



CALIFORNIA
TUMOR TISSUE REGISTRY

GENERAL PATHOLOGY

Minutes – Subscription B

November 2012



SUGGESTED READING (General Topics from Recent Literature):

- Puppa G, Senore C, et al. Diagnostic reproducibility of tumour budding in colorectal cancer. A multicentre multinational study using virtual microscopy. *Histopath* 2012; 61:562-575.
- Hyun T, Barnes M and Tabatabai ZI. The diagnostic utility of D2-40, calretinin, CK5/6, desmin and MOC-31 in the differentiation of mesothelioma from adenocarcinoma in pleural effusion cytology. *Acta Cytol* 2012; 56 (5): 527-532.
- Logan BK, Reinhold LE, et al. Identification of synthetic cannabinoids in herbal incense blends in the Unites States. *J Forensic Sci* 2012; 57:1168-1180.
- Bao F, Green PH and Bhagat g. An update on celiac disease histopathology and the road ahead. *Arch Pathol Lab Med* 2012; 136:735-745.
- Wakely PE, Jr, Ali SZ and Bishop JA. The cytopathology of malignant peripheral nerve sheath tumor. A report of 55 fine-needle aspiration cases. *Cancer Cytopathol* 2012; 120:334-341.

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

November 2012

Case 1:

Cellular neurothekeoma, thigh
T-87000, M-81403

Case 2:

Lymphoepithelial sialadenitis (lymphoepithelial lesion), parotid
T-Y9100, M-80834

Case 3:

Adenoid cystic carcinoma, submandibular gland
T-55300, M-82003

Case 4:

Paraganglioma (“chemodectoma”) neck
T-Y0600, M-86801

Case 5:

Littoral cell angioma, spleen
T-07000, M-91200

Case 6:

Wegener granulomatosis, lung
T-28300, D7695

Case 7:

Chondroid chordoma, sacrum
T-10800, M-92200

Case 8:

Meningothelial meningioma WHO grade 1, frontal-parietal region
T-X2000, M-95300

Case 9:

High grade serous carcinoma with focal clear cell regions, ovary
T-87000, M-80103

Case 10:

Carcinosarcoma (MMMT), uterus
T-87000, M-81403

Costa Mesa - Fibrohistiocytoma
Glendale - Neurothekeoma
Alabama (Cunningham Pathology) - Peripheral nerve sheath tumor (2)
Delaware (Armed Forces Medical Examiner System) - PEComa
Georgia, Atlanta - Plexiform fibrohistiocytic tumor
Illinois (Heartland Regional Medical Center) - Epithelioid neoplasm, NOS
Kansas (Peterson Laboratory Group) - Cellular neurothekeoma (2)
Maryland (University of Maryland) - Cellular neurothekeoma
New York (SUNY Stony Brook University Medical Center) - Neurothekeoma
New York (SUNY Downstate Medical Center) - Cellular neurothekeoma
Ohio (Summa Health System) - Cellular neurothekeoma
Pennsylvania (Drexel University College of Medicine) - Neurothekeoma
Puerto Rico (University of Puerto Rico) - Neurothekeoma
San Diego (Naval Medical Center) - Neurothekeoma
Tennessee, Knoxville - Neurothekeoma
Texas, Crystal Beach - Chondroid lipoma
Texas, Lubbock - Clear cell sarcoma
Wisconsin (Medical College of Wisconsin) - Plexiform fibrohistiocytic tumor
Australia (St. Vincent's Hospital) - Cellular neurothekeoma
Australia (The Western Hospital, Footscray) - Neurothekeoma
Canada (Pasqua Hospital) - Neurothekeoma
Canada, Sherbrooke - Cellular neurothekeoma, thigh
Ireland (University College Hospital) - Metastatic melanoma
Japan (Asahi General Hospital) - Epithelioid schwannoma (1); Giant cell tumor (1)
Japan (University of Yamanashi) - PEComa
Japan, Setagaya-Ku - Clear cell sarcoma
Saudi Arabia (King Fahad Hospital, Hofuf) - Cellular neurothekeoma, left thigh mass
Saudi Arabia (King Khalid University Hospital) - Cellular neurothekeoma
Singapore (Freelance Locum Practice) - Hibernoma
United Kingdom (Oxford University Hospital) - Plexiform neurothekeoma

Case 1 - Diagnosis:

Cellular neurothekeoma, thigh
T-87000, M-81403

Case 1 - References:

Multiple desmoplastic cellular neurothekeomas localized to the face of a 16-year-old boy. *Am J Dermatopathol* 2010; Dec;32(8): p841-5. Garcia-Gutierrez M; Toussaint-Caire S, et al.
Nerve sheath myxoma (neurothekeoma) of the gingiva, a case report and review of the literature. *Head Neck Pathol* 2010; Sep;4(3): p242-5. Safadi RA; Hellstein JW, et al.
Mohs micrographic surgery for the treatment of cellular neurothekeoma and review of its use in surgical management of benign tumors. *Dermatol Surg* 2010; Jul;36(7): p1214-8. Sage RJ; Lopiccolo MC, et al.
Clinical pathologic challenge. Cellular neurothekeoma. *Am J Dermatopathol* 2006; Feb;28(1): p65-6; answer and discussion 87-8. Lane JE; Mullins S; Davis LS.
Fine needle aspiration cytology of neurothekeoma. A case report. *Acta Cytol* 2003; May-Jun;47(3): p485-9. Vaillo Vinagre A; Gutierrez Martin A, et al.

Costa Mesa - Lymphoepithelial lesion (Mikulicz's disease)
Glendale - Benign lymphoepithelial lesion
Alabama (Cunningham Pathology) - MALT lymphoma (2)
Delaware (Armed Forces Medical Examiner System) - Lymphoepithelial sialadenitis

Georgia, Atlanta - Chronic sialoadenitis
Illinois (Heartland Regional Medical Center) - Lymphoepithelial sialadenitis
Kansas (Peterson Laboratory Group) - Lymphoepithelial sialadenitis (2)
Maryland (University of Maryland) - Lymphoepithelial sialadenitis
New York (SUNY Stony Brook University Medical Center) - Chronic sialadenitis
New York (SUNY Downstate Medical Center) - Benign lymphoepithelial lesion
Ohio (Summa Health System) - Benign lymphoepithelial lesion
Pennsylvania (Drexel University College of Medicine) - Mikulicz's disease
Puerto Rico (University of Puerto Rico) - Lymphoepithelial sialadenitis/Benign lymphoepithelial lesion/rule out MALT lymphoma
San Diego (Naval Medical Center) - Lymphoepithelial sialadenitis
Tennessee, Knoxville - Myoepithelial sialadenitis
Texas, Crystal Beach - Lymphoid hyperplasia periductal
Texas, Lubbock - Mikulicz's disease
Wisconsin (Medical College of Wisconsin) - Extranodal marginal zone lymphoma (MALT lymphoma)
Australia (St. Vincent's Hospital) - Lymphoepithelial lesion
Australia (The Western Hospital, Footscray) - Benign lymphoepithelial lesion (Mikulicz disease)
Canada (Pasqua Hospital) - Sjogren syndrome
Canada, Sherbrooke - Lymphoepithelial sialadenitis, parotid
Ireland (University College Hospital) - Chronic lymphoepithelial sialadenitis vs. maltoma. Clonality studies required.
Japan (Asahi General Hospital) - Lymphoepithelial sialadenitis (1); Chronic parotiditis (1)
Japan (University of Yamanashi) - Sialadenitis
Japan, Setagaya-Ku - Chronic sialoadenitis
Saudi Arabia (King Fahad Hospital, Hofuf) - Lymphoepithelial sialadenitis, parotid
Saudi Arabia (King Khalid University Hospital) - Chronic lymphoepithelial sialadenitis
Singapore (Freelance Locum Practice) - Chronic sialadenitis
United Kingdom (Oxford University Hospital) - Lymphoepithelial sialadenitis (MALT) and autoimmune profile, autoimmune diseases

Case 2 - Diagnosis:

Lymphoepithelial sialadenitis (lymphoepithelial lesion), parotid
 T-Y9100, M-80834

Case 2 - References:

Epstein-Barr virus associated lymphoepithelial carcinoma of the parotid gland; a clinicopathological report of three cases. *J Med Assoc Thai* 2006; Sep;89(9): p1536-41. Larbcharoensub N; Tubtong N, et al.
 Lymphoepithelial cyst of the parotid gland: its possible histopathogenesis based on clinicopathologic analysis of 64 cases. *Hum Pathol* 2009; May;40(5): p683-92. Wu L; Cheng J, et al.
 Fine needle aspiration in a malignant lymphoepithelial lesion: a case report. *Acta Cytol* 2008; May-Jun;52(3): p369-72. Kanjanavirojku N; Kularbkaew C, et al.
 Lymphoepithelial carcinoma of the parotid glands and its relationship with benign lymphoepithelial lesions. *Arch Pathol HIV-unrelated benign lymphoepithelial cyst of the parotid glands containing lymphoepithelial lesion--like structures: a report of 3 cases. Int J Surg Pathol* 2009; Dec;17(6): p421-5. Kojima M; Nakamura N, et al.

Case No. 3, Accession No. 24773

November 2012

Costa Mesa - Poorly differentiated adenocarcinoma
Glendale - Salivary duct carcinoma
Alabama (Cunningham Pathology) - Salivary duct carcinoma (2)
Delaware (Armed Forces Medical Examiner System) - Adenoid cystic carcinoma
Georgia, Atlanta - Salivary duct carcinoma
Illinois (Heartland Regional Medical Center) - Salivary duct carcinoma
Kansas (Peterson Laboratory Group) - Salivary duct carcinoma (2)
Maryland (University of Maryland) - Salivary duct carcinoma
New York (SUNY Stony Brook University Medical Center) - Salivary duct carcinoma

New York (SUNY Downstate Medical Center) - Salivary duct carcinoma
Ohio (Summa Health System) - Adenoid cystic carcinoma
Pennsylvania (Drexel University College of Medicine) - Ductal adenocarcinoma, NOS
Puerto Rico (University of Puerto Rico) - Salivary duct carcinoma
San Diego (Naval Medical Center) - Adenocarcinoma, NOS, high grade, with adenoid cystic features
Tennessee, Knoxville - Salivary duct carcinoma
Texas, Crystal Beach - Adenoid cystic carcinoma
Texas, Lubbock - Ductal adenocarcinoma
Wisconsin (Medical College of Wisconsin) - Salivary duct carcinoma
Australia (St. Vincent's Hospital) - Salivary duct carcinoma
Australia (The Western Hospital, Footscray) - Salivary duct carcinoma
Canada (Pasqua Hospital) - Salivary duct carcinoma
Canada, Sherbrooke - Salivary duct carcinoma, high grade, submandibular gland
Ireland (University College Hospital) - Salivary duct carcinoma
Japan (Asahi General Hospital) - Salivary duct carcinoma (1); Adenoid cystic carcinoma (1)
Japan (University of Yamanashi) - Salivary duct carcinoma
Japan, Setagaya-Ku - Adenoid cystic carcinoma
Saudi Arabia (King Fahad Hospital, Hofuf) - Salivary duct carcinoma, predominant in-situ and focal invasive growth pattern, submandibular gland
Saudi Arabia (King Khalid University Hospital) - Salivary duct carcinoma
Singapore (Freelance Locum Practice) - Salivary duct carcinoma
United Kingdom (Oxford University Hospital) - Adenoid cystic carcinoma

Case 3 - Diagnosis:

Adenoid cystic carcinoma, submandibular gland
 T-55300, M-82003

Case 3 - References:

Adenoid cystic carcinoma. *Arch Pathol Lab Med* 2011; Apr;135(4): p511-5. Jaso J; Malhotra R.
 Adenoid cystic carcinoma of the head and neck: a review. *Curr Opin Otolaryngol Head Neck Surg* 2004; Apr;12(2): p127-32. Bradley PJ.
 Perineural invasion in adenoid cystic carcinoma of the salivary glands: a valid prognostic indicator? *Oral Oncol* 2009; Nov;45(11): p936-40. Barrett AW; Speight PM.
 Extra-salivary gland presentations of adenoid cystic carcinoma: a report of three cases. *Diagn Cytopathol* 2006; Jul;34(7): p491-4. Florentine BD; Fink T, et al.
 The sclerosing variant of adenoid cystic carcinoma: a previously unrecognized neoplasm of major salivary glands. *Ann Diagn Pathol* 2006; Feb;10(1): p1-7. Albores-Saavedra J; Wu J; Uribe-Uribe N.
 Adenoid cystic carcinoma of the salivary glands: a 20-year review with long-term follow-up. *Ear Nose Throat J* 2005; Oct;84(10): p662, 664-7. Khafif A; Anavi Y, et al.
 New criteria for cytologic diagnosis of adenoid cystic carcinoma. *Acta Cytol* 2005; Jan-Feb;49(1): p43-50. Hara H; Oyama T; Suda K.
 Extracellular material in adenoid cystic carcinoma of the salivary glands: a comparative cytological study with other salivary myoepithelial tumors. *Diagn Cytopathol* 2004; Jul;31(1): p14-8. Kawahara A; Harada H, et al.

Case No. 4, Accession No. 14376

November 2012

Costa Mesa - Paraganglioma
Glendale - Paraganglioma
Alabama (Cunningham Pathology) - Hemangiopericytoma (2)
Delaware (Armed Forces Medical Examiner System) - Hemangiopericytoma
Georgia, Atlanta - Paraganglioma
Illinois (Heartland Regional Medical Center) - Paraganglioma
Kansas (Peterson Laboratory Group) - Paraganglioma (1); PEComa (1)
Maryland (University of Maryland) - Paraganglioma
New York (SUNY Stony Brook University Medical Center) - Paraganglioma

New York (SUNY Downstate Medical Center) - Paraganglioma
Ohio (Summa Health System) - Paraganglioma
Pennsylvania (Drexel University College of Medicine) - Paraganglioma
Puerto Rico (University of Puerto Rico) - Paraganglioma/myoepithelioma
San Diego (Naval Medical Center) - Paraganglioma
Tennessee, Knoxville - Paraganglioma
Texas, Crystal Beach - Myoepithelioma
Texas, Lubbock - Acinic carcinoma
Wisconsin (Medical College of Wisconsin) - Paraganglioma
Australia (St. Vincent's Hospital) - Paraganglioma
Australia (The Western Hospital, Footscray) - Paraganglioma
Canada (Pasqua Hospital) - Paraganglioma
Canada, Sherbrooke - Paraganglioma, neck
Ireland (University College Hospital) - Paraganglioma
Japan (Asashi General Hospital) - Epithelioid hemangioma (1); Papillary carcinoma of thyroid (1)
Japan (University of Yamanashi) - Paraganglioma
Japan, Setagaya-Ku - Paraganglioma
Saudi Arabia (King Fahad Hospital, Hofuf) - Paraganglioma, right side neck mass
Saudi Arabia (King Khalid University Hospital) - Extraadrenal paraganglioma
United Kingdom (Oxford University Hospital) - Paraganglioma

Case 4 - Diagnosis:

Paraganglioma ("chemodectoma") neck
 T-Y0600, M-86801

Case 4 - References:

Cytologic features of pheochromocytoma and retroperitoneal paraganglioma: a morphologic and immunohistochemical study of 13 cases. *Acta Cytol* 2006; Jul-Aug;50(4): p372-8. Jimenez-Heffernan JA; Vicandi B, et al.
 Multifocal presentation of gangliocytic paraganglioma in the mediastinum and esophagus. *Hum Pathol* 2004; Oct;35(10): p1288-91. Weinrach DM; Wang KL, et al.
 Thyroid-associated paragangliomas. *Thyroid* 2011; Jul;21(7): p725-33. Phitayakorn R; Faquin W, et al.
 Fine needle aspiration diagnosis of carotid body tumor in a case of multiple paragangliomas presenting with facial palsy: a case report. *Acta Cytol* 2010; Jul-Aug;54(4): p635-9. Naniwadekar MR; Jagtap SV, et al.
 Primary paraganglioma of the parathyroid: a case report and clinicopathologic review. *Head Neck Pathol* 2010; Mar;4(1): p37-4. Levy MT; Braun JT; Pennant M; Thompson LD.
 Vagal paraganglioma of the neck: a case report. *Ear Nose Throat J* 2009; Dec;88(12): pE1-3. Choussy O; Babin E, et al.

Case No. 5, Accession No. 31431

November 2012

Costa Mesa - Marginal zone, B lymphoma
Glendale - Littoral cell angioma
Alabama (Cunningham Pathology) - Littoral cell angioma (2)
Delaware (Armed Forces Medical Examiner System) - Littoral cell angioma
Georgia, Atlanta - Littoral cell angioma
Illinois (Heartland Regional Medical Center) - Littoral cell angioma
Kansas (Peterson Laboratory Group) - Littoral cell hemangioma (1); Littoral cell angioma (1)
Maryland (University of Maryland) - Littoral cell angioma
New York (SUNY Stony Brook University Medical Center) - Littoral cell angioma
New York (SUNY Downstate Medical Center) - Littoral cell angioma
Ohio (Summa Health System) - Littoral cell angioma
Pennsylvania (Drexel University College of Medicine) - Littoral cell angioma
Puerto Rico (University of Puerto Rico) - Littoral cell angioma
San Diego (Naval Medical Center) - Littoral cell angioma
Tennessee, Knoxville - Littoral cell angioma

Texas, Crystal Beach - Castleman's disease
Texas, Lubbock - T-cell lymphoma
Wisconsin (Medical College of Wisconsin) - Littoral cell angioma
Australia (St. Vincent's Hospital) - Littoral cell angioma
Australia (The Western Hospital, Footscray) - Littoral cell angioma
Canada (Pasqua Hospital) - Littoral cell angioma
Canada, Sherbrooke - Littoral cell angioma, spleen
Ireland (University College Hospital) - Littoral cell angioma
Japan (Asahi General Hospital) - Littoral cell angioma (1); Castleman's disease (1)
Japan (University of Yamanashi) - Littoral cell angioma
Japan, Setagaya-Ku - Castleman's disease
Saudi Arabia (King Fahad Hospital, Hofuf) - Littoral cell angioma, spleen
Saudi Arabia (King Khalid University Hospital) - Littoral cell angioma
Singapore (Freelance Locum Practice) - Littoral cell angioma
United Kingdom (Oxford University Hospital) - Littoral cell angioma

Case 5 - Diagnosis:

Littoral cell angioma, spleen
 T-07000, M-91200

Case 5 - References:

Littoral cell angioma of the spleen diagnosed by endoscopic ultrasound-guided fine-needle aspiration biopsy. *Diagn Cytopathol* 2011; May;39(5): p318-22. Nagarajan P; Cai G, et al.
 Primary vascular neoplasms unique to the spleen: littoral cell angioma and splenic hamartoma diagnosis by fine-needle aspiration biopsy. *Diagn Cytopathol* 2007; Mar;35(3): p137-42. Ramdall RB; Alasio TM, et al.
 Metastasizing splenic littoral cell hemangioendothelioma. *Am J Surg Pathol* 2006; Aug;30(8): p1036-40. Fernandez S; Cook GW, et al.
 Littoral cell angioma of the spleen in a patient with severe aplastic anaemia. *Haematologica* 2003; Nov;88(11): pECR33. Tholouli E; Roulson JA, et al.
 Littoral-cell angioma as a rare cause of splenomegaly. *Clin Lab Haematol* 2006; Oct;28(5): p317-20. Suvajdzic N; Cemerikic-Martinovic V, et al.
 Small solitary littoral cell angioma associated with splenic marginal zone lymphoma and villous lymphocyte leukaemia in a patient with hepatitis C infection. *Histopathology* 2002; Nov;41(5): p473-5. Chatelain D; Bonte H, et al.

Case No. 6, Accession No. 31202

November 2012

Costa Mesa - Wegener granulomatosis
Glendale - Lymphomatoid granulomatosis
Alabama (Cunningham Pathology) - Wegener's granulomatosis (2)
Delaware (Armed Forces Medical Examiner System) - Wegener's granulomatosis
Georgia, Atlanta - Necrotizing granulomatous inflammation
Illinois (Heartland Regional Medical Center) - Necrotizing granuloma
Kansas (Peterson Laboratory Group) - Inflammatory pseudotumor (2)
Maryland (University of Maryland) - Inflammatory pseudotumor
New York (SUNY Stony Brook University Medical Center) - Granulomatous necrotizing inflammation, Wegener's
New York (SUNY Downstate Medical Center) - Bronchocentric granulomatosis
Ohio (Summa Health System) - Wegener's granulomatosis
Pennsylvania (Drexel University College of Medicine) - Inflammatory myofibroblastic tumor
Puerto Rico (University of Puerto Rico) - Nodular lymphoid hyperplasia/rule out MALT lymphoma
San Diego (Naval Medical Center) - Inflammatory myofibroblastic tumor
Tennessee, Knoxville - Necrotizing granulomatous inflammation
Texas, Crystal Beach - Langerhans cell histiocytosis
Texas, Lubbock - Wegener's granulomatosis
Wisconsin (Medical College of Wisconsin) - Wegener's granulomatosis
Australia (St. Vincent's Hospital) - Wegener's granulomatosis

Australia (The Western Hospital, Footscray) - An area of fibrosis with scattered lymphoplasmacytic inflammatory infiltrate with peribronchial and perivascular distribution. DDx: Lymphomatoid granulomatosis and Wegener's

Canada (Pasqua Hospital) - Granuloma and microabscess, Wegener's

Canada, Sherbrooke - Necrotizing granuloma, lung

Ireland (University College Hospital) - Lymphomatoid granulomatosis

Japan (Asashi General Hospital) - Pulmonary Langerhans cell histiocytosis (1); Extranodal marginal zone lymphoma (1)

Japan (University of Yamanashi) - Inflammatory granulation

Japan, Setagaya-Ku - Wegener's granulomatosis

Saudi Arabia (King Fahad Hospital, Hofuf) - Inflammatory pseudotumor, organizing pneumonia type, right middle lobe mass

Saudi Arabia (King Khalid University Hospital) - Wegener granulomatosis

Singapore (Freelance Locum Practice) - Granulomatous inflammation

United Kingdom (Oxford University Hospital) - Differential diagnosis offered, aspiration pneumonitis, primary

Case 6 - Diagnosis:

Wegener granulomatosis, lung
T-28300, D7695

Case 6 - References:

Mechanisms of Disease: pathogenesis and treatment of ANCA-associated vasculitides. *Nat Clin Pract Rheumatol* 2006; Dec;2(12): p661-70 Kallenberg CG; Heeringa P; Stegeman CA

Wegener's granulomatosis presenting with diffuse alveolar hemorrhage and negative antineutrophilic cytoplasmic antibody test. *Mil Med* 2006; Aug;171(8): p781-3. Han TS; Mahon RT.

Wegener's granulomatosis of the orbit: a clinicopathological study of 15 patients. *Laryngoscope* 2002; Nov;112(11): p1945-50. Fechner FP; Faquin WC; Pilch BZ.

Wegener's granulomatosis is not a granulomatous disease. *Ann Diagn Pathol* 2002; Oct;6(5): p329-33. Heffner DK.

Clinical manifestations and treatment of Wegener's granulomatosis. *Rheum Dis Clin North Am* 2010; Aug;36(3): p507-26. Holle JU; Laudien M; Gross WL.

Arterial aneurysms in Wegener's granulomatosis: case report and literature review. *Semin Arthritis Rheum* 2008; Feb;37(4): p265-8. Arlet JB; Le Thi Huong D, et al.

Case No. 7, Accession No. 31373

November 2012

Costa Mesa - Chordoma

Glendale - Chordoma

Alabama (Cunningham Pathology) - Chondroid chordoma (2)

Delaware (Armed Forces Medical Examiner System) - Chordoma

Georgia, Atlanta - Chordoma

Illinois (Heartland Regional Medical Center) - Chordoma

Kansas (Peterson Laboratory Group) - Chordoma (2)

Maryland (University of Maryland) - Chondroid chordoma

New York (SUNY Stony Brook University Medical Center) - Chordoma

New York (SUNY Downstate Medical Center) - Chordoma

Ohio (Summa Health System) - Chondroid chordoma

Pennsylvania (Drexel University College of Medicine) - Chordoma

Puerto Rico (University of Puerto Rico) - Chondroid chordoma

San Diego (Naval Medical Center) - Chordoma

Tennessee, Knoxville - Chordoma

Texas, Crystal Beach - Chondroma

Texas, Lubbock - Chordoma

Wisconsin (Medical College of Wisconsin) - Chordoma

Australia (St. Vincent's Hospital) - Chordoma

Australia (The Western Hospital, Footscray) - Chondroid chordoma

Canada (Pasqua Hospital) - Chordoma

Canada, Sherbrooke - Chordoma, sacrum
Ireland (University College Hospital) - Chordoma
Japan (Asashi General Hospital) - Chordoma (2)
Japan (University of Yamanashi) - Chordoma
Japan, Setagaya-Ku - Chordoma
Saudi Arabia (King Fahad Hospital, Hofuf) - Chordoma, sacrum
Saudi Arabia (King Khalid University Hospital) - Chordoma
Singapore (Freelance Locum Practice) - Chordoma
United Kingdom (Oxford University Hospital) - Chondroid chordoma

Case 7 - Diagnosis:

Chondroid chordoma, sacrum
 T-10800, M-92200

Case 7 - References:

Chordoma and chondrosarcoma: similar, but quite different, skull base tumors. *Cancer* 2007; Dec 1;110(11): p2457-67.
 Almefty K; Pravdenkova S; Colli BO; Al-Mefty O; Gokden M.
 Chordomas of the skull base and cervical spine: clinical outcomes associated with a multimodal surgical resection combined with proton-beam radiation in 40 patients. *Neurosurg Rev* 2012; Apr;35(2): p171-82; discussion 182-3.
 Yasuda M; Bresson D, et al.
 Base of skull chordomas in children and adolescents: a clinicopathologic study of 73 cases. *Am J Surg Pathol* 2006; Jul;30(7): p811-8. Hoch BL; Nielsen GP, et al.
 Chordoma. Cytomorphologic findings in 14 cases diagnosed by fine needle aspiration. *Acta Cytol* 2003; Mar-Apr;47(2): p202-8. Kay PA; Nascimento AG; Unni KK, et al.
 Chordomas: a histological and immunohistochemical study of cases with and without recurrent tumors. *Clin Neuropathol* 2004; Nov-Dec;23(6): p277-85. Sell M; Sampaolo S, et al.

Case No. 8, Accession No. 31350

November 2012

Costa Mesa - Meningioma
Glendale - Atypical meningioma
Alabama (Cunningham Pathology) - Meningioma (2)
Delaware (Armed Forces Medical Examiner System) - Meningioma
Georgia, Atlanta - Meningioma, rule out metastasis
Illinois (Heartland Regional Medical Center) - Meningioma, grade 1
Kansas (Peterson Laboratory Group) - Meningioma (1); Sclerosing hemangioendothelioma (1)
Maryland (University of Maryland) - Meningothelial meningioma
New York (SUNY Stony Brook University Medical Center) - Meningioma
New York (SUNY Downstate Medical Center) - Meningioma
Ohio (Summa Health System) - Angiomatous meningioma
Pennsylvania (Drexel University College of Medicine) - Meningioma
Puerto Rico (University of Puerto Rico) - Meningioma
San Diego (Naval Medical Center) - Meningioma, grade 1
Tennessee, Knoxville - Meningioma
Texas, Crystal Beach - Meningioma
Texas, Lubbock - Glioblastoma multiforme
Wisconsin (Medical College of Wisconsin) - Meningioma
Australia (St. Vincent's Hospital) - Meningothelial meningioma
Australia (The Western Hospital, Footscray) - Meningioma
Canada (Pasqua Hospital) - Meningioma
Canada, Sherbrooke - Meningioma, brain
Ireland (University College Hospital) - Meningioma
Japan (Asashi General Hospital) - Microcystic meningioma (1); Oligodendroglioma (1)
Japan (University of Yamanashi) - Meningioma
Japan, Setagaya-Ku - Astrocytoma, grade II

Saudi Arabia (King Fahad Hospital, Hofuf) - Meningioma, right frontal-parietal mass
Saudi Arabia (King Khalid University Hospital) - Meningioma
Singapore (Freelance Locum Practice) - Meningioma
United Kingdom (Oxford University Hospital) - Anaplastic oligodendroglioma

Case 8 - Diagnosis:

Meningothelial meningioma WHO grade 1, frontal-parietal region
T-X2000, M-95300

Case 8 - References:

Meningioma with extensive non-calcifying collagenous whorls and glial fibrillary acidic protein expression: new variant of meningioma diagnosed by smear preparation. *Diagn Cytopathol* 2003; May;28(5): p274-7 Pope LZ; Tatsui CE, et al.
Intraventricular meningiomas: a report of 16 cases. *Neurosurg Rev* 2006; Jan;29(1): p30-5. Bertalanffy A; Roessler K, et al.
Recurrent and atypical meningiomas--a multiparametric study using Ki67 labelling index, AgNOR and DNA Feulgen staining. *Clin Neuropathol* 2003; Jul-Aug;22(4): p187-92. Ferraraccio F; Accardo M, et al.
Lipomatous meningioma: a study of five cases with brief review of literature. *Neurol India* 2011; Jan-Feb;59(1): p87-91. Jaiswal AK; Mehrotra A, et al.
Meningioma in the posterior fossa without dural attachment. *Neurol Med Chir (Tokyo)* 2007; Aug;47(8): p364-6. Ishigaki D; Arai H, et al.

Case No. 9, Accession No. 31177

November 2012

Costa Mesa - Serous adenocarcinoma
Glendale - High grade serous carcinoma
Alabama (Cunningham Pathology) - Embryonal carcinoma (2)
Delaware (Armed Forces Medical Examiner System) - High grade transitional cell carcinoma
Georgia, Atlanta - High grade serous carcinoma
Illinois (Heartland Regional Medical Center) - Poorly differentiated carcinoma, clear cell and endometrioid
Kansas (Peterson Laboratory Group) - Clear cell carcinoma (2)
Maryland (University of Maryland) - High grade serous with transitional cell carcinoma
New York (SUNY Stony Brook University Medical Center) - Papillary serous carcinoma
New York (SUNY Downstate Medical Center) - Clear cell carcinoma
Ohio (Summa Health System) - Serous papillary carcinoma with clear cell component
Pennsylvania (Drexel University College of Medicine) - Serous carcinoma of ovary
Puerto Rico (University of Puerto Rico) - Clear cell carcinoma/mixed papillary serous and clear carcinoma
San Diego (Naval Medical Center) - High grade serous carcinoma with clear cell features
Tennessee, Knoxville - High grade papillary serous carcinoma
Texas, Crystal Beach - Transitional carcinoma
Texas, Lubbock - Clear cell carcinoma
Wisconsin (Medical College of Wisconsin) - High grade carcinoma with serous and clear cell components
Australia (St. Vincent's Hospital) - Transitional cell carcinoma
Australia (The Western Hospital, Footscray) - Poorly differentiated serous carcinoma with clear cell changes
Canada (Pasqua Hospital) - Serous carcinoma
Canada, Sherbrooke - Transitional cell carcinoma, ovary
Ireland (University College Hospital) - Clear cell carcinoma
Japan (Asahi General Hospital) - High grade serous carcinoma (1); Clear cell adenocarcinoma (1)
Japan (University of Yamanashi) - Serous adenocarcinoma
Japan, Setagaya-Ku - Small cell carcinoma
Saudi Arabia (King Fahad Hospital, Hofuf) - High grade carcinoma, features transitional cell carcinoma, right ovary
Saudi Arabia (King Khalid University Hospital) - Clear cell carcinoma of ovary
Singapore (Freelance Locum Practice) - Clear cell carcinoma
United Kingdom (Oxford University Hospital) - Ovarian clear cell carcinoma

Case 9 - Diagnosis:

High grade serous carcinoma with focal clear cell regions, ovary
T-87000, M-80103

Case 9 - References:

Ovarian low-grade and high-grade serous carcinoma: pathogenesis, clinicopathologic and molecular biologic features, and diagnostic problems. *Adv Anat Pathol* 2009; Sep;16(5): p267-82. Vang R; Shih Ie M; Kurman RJ.
"Primary peritoneal" high-grade serous carcinoma is very likely metastatic from serous tubal intraepithelial carcinoma: assessing the new paradigm of ovarian and pelvic serous carcinogenesis and its implications for screening for ovarian cancer. *Gynecol Oncol* 2011; Mar;120(3): p470-3. Seidman JD; Zhao P; Yemelyanova A.
High-grade serous carcinoma of the ovary. *Ann Diagn Pathol* 2009; Aug;13(4): p285-90. Westfall D; Roma AA; Silva EG.
Hobnail-like cells in serous borderline tumor do not represent concomitant incipient clear cell neoplasms. *Hum Pathol* 2009; Aug;40(8): p1168-75. Ohishi Y; Oda Y, et al.
The development of high-grade serous carcinoma from atypical proliferative (borderline) serous tumors and low-grade micropapillary serous carcinoma: a morphologic and molecular genetic analysis. *Am J Surg Pathol* 2007; Jul;31(7): p1007-12. Dehari R; Kurman RJ, et al.

Case No. 10, Accession No. 31394**November 2012**

Costa Mesa - Carcinosarcoma
Glendale - Malignant mixed mullerian tumor
Alabama (Cunningham Pathology) - Endometrial stromal sarcoma (2)
Delaware (Armed Forces Medical Examiner System) - Carcinosarcoma
Georgia, Atlanta - Malignant mixed mullerian tumor
Illinois (Heartland Regional Medical Center) - Malignant mixed mullerian tumor (carcinosarcoma)
Kansas (Peterson Laboratory Group) - High grade sarcoma (2)
Maryland (University of Maryland) - Carcinosarcoma (MMMT)
New York (SUNY Stony Brook University Medical Center) - Sarcoma with heterologous features
New York (SUNY Downstate Medical Center) - Carcinosarcoma
Ohio (Summa Health System) - Malignant mixed mullerian tumor
Pennsylvania (Drexel University College of Medicine) - Carcinosarcoma of the uterus
Puerto Rico (University of Puerto Rico) - Carcinosarcoma (malignant mixed mullerian tumor)
San Diego (Naval Medical Center) - Malignant mixed mullerian tumor
Tennessee, Knoxville - Malignant mixed mullerian tumor
Texas, Crystal Beach - Carcinosarcoma
Texas, Lubbock - Malignant mixed mullerian tumor
Wisconsin (Medical College of Wisconsin) - Malignant mixed mullerian tumor
Australia (St. Vincent's Hospital) - Carcinosarcoma
Australia (The Western Hospital, Footscray) - High grade sarcoma (stromal sarcoma vs. leiomyosarcoma)
Canada (Pasqua Hospital) - Malignant mixed mullerian tumor
Canada, Sherbrooke - Leiomyosarcoma, uterus
Ireland (University College Hospital) - Carcinosarcoma
Japan (Asashi General Hospital) - Carcinosarcoma (2)
Japan (University of Yamanashi) - Carcinosarcoma
Japan, Setagaya-Ku - Carcinosarcoma
Saudi Arabia (King Fahad Hospital, Hofuf) - Carcinosarcoma (malignant mixed mullerian tumor), uterus
Saudi Arabia (King Khalid University Hospital) - Malignant mixed mullerian tumor
Singapore (Freelance Locum Practice) - Undifferentiated sarcoma
United Kingdom (Oxford University Hospital) - Carcinosarcoma with sarcomatous features

Case 10 - Diagnosis:

Carcinosarcoma (MMMT), uterus
T-87000, M-81403

Case 10 - References:

- Carcinosarcoma of the uterus: a case report and review of the literature. *Eur J Gynaecol Oncol* 2008; 29(5): p531-4. Spaziani E; Picchio M, et al.
- Efficacy and safety of imatinib mesylate (Gleevec) and immunohistochemical expression of c-Kit and PDGFR-beta in a Gynecologic Oncology Group Phase II Trial in women with recurrent or persistent carcinosarcomas of the uterus. *Gynecol Oncol* 2010; May;117(2): p248-54. Huh WK; Sill MW, et al.
- Determining predominating histologic component in malignant mixed mullerian tumors: is it worth it? *Int J Gynecol Cancer* 2008; Jul-Aug;18(4): p809-12. Ozguroglu M; Bilici A, et al.
- An abnormal cervicovaginal cytology smear in uterine carcinosarcoma is an adverse prognostic sign: analysis of 25 cases. *Am J Clin Pathol* 2004; Sep;122(3): p434-9. Snyder MJ; Robboy SJ, et al.
- Uterine carcinosarcoma with complete sarcomatous overgrowth mimicking pure embryonal rhabdomyosarcoma. *Int J Gynecol Pathol* 2003; Jan;22(1): p89-91. Donner LR.
- Carcinosarcomas (malignant mullerian mixed tumors) of the uterus and ovary: a genetic study with special reference to histogenesis. *Int J Gynecol Pathol* 2003; Oct;22(4): p368-73. Jin Z; Ogata S, et al.