY Health Science Center) - Wilms tumor
Ohio (University of Toledo) - Wilms tumor
Pennsylvania (Drexel University College of Medicine) - Wilms tumor
Pennsylvania (Lehigh Valley Hospital) - Nephroblastoma
Pennsylvania (Magee Women's Hospital of UPMC) - Wilms tumor
Puerto Rico (University of Puerto Rico) - Wilms tumor
South Carolina (Lexington Medical Center) - Nephroblastoma, unfavorable histology
Texas (Crystal Beach) - Wilms tumor
Texas, Lubbock - Wilms tumor favorable histology
Washington (Seattle VAMC) - Mixed epithelioid sarcomatoid, Wilms tumor
West Virginia (Greenbrier Valley Medical Center) - Nephroblastoma
Wisconsin (The Medical College of Wisconsin) - Wilms tumor, multifocal
Wisconsin, Madison - Wilms tumor
Wisconsin (Medical Assessment and Consultation) - Nephroblastoma (Wilms tumor)
Australia (Royal Hobart Hospital) - Wilms tumor
Australia (Sullivan Nicolaides Pathology) - Wilms tumor
Canada (Pasqua Hospital) - Nephroblastoma
Ireland (Kerry General Hospital) - Wilms tumor
Ireland (University Hospital, Galway) - Wilms tumor
Japan (Asashi General Hospital) - Nephroblastoma
Japan (Setagaya-Ku) - Nephroblastoma (2)
Japan (University of Yamanashi) - Nephroblastoma
Oman (Khoula Hospital) - Wilms tumor (nephroblastoma)
Saudi Arabia (King Khalid University Hospital) - Nephroblastoma (favorable histology)
United Kingdom (Oxford University) - Nephroblastoma/Wilms tumor

Case 4 - Diagnosis:

Wilms tumor (favorable histology), kidney
 T-71000, M-89603

Case 4 - References:

PAX2 expression in Wilms tumors and other childhood neoplasms. *Am J Surg Pathol* 2011; Aug;35(8): p1186-94.
 Davis JL; Matsumura L; Weeks DA; Troxell ML.
 The cytomorphic spectrum of Wilms tumour on fine needle aspiration: a single institutional experience of 110 cases. *Cytopathology* 2011; Feb;22(1): p50-9. Nayak A; Iyer VK; Agarwala S.
 Long-term outcomes for infants with very low risk Wilms tumor treated with surgery alone in National Wilms Tumor Study-5. *Ann Surg* 2010; Mar;251(3): p555-8. Shamberger RC; Anderson JR; Breslow NE; Perlman EJ; Beckwith JB; Weeks DA, et al.
 Desmoplastic small round cell tumor of the kidney mimicking Wilms tumor: a case report and review of the literature. *Appl Immunohistochem Mol Morphol* 2009; Dec;17(6): p557-62 da Silva RC; Medeiros Filho P, et al.

Arcadia (ABC Laboratories) - Clear cell sarcoma
Baldwin Park (Kaiser Baldwin Park Medical Center) - Clear cell sarcoma, kidney (4)
Fontana (Kaiser Permanente) - Congenital mesoblastic nephroma
Hayward (St. Rose Hospital) - Clear cell sarcoma (Kid) vs. metanephric stromal tumor
Long Beach (Long Beach Veterans Hospital) - Clear cell sarcoma vs. rhabdomyosarcoma
Oakland (Alameda County Medical Center) - Clear cell sarcoma of kidney
Orange (UCI Medical Center Residents) - Clear cell sarcoma
Orinda (Kaiser Permanente) - Functional endocrine neoplasm
Oxnard (St. John's Regional Medical Center) - Clear cell sarcoma
San Diego (Naval Medical Center) - Clear cell sarcoma of kidney
Santa Barbara (Miramonte Laboratory) - Clear cell sarcoma
Woodland Hills (Kaiser Permanente) - Clear cell sarcoma of the kidney
Arkansas (Associated Pathologist Laboratory) - Clear cell sarcoma
Colorado (McKee Medical Center) - Mesoblastic nephroma
Colorado (University of Colorado) - Metanephric stromal tumor
Florida (Gastroenterology Associates of Ocala) - Clear cell sarcoma, kidney
Georgia, Atlanta - Clear cell sarcoma of kidney
Illinois (Heartland Regional Medical Center) - Clear cell sarcoma
Indiana, Fishers - Clear cell sarcoma
Maryland (University of Maryland School of Medicine) - Clear cell sarcoma
Minnesota (Fairview Ridges Hospital) - Clear cell sarcoma
Mississippi (University of Mississippi Medical Center) - Mesoblastic nephroma
Missouri (Missouri Delta Medical Center) - Clear cell sarcoma (2)
Nebraska (Creighton University Medical Center) - Clear cell sarcoma of kidney
New York (Buffalo General Hospital Residents) - Clear cell sarcoma
New York (SUNY Health Science Center) - Clear cell sarcoma
Ohio (University of Toledo) - Sarcomatoid renal cell carcinoma
Pennsylvania (Drexel University College of Medicine) - Clear cell sarcoma of the kidney
Pennsylvania (Lehigh Valley Hospital) - Clear cell sarcoma
Pennsylvania (Magee Women's Hospital of UPMC) - Clear cell sarcoma
Puerto Rico (University of Puerto Rico) - Clear cell sarcoma
South Carolina (Lexington Medical Center) - Clear cell sarcoma of kidney
Texas (Crystal Beach) - Mesoblastic nephroma
Texas, Lubbock - Clear cell sarcoma
Washington (Seattle VAMC) - Largely stromal, Wilms tumor
West Virginia (Greenbrier Valley Medical Center) - Clear cell sarcoma
Wisconsin (The Medical College of Wisconsin) - Clear cell sarcoma of kidney
Wisconsin, Madison - Clear cell sarcoma
Wisconsin (Medical Assessment and Consultation) - Clear cell sarcoma of kidney
Australia (Royal Hobart Hospital) - Clear cell sarcoma, kidney
Australia (Sullivan Nicolaides Pathology) - Clear cell sarcoma of kidney
Canada (Pasqua Hospital) - Clear cell sarcoma
Ireland (Kerry General Hospital) - Mesoblastic nephroma
Ireland (University Hospital, Galway) - Clear cell sarcoma
Japan (Asahi General Hospital) - Nephroblastoma
Japan (Setagaya-Ku) - Congenital mesoblastic nephroma (2)
Japan (University of Yamanashi) - Nephroblastoma
Oman (Khoulia Hospital) - Clear cell sarcoma of kidney
Saudi Arabia (King Khalid University Hospital) - Clear cell sarcoma of kidney
United Kingdom (Oxford University) - Clear cell sarcoma

Case 5 - Diagnosis:

Clear cell sarcoma of kidney
T-71000, M-88003

Case 5 - References:

Clear cell sarcoma of the kidney. *J Urol* 2011; Jan;185(1): p279-80. Watts KE; Hansel DE; MacLennan GT.
Clear cell sarcoma of the pediatric kidney: detailed description and analysis of variant histologic patterns of a tumor with many faces. *Adv Anat Pathol* 2001; Mar;8(2): p98-108. Balarezo FS; Joshi VV.
Fine-needle aspiration cytology of clear-cell sarcoma of the kidney: study of eight cases. *Diagn Cytopathol* 2005; Aug;33(2): p83-9. Iyer VK; Agarwala S; Verma K.

Case No. 6, Accession No. 29150

March 2012

Arcadia (ABC Laboratories) - Type 1, papillary carcinoma of kidney
Baldwin Park (Kaiser Baldwin Park Medical Center) - Renal cell carcinoma, papillary (4)
Fontana (Kaiser Permanente) - Papillary renal cell carcinoma
Hayward (St. Rose Hospital) - Papillary renal cell carcinoma
Long Beach (Long Beach Veterans Hospital) - Renal cell carcinoma, papillary type
Oakland (Alameda County Medical Center) - Papillary renal cell carcinoma
Orange (UCI Medical Center Residents) - Papillary renal cell carcinoma, type 1
Orinda (Kaiser Permanente) - High grade urothelial carcinoma
Oxnard (St. John's Regional Medical Center) - Renal cell sarcoma
San Diego (Naval Medical Center) - Papillary renal cell carcinoma with macrophages
Santa Barbara (Miramonte Laboratory) - Papillary renal cell carcinoma
Woodland Hills (Kaiser Permanente) - Papillary renal cell carcinoma
Arkansas (Associated Pathologist Laboratory) - Renal cell carcinoma, collecting duct type
Colorado (McKee Medical Center) - Papillary renal cell carcinoma
Colorado (University of Colorado) - Papillary renal cell carcinoma
Florida (Gastroenterology Associates of Ocala) - Renal cell carcinoma, papillary variant
Georgia, Atlanta - Papillary renal cell carcinoma
Illinois (Heartland Regional Medical Center) - Papillary renal cell carcinoma
Indiana, Fishers - Papillary renal cell carcinoma
Maryland (University of Maryland School of Medicine) - Papillary renal cell carcinoma
Minnesota (Fairview Ridges Hospital) - Papillary renal cell carcinoma
Mississippi (University of Mississippi Medical Center) - Papillary renal cell carcinoma
Missouri (Missouri Delta Medical Center) - Renal cell carcinoma consistent with trabecular and papillary features (2)
Nebraska (Creighton University Medical Center) - Papillary renal cell carcinoma
New York (Buffalo General Hospital Residents) - Papillary renal cell carcinoma
New York (SUNY Health Science Center) - Papillary renal cell carcinoma
Ohio (University of Toledo) - Papillary renal cell carcinoma
Pennsylvania (Drexel University College of Medicine) - Papillary renal cell carcinoma
Pennsylvania (Lehigh Valley Hospital) - Papillary renal cell carcinoma
Pennsylvania (Magee Women's Hospital of UPMC) - Renal cell carcinoma, papillary type
Puerto Rico (University of Puerto Rico) - Papillary renal cell carcinoma
South Carolina (Lexington Medical Center) - Papillary renal cell carcinoma
Texas (Crystal Beach) - Collecting duct carcinoma
Texas, Lubbock - Papillary carcinoma
Washington (Seattle VAMC) - Papillary renal cell carcinoma
West Virginia (Greenbrier Valley Medical Center) - Papillary hypernephroma
Wisconsin (The Medical College of Wisconsin) - Papillary renal cell carcinoma
Wisconsin, Madison - Papillary renal cell carcinoma
Wisconsin (Medical Assessment and Consultation) - Papillary renal cell carcinoma
Australia (Royal Hobart Hospital) - Papillary renal cell carcinoma
Australia (Sullivan Nicolaides Pathology) - Papillary renal cell carcinoma
Canada (Pasqua Hospital) - Papillary renal cell carcinoma

Ireland (Kerry General Hospital) - Papillary renal cell carcinoma
Ireland (University Hospital, Galway) - Solid papillary carcinoma
Japan (Asahi General Hospital) - Papillary renal cell carcinoma
Japan (Setagaya-Ku) - Renal cell carcinoma (2)
Japan (University of Yamanashi) - Papillary renal cell carcinoma, type 2
Oman (Khoula Hospital) - Papillary renal cell carcinoma
Saudi Arabia (King Khalid University Hospital) - Papillary renal cell carcinoma, type 1
United Kingdom (Oxford University) - Papillary renal cell carcinoma, type II

Case 6 - Diagnosis:

Papillary renal cell carcinoma, kidney
T-71000, M-83123

Case 6 - References:

Differential diagnosis of renal tumors with papillary architecture. *Adv Anat Pathol* 2011; Mar;18(2): p120-32. Tickoo SK; Reuter VE.
Renal papillary adenoma--a putative precursor of papillary renal cell carcinoma. *Hum Pathol* 2007; Feb;38(2): p239-46. Wang KL; Weinrach DM, et al.
Morphologic typing of papillary renal cell carcinoma: comparison of growth kinetics and patient survival in 66 cases. *Hum Pathol* 2001; Jun;32(6): p590-5. Delahunt B; Eble JN, et al.
A molecular classification of papillary renal cell carcinoma. *Cancer Res* 2005; Jul 1;65(13): p5628-37. Yang XJ; Tan MH, et al.
Clear-cell papillary renal cell carcinoma: 24 cases of a distinct low-grade renal tumour and a comparative genomic hybridization array study of seven cases. *Histopathology* 2011; Jun;58(7): p1064-71. Adam J; Couturier J, et al.

Case No. 7, Accession No. 31397

March 2012

Arcadia (ABC Laboratories) - Papillary cystadenoma
Baldwin Park (Kaiser Baldwin Park Medical Center) - Serous cystadenofibroma (4)
Fontana (Kaiser Permanente) - Serous cystadenoma
Hayward (St. Rose Hospital) - Serous cystadenoma
Long Beach (Long Beach Veterans Hospital) - Papillary cystic neoplasm, low malignant potential
Oakland (Alameda County Medical Center) - Serous cystadenoma (vs. serous borderline tumor)
Orange (UCI Medical Center Residents) - Serous borderline tumor
Orinda (Kaiser Permanente) - PNET, adamantinoma variant
Oxnard (St. John's Regional Medical Center) - Papillary serous cystadenoma
San Diego (Naval Medical Center) - Cystadenofibroma
Santa Barbara (Miramonte Laboratory) - Papillary serous tumor
Woodland Hills (Kaiser Permanente) - Borderline serous tumor/atypical proliferative serous tumor
Arkansas (Associated Pathologist Laboratory) - Serous cystadenofibroma
Colorado (McKee Medical Center) - Serous cystadenofibroma
Colorado (University of Colorado) - Serous cystadenoma
Florida (Gastroenterology Associates of Ocala) - Serous papillary cystic tumor
Georgia, Atlanta - Papillary serous adenofibroma
Illinois (Heartland Regional Medical Center) - Serous papillary cystadenoma
Indiana, Fishers - Papillary cystadenofibroma
Maryland (University of Maryland School of Medicine) - Serous cystadenofibroma
Minnesota (Fairview Ridges Hospital) - Papillary serous cystadenoma
Mississippi (University of Mississippi Medical Center) - Serous borderline tumor
Missouri (Missouri Delta Medical Center) - Serous cystadenoma (2)
Nebraska (Creighton University Medical Center) - Papillary serous cystadenoma
New York (Buffalo General Hospital Residents) - Serous cystadenofibroma
New York (SUNY Health Science Center) - Serous cystadenoma
Ohio (University of Toledo) - Serous adenofibroma
Pennsylvania (Drexel University College of Medicine) - Serous cystadenofibroma

Pennsylvania (Lehigh Valley Hospital) - Serous papillary cystadenoma
Pennsylvania (Magee Women's Hospital of UPMC) - Serous cystadenofibroma
Puerto Rico (University of Puerto Rico) - Borderline serous cystadenoma
South Carolina (Lexington Medical Center) - Serous cystadenofibroma
Texas (Crystal Beach) - Papillary cystadenoma
Texas, Lubbock - Papillary serous cystadenofibroma of low malignant potential
Washington (Seattle VAMC) - Simple papillary serous cystadenoma
West Virginia (Greenbrier Valley Medical Center) - Borderline papillary serous cystadenoma
Wisconsin (The Medical College of Wisconsin) - Serous borderline tumor associated with cystadenofibroma
Wisconsin, Madison - Borderline serous tumor
Wisconsin (Medical Assessment and Consultation) - Papillary serous cystadenofibroma of low malignant potential, borderline lesion
Australia (Royal Hobart Hospital) - Serous papillary cystadenoma, ovary
Australia (Sullivan Nicolaides Pathology) - Serous borderline tumor
Canada (Pasqua Hospital) - Serous cystadenoma with focal atypia
Ireland (Kerry General Hospital) - Borderline serous neoplasm of ovary
Ireland (University Hospital, Galway) - Serous borderline tumor
Japan (Asashi General Hospital) - Mucinous borderline tumor, endocervical-like
Japan (Setagaya-Ku) - Mucinous cystadenoma (2)
Japan (University of Yamanashi) - Serous cystadenoma
Oman (Khoula Hospital) - Borderline serous cystadenofibroma
Saudi Arabia (King Khalid University Hospital) - Serous cystadenofibroma of ovary
United Kingdom (Oxford University) - Serous cystadenofibroma

Case 7 - Diagnosis:

Papillary serous cystadenoma with borderline features, ovary
 T-82000, M-81400

Case 7 - References:

Ovarian serous low malignant potential (borderline) tumor--does "micropapillary" matter? *Gynecol Oncol* 2010; Apr;117(1): p1-3. Shih Ie M.
 Microinvasion links ovarian serous borderline tumor and grade 1 invasive carcinoma. *Gynecol Oncol* 2007; Jul;106(1): p44-51. Hogg R; Scurry J; Kim SN; Friedlander M; Hacker N.
 Serous tumours of low malignant potential (serous borderline tumours): moving toward detente. *Histopathology* 2005; Sep;47(3): p315-8. Longacre TA; Kempson RL; Hendrickson MR.
 Atypical papillary proliferation in gynecologic patients: a study of 32 pelvic washes. *Diagn Cytopathol* 2005; Feb;32(2): p76-81. Ventura KC; Yang GC; Levine PH.
 Serous borderline tumours of the ovary. *Histopathology* 2005; Sep;47(3): p310-5. Kurman RJ; Seidman JD; Shih IM.
 Papillary serous cystadenofibroma of the ovary--is it really so rare? *Int J Gynaecol Obstet* 2001; Oct;75(1): p85-6. Fatum M; Rojansky N; Shushan A.

Case No. 8, Accession No. 31380a

March 2012

Arcadia (ABC Laboratories) - Cystic pheochromocytoma
Baldwin Park (Kaiser Baldwin Park Medical Center) - Pheochromocytoma (4)
Fontana (Kaiser Permanente) - Pheochromocytoma
Hayward (St. Rose Hospital) - Pheochromocytoma
Long Beach (Long Beach Veterans Hospital) - Pheochromocytoma
Oakland (Alameda County Medical Center) - Pheochromocytoma
Orange (UCI Medical Center Residents) - Pheochromocytoma
Orinda (Kaiser Permanente) - Glioblastoma multiforme
Oxnard (St. John's Regional Medical Center) - Pheochromocytoma
San Diego (Naval Medical Center) - Pheochromocytoma
Santa Barbara (Miramonte Laboratory) - Pheochromocytoma
Woodland Hills (Kaiser Permanente) - Pheochromocytoma

Arkansas (Associated Pathologist Laboratory) - Pheochromocytoma
Colorado (McKee Medical Center) - Malignant pheochromocytoma
Colorado (University of Colorado) - Composite pheochromocytoma
Florida (Gastroenterology Associates of Ocala) - Pheochromocytoma, adrenal
Georgia, Atlanta - Pheochromocytoma
Illinois (Heartland Regional Medical Center) - Pheochromocytoma
Indiana, Fishers - Pheochromocytoma
Maryland (University of Maryland School of Medicine) - Pheochromocytoma
Minnesota (Fairview Ridges Hospital) - Pheochromocytoma
Mississippi (University of Mississippi Medical Center) - Pheochromocytoma
Missouri (Missouri Delta Medical Center) - Pheochromocytoma (2)
Nebraska (Creighton University Medical Center) - Pheochromocytoma
New York (Buffalo General Hospital Residents) - Pheochromocytoma
New York (SUNY Health Science Center) - Pheochromocytoma
Ohio (University of Toledo) - Pheochromocytoma
Pennsylvania (Drexel University College of Medicine) - Pheochromocytoma
Pennsylvania (Lehigh Valley Hospital) - Pheochromocytoma
Pennsylvania (Magee Women's Hospital of UPMC) - Pheochromocytoma
Puerto Rico (University of Puerto Rico) - Pheochromocytoma
South Carolina (Lexington Medical Center) - Pheochromocytoma
Texas (Crystal Beach) - Pheochromocytoma
Texas, Lubbock - Pheochromocytoma
Washington (Seattle VAMC) - Gangliocytic, pheochromocytoma
West Virginia (Greenbrier Valley Medical Center) - Pheochromocytoma
Wisconsin (The Medical College of Wisconsin) - Pheochromocytoma, adrenal
Wisconsin, Madison - Pheochromocytoma
Wisconsin (Medical Assessment and Consultation) - Adrenal pheochromocytoma (adrenal medullary paraganglioma)
Australia (Royal Hobart Hospital) - Pheochromocytoma
Australia (Sullivan Nicolaides Pathology) - Pheochromocytoma
Canada (Pasqua Hospital) - Pheochromocytoma
Ireland (Kerry General Hospital) - Pheochromocytoma
Ireland (University Hospital, Galway) - Pheochromocytoma
Japan (Asashi General Hospital) - Pheochromocytoma
Japan (Setagaya-Ku) - Pheochromocytoma (2)
Japan (University of Yamanashi) - Pheochromocytoma
Oman (Khoula Hospital) - Pheochromocytoma
Saudi Arabia (King Khalid University Hospital) - Pheochromocytoma
United Kingdom (Oxford University) - Pheochromocytoma

Case 8 - Diagnosis:

Pheochromocytoma, adrenal (same patient as case #9)
 T-93020, M-87000

Case 8 - References:

Pheochromocytoma and functional paraganglioma syndrome: no longer the 10% tumor. *J Surg Oncol* 2005; Mar 1;89(3): p193-201. Elder EE; Elder G; Larsson C.
 Should pheochromocytoma size influence surgical approach? A comparison of 90 malignant and 60 benign pheochromocytomas. *Surgery* 2004; Dec;136(6): p1129-37. Shen WT; Sturgeon C; Clark OH; Duh QY; Kebebew E.
 Cytogenetic characterization of 5 pheochromocytomas. *Cancer Genet Cytogenet* 2004; Oct 15;154(2): p163-6
 Gunawan B; Schlomm T; Schulten HJ; Seseke F; Ringert RH; Fuzesi L.
 Pheochromocytoma and medullary thyroid carcinoma: a new genotype-phenotype correlation of the RET protooncogene 891 germline mutation. *J Clin Endocrinol Metab* 2004; Aug;89(8): p4142-5. Jimenez C; Habra MA; Huang SC; El-Naggar A; Shapiro SE; Evans DB; Cote G; Gagel RF.
 Pheochromocytoma associated with neurofibromatosis type 1: concepts and current trends. *World J Surg Oncol* 2010; Mar 10;8:14. Zografos GN; Vasiliadis GK, et al.

Arcadia (ABC Laboratories) - Clear cell carcinoma
Baldwin Park (Kaiser Baldwin Park Medical Center) - Metastatic adenocarcinoma, gallbladder (4)
Fontana (Kaiser Permanente) - Clear cell carcinoma
Hayward (St. Rose Hospital) - SCAT vs. other sex cord tumor
Long Beach (Long Beach Veterans Hospital) - High grade cystic clear cell carcinoma
Oakland (Alameda County Medical Center) - Clear cell carcinoma of ovary
Orange (UCI Medical Center Residents) - Clear cell carcinoma
Orinda (Kaiser Permanente) - Adenoid cystic carcinoma
Oxnard (St. John's Regional Medical Center) - Clear cell adenocarcinoma
San Diego (Naval Medical Center) - Clear cell carcinoma of ovary
Santa Barbara (Miramonte Laboratory) - Clear cell carcinoma
Woodland Hills (Kaiser Permanente) - Clear cell carcinoma
Arkansas (Associated Pathologist Laboratory) - Clear cell carcinoma
Colorado (McKee Medical Center) - Clear cell carcinoma
Colorado (University of Colorado) - Clear cell carcinoma, favor ovarian, rule out metastasis
Florida (Gastroenterology Associates of Ocala) - Clear cell carcinoma
Georgia, Atlanta - Clear cell carcinoma of ovary
Illinois (Heartland Regional Medical Center) - Clear cell carcinoma
Indiana, Fishers - Borderline clear cell adenofibroma
Maryland (University of Maryland School of Medicine) - Clear cell carcinoma
Minnesota (Fairview Ridges Hospital) - Clear cell carcinoma
Mississippi (University of Mississippi Medical Center) - Clear cell carcinoma arising in a borderline clear cell adenofibroma
Missouri (Missouri Delta Medical Center) - Clear cell ovarian cancer (2)
Nebraska (Creighton University Medical Center) - Clear cell carcinoma
New York (Buffalo General Hospital Residents) - Clear cell carcinoma of ovary
New York (SUNY Health Science Center) - Clear cell carcinoma
Ohio (University of Toledo) - Clear cell ovarian carcinoma
Pennsylvania (Drexel University College of Medicine) - Clear cell carcinoma of the ovary
Pennsylvania (Lehigh Valley Hospital) - Clear cell carcinoma
Pennsylvania (Magee Women's Hospital of UPMC) - Clear cell carcinoma
Puerto Rico (University of Puerto Rico) - Clear cell carcinoma/rule out Sertoli cell tumor
South Carolina (Lexington Medical Center) - Clear cell adenocarcinoma
Texas (Crystal Beach) - Clear cell adenocarcinoma
Texas, Lubbock - Clear cell carcinoma
Washington (Seattle VAMC) - Clear cell pleomorphic clear cell carcinoma
West Virginia (Greenbrier Valley Medical Center) - Mucinous cystadenocarcinoma
Wisconsin (The Medical College of Wisconsin) - Clear cell carcinoma, ovary
Wisconsin, Madison - Clear cell carcinoma
Wisconsin (Medical Assessment and Consultation) - Clear cell adenocarcinoma
Australia (Royal Hobart Hospital) - Clear cell carcinoma, ovary
Australia (Sullivan Nicolaides Pathology) - Clear cell adenocarcinoma
Canada (Pasqua Hospital) - Clear cell carcinoma
Ireland (Kerry General Hospital) - Sex cord tumor with annular tubules
Ireland (University Hospital, Galway) - Clear cell carcinoma
Japan (Asashi General Hospital) - Clear cell adenocarcinoma
Japan (Setagaya-Ku) - Clear cell carcinoma (2)
Japan (University of Yamanashi) - Clear cell adenocarcinoma
Oman (Khoula Hospital) - Clear cell carcinoma
Saudi Arabia (King Khalid University Hospital) - Ovarian clear cell carcinoma (mesonephroid)
United Kingdom (Oxford University) - Clear cell carcinoma of ovary

Case 9 - Diagnosis:

Clear cell carcinoma, ovary (same patient as case #8)
T-87000, M-83103

Case 9 - References:

Do clear cell ovarian carcinomas have poorer prognosis compared to other epithelial cell types? A study of 1411 clear cell ovarian cancers. *Gynecol Oncol* 2008; Jun;109(3): p370-6. Chan JK; Teoh D; Hu JM; Shin JY; Osann K; Kapp DS.

Diagnostic value of cytokeratin 7, CD10 and mesothelin in distinguishing ovarian clear cell carcinoma from metastasis of renal clear cell carcinoma. *Histopathology* 2007; Dec;51(6): p874-6. Leroy X; Farine MO; Buob D; Wacrenier A; Copin MC.

Ovarian clear cell carcinoma with choriocarcinomatous differentiation: report of a rare and aggressive tumor. *Int J Gynecol Pathol* 2010; Nov;29(6): p539-45. Hu YJ; Ip PP; Chan KK; Tam KF; Ngan HY

Ovarian clear cell carcinoma with papillary features: a potential mimic of serous tumor of low malignant potential. *Am J Surg Pathol* 2008; Feb;32(2): p269-74. Sangoi AR; Soslow RA; Teng NN; Longacre TA.

Carcinomas of ovary and lung with clear cell features: can immunohistochemistry help in differential diagnosis. *Int J Gynecol Pathol* 2007; Apr;26(2): p134-40. Howell NR; Zheng W; Cheng L; Tornos C; Kane P; Pearl M; Chalas E; Liang SX.

Clear cell carcinoma of the ovary: a report from the first Ovarian Clear Cell Symposium, June 24th, 2010. *Gynecol Oncol* 2011; May 1;121(2): p407-15. Anglesio MS; Carey MS; Kobel M; Mackay H; Huntsman DG.

Case No. 10, Accession No. 31332

March 2012

Arcadia (ABC Laboratories) - Hodgkin's lymphoma

Baldwin Park (Kaiser Baldwin Park Medical Center) - Lymphoma, PTLD, high grade (4)

Fontana (Kaiser Permanente) - PTLD

Hayward (St. Rose Hospital) - Interdigitating cell sarcoma

Long Beach (Long Beach Veterans Hospital) - Large B-cell lymphoma, anaplastic variant

Oakland (Alameda County Medical Center) - Post transplant lymphoproliferative disorder/lymphoma

Orange (UCI Medical Center Residents) - Diffuse large B-cell lymphoma with anaplastic features

Orinda (Kaiser Permanente) - Granulosa cell tumor

Oxnard (St. John's Regional Medical Center) - Post transplant lymphoma

San Diego (Naval Medical Center) - Post transplant lymphoproliferative, DLBCL, anaplastic variant

Santa Barbara (Miramonte Laboratory) - Lymphoma

Woodland Hills (Kaiser Permanente) - Large cell anaplastic lymphoma

Arkansas (Associated Pathologist Laboratory) - High grade B-cell lymphoma

Colorado (McKee Medical Center) - Hodgkin type PTLD

Colorado (University of Colorado) - Hodgkin lymphoma

Florida (Gastroenterology Associates of Ocala) - Diffuse large B-cell lymphoma, plasmoblastic type

Georgia, Atlanta - Anaplastic large cell lymphoma

Illinois (Heartland Regional Medical Center) - Anaplastic large cell lymphoma, post transplant

Indiana, Fishers - High grade B-cell lymphoma vs. ALCL

Maryland (University of Maryland School of Medicine) - Post-transplant lymphoproliferative disorder

Minnesota (Fairview Ridges Hospital) - Post transplant lymphoproliferative disease

Mississippi (University of Mississippi Medical Center) - Hodgkin lymphoma

Missouri (Missouri Delta Medical Center) - Lymphoma (PTLD) (2)

Nebraska (Creighton University Medical Center) - EBV associated PTLD favor Hodgkin-like PTLD

New York (Buffalo General Hospital Residents) - Monomorphic post transplant lymphoproliferative disorder

New York (SUNY Health Science Center) - Post transplantation lymphoproliferative B-cell

Ohio (University of Toledo) - PTLD, large cell lymphoma

Pennsylvania (Drexel University College of Medicine) - Diffuse large B-cell lymphoma

Pennsylvania (Lehigh Valley Hospital) - B-cell lymphoma

Pennsylvania (Magee Women's Hospital of UPMC) - Anaplastic large cell lymphoma

Puerto Rico (University of Puerto Rico) - Post transplant lymphoproliferative disorder, consistent with diffuse large B-cell lymphoma, anaplastic variant

South Carolina (Lexington Medical Center) - Plasmablastic lymphoma
Texas (Crystal Beach) - Anaplastic large cell lymphoma
Texas, Lubbock - Immunoblastic sarcoma
Washington (Seattle VAMC) - Pleomorphic large cell, post transplant lymphoproliferative disorder malignant or histiocytic neoplasm
West Virginia (Greenbrier Valley Medical Center) - Diffuse large B-cell lymphoma
Wisconsin (The Medical College of Wisconsin) - Post transplant lymphoproliferative disorder, monomorphic type, anaplastic B-cell lymphoma
Wisconsin, Madison - Diffuse large B-cell lymphoma
Wisconsin (Medical Assessment and Consultation) - Malignant lymphoma, favor high grade Hodgkin's lymphoma
Australia (Royal Hobart Hospital) - Pleomorphic large B-cell lymphoma spleen
Australia (Sullivan Nicolaides Pathology) - Post transplant lymphoproliferative disease
Canada (Pasqua Hospital) - Monomorphic post transplant lymphoproliferative disease
Ireland (Kerry General Hospital) - Polymorphic post-transplant lymphoproliferative disorder
Ireland (University Hospital, Galway) - Post transplant lymphoproliferative disorder (large B-cell lymphoma)
Japan (Asahi General Hospital) - Post transplant lymphoproliferative disease, classical Hodgkin lymphoma type
Japan (Setagaya-Ku) - Histiocytic sarcoma (2)
Japan (University of Yamanashi) - Malignant lymphoma
Oman (Khoula Hospital) - Monomorphic B-cell post transplant lymphoproliferative disorder
Saudi Arabia (King Khalid University Hospital) - Plasmablastic lymphoma
United Kingdom (Oxford University) - Post transplant lymphoproliferative disorder (PTLD), EBV driven, PTLD, anaplastic large cell lymphoma-like

Case 10 - Diagnosis:

Diffuse large B-cell lymphoma (PTLD), spleen
 T-07000, M-95903

Case 10 - References:

Post-transplant lymphoproliferative disorders: role of viral infection, genetic lesions and antigen stimulation in the pathogenesis of the disease. *Mediterr J Hematol Infect Dis* 2009;1(2): pe2009018. Capello D; Gaidano G.
 Posttransplantation lymphoproliferative disorder in kidney and heart transplant recipients receiving thymoglobulin: a systematic review. *Transplant Proc* 2011; Jun;43(5): p1395-404. Marks WH; Ilesley JN; Dharnidharka VR.
 Role of immunosuppression regimen in post-transplant lymphoproliferative disorder in pediatric heart transplant patients. *J Heart Lung Transplant* 2011; Apr;30(4): p420-5. Dayton JD; Richmond ME, et al.
 Diffuse large B-cell lymphoma, not otherwise specified, associated with coinfection of human herpesvirus 6 and 8. *J Clin Oncol* 2011; Jul 20;29(21): pe636-7. Nakayama-Ichihara S; Yokote T, et al.
 Molecular signatures in the diagnosis and management of diffuse large B-cell lymphoma. *Curr Opin Hematol* 2011; Jul;18(4): p288-92. Sweetenham JW.