

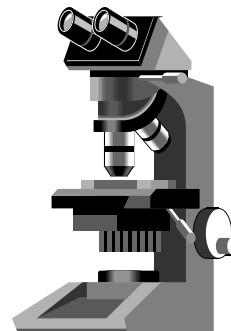


CALIFORNIA
TUMOR TISSUE REGISTRY

GENERAL PATHOLOGY

Minutes – Subscription B

April 2011



SUGGESTED READING (General Topics from Recent Literature):

Atypical Glandular Cells (AGC):ThinPrep Imaging System (TIS), Manual Screening (MS), and Correlation With Hybrid Capture 2 (HC2) HPV DNA Testing. Sireci An, Crapanzano JP, et al. *Diagn Cytopathol* 2010; 38:705-709.

Clinicopathologic Study of 85 Colorectal Serrated Adenocarcinomas: Further Insights Into the Full Recognition of a New Subset of Colorectal Carcinoma. Garcia-Solano J, Perez-Guillermo M, et al. *Hum Pathol* 2010; 41:1359-1368.

Unique Patterns of Tumor Growth Related With the Risk of Lymph Node Metastasis in Papillary Thyroid Carcinoma. *Mod Pathol* 2010; 23:1201-1208.

Association of Adenocarcinomas of the Distal Esophagus, “Gastroesophageal Junction,” and “Gastric Cardia” With Gastric Pathology. Wijetunge S, Ma Y, et al. *Am J Surg Pathol* 2010; 34:1521-1527.

Specimen Labeling Errors in Surgical Pathology: An 18-Month Experience. Layfield LJ and Anderson GM. *Am J Clin Pathol* 2010; 134:466-470.

California Tumor Tissue Registry
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Loma Linda University School of Medicine
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FILE DIAGNOSES

CTTR Subscription B

April 2011

Case 1:

Thymic hyperplasia with cyst(s)
T-98000, M-72000

Case 2:

Adrenal cortical carcinoma, adrenal
T-93000, M-83703

Case 3:

Partially treated Graves' disease with treatment effects (propylthiouracil), thyroid
T-96000, D-2193

Case 4:

Papillary carcinoma, tall cell variant, thyroid
T-96100, M-80503

Case 5:

Merkel cell carcinoma, scalp
T-Y0160, E-8814

Case 6:

Phyllodes tumor, breast
T-04000, M-90213

Case 7:

Myxoid spindle cell lipoma, back
T-Y1100, M-88570

Case 8:

Mixed malignant germ cell tumor, predominantly seminoma and embryonal carcinoma, testis
T-78000, M-86310

Case 9:

Metastatic melanoma, axillary lymph nodes
T-04000, M-87203

Case 10:

Renal cell carcinoma, clear cell type, kidney
T-71000, M-83212

Canoga Park - Multilocular thymic cyst with hyperplasia
Carlsbad (Genoptix Medical Laboratory) - Acquired multilocular thymic cyst
Glendale - Thymic cyst
Loma Linda (Loma Linda University) - Persistent thymus tissue, thymic hyperplasia
Newport Beach (College Hospital) - Thyroglossal duct cyst
San Diego (Naval Medical Center) - Thymic cyst
Florida (Munroe Medical Center) - Brachial cleft cyst
Florida (Naples Pathology Associates) - Thymoma
Georgia, Atlanta - Thymic hyperplasia
Illinois (Heartland Regional Medical Center) - Thymic cyst with lymphoid hyperplasia
Kansas (Coffeyville Regional Medical Center) - Thymic cyst
Kansas (Peterson Laboratory Services) - Cystic thymoma
Maryland (University of Maryland) - Multilocular thymic cyst
Massachusetts (BWH-Pathology) - Multilocular thymic cysts
Michigan (Henry Ford Hospital) - Multilocular thymic cyst
New Mexico (University of New Mexico) - Thymoma, type B
New York (SUNY Downstate Medical Center Residents) - Multilocular thymic cyst with lymphoid hyperplasia
New York (SUNY Stony Brook University Hospital) - Thymic cyst
Ohio (University of Toledo College of Medicine Residents) - Thymic cyst, thymus
Pennsylvania (Conemaugh Valley Memorial Hospital) - Thymic cyst, multilocular
Pennsylvania (Drexel University College of Medicine) - Multilocular thymic cyst
Puerto Rico (University of Puerto Rico School of Medicine) - Thymoma, type B1
Tennessee, Knoxville - Multilobular thymic cyst
Texas, Crystal Beach - Lymphocytic thymoma
Texas, Lubbock - Thymic cyst
Wisconsin, Madison - Benign thymic cyst
Australia (Royal Prince Alfred Hospital) - Multilocular thymic cyst
Australia (St. Vincent's Hospital, Sydney) - Thymic cyst
Canada (Pasqua Hospital) - Thymic cyst
Canada (University of Sherbrooke) - Cystic thymoma
Ireland (University College Hospital, Galway) - Thymic cyst
Japan (Asashi General Hospital) - Thymic cyst
Japan, Tokyo (Setagaya-Ku) - Thymoma
Japan (University of Yamanashi) - Thymic cyst
Saudi Arabia (King Khalid University Hospital) - Thymic hyperplasia with cyst (4); Cystic thymoma (5)
Singapore (Freelance/ Locum Practice) - Thymic cyst
Spain (Provisa Medical Center) - Multilocular thymic cyst
The Netherlands, Amstelveen - Multilocular thymic cyst

Case 1 - Diagnosis:

Thymic hyperplasia with cyst(s)
T-98000, M-72000

Case 1 - References:

Thymic cyst: a fourth branchial cleft anomaly. Nayan S; MacLean J; Sommer D. *Laryngoscope* 2010; Jan;120(1): p100-2.
Thymic cyst in the neck. Berenos-Riley L; Manni JJ; Coronel C; De Wilde PC *Acta Otolaryngol* 2005; Jan;125(1): p108-12.
Multilocular thymic cyst associated with follicular hyperplasia: clinicopathologic study of 4 resected cases. Izumi H; Nobukawa B; Takahashi K; Kumasaka T; Miyamoto H; Yamazaki A; Sonobe S; Uekusa T; Suda K. *Hum Pathol* 2005; Jul;36(7): p841-4.
Multilocular thymic cyst associated with Sjogren's syndrome. Kondo K; Miyoshi T; Sakiyama S; Shimosato Y; Monden Y. *Ann Thorac Surg* 2001; Oct;72(4): p1367-9.
Carcinomas arising in multilocular thymic cysts of the neck: a clinicopathological study of three cases. *Histopathology* 2004; Jan;44(1): p64-8. Moran CA; Suster S; El-Naggar A; Luna MA.

Canoga Park - Adrenal cortical carcinoma
Carlsbad (Genoptix Medical Laboratory) - Adrenal cortical carcinoma
Glendale - Adrenal cortical carcinoma
Loma Linda (Loma Linda University) - Adrenal cortical carcinoma
Newport Beach (College Hospital) - Adrenal cortical adenoma
San Diego (Naval Medical Center) - Adrenal cortical carcinoma
Florida (Munroe Medical Center) - Adrenal cortical hyperplasia
Florida (Naples Pathology Associates) - Adrenal cortical carcinoma
Georgia, Atlanta - Adrenal cortical carcinoma
Illinois (Heartland Regional Medical Center) - Adrenal cortical carcinoma
Kansas (Coffeyville Regional Medical Center) - Adrenal cortical carcinoma
Kansas (Peterson Laboratory Services) - Adrenocortical carcinoma
Maryland (University of Maryland) - Adrenal cortical carcinoma
Massachusetts (BWH-Pathology) - Adrenocortical carcinoma
Michigan (Henry Ford Hospital) - Adrenal cortical carcinoma
New Mexico (University of New Mexico) - Adrenal cortical carcinoma
New York (SUNY Downstate Medical Center Residents) - Adrenocortical carcinoma
New York (SUNY Stony Brook University Hospital) - Adrenal cortical carcinoma
Ohio (University of Toledo College of Medicine Residents) - Adrenal cortical carcinoma, adrenal gland
Pennsylvania (Conemaugh Valley Memorial Hospital) - Adrenal cortical carcinoma
Pennsylvania (Drexel University College of Medicine) - Adrenal cortical carcinoma
Puerto Rico (University of Puerto Rico School of Medicine) - Adrenocortical carcinoma
Tennessee, Knoxville - Adrenocortical carcinoma
Texas, Crystal Beach - Adrenal cortical adenoma
Texas, Lubbock - Adrenal carcinoma
Wisconsin, Madison - Adrenal cortical carcinoma
Australia (Royal Prince Alfred Hospital) - Adrenal cortical carcinoma
Australia (St. Vincent's Hospital, Sydney) - Adrenal cortical carcinoma
Canada (Pasqua Hospital) - Adrenal cortical neoplasm
Canada (University of Sherbrooke) - Adrenal carcinoma
Ireland (University College Hospital, Galway) - Adrenocortical carcinoma
Japan (Asashi General Hospital) - Adrenal cortical carcinoma
Japan, Tokyo (Setagaya-Ku) - Adrenal cortical carcinoma
Japan (University of Yamanashi) - Cortical adenoma
Saudi Arabia (King Khalid University Hospital) - Adrenocortical carcinoma
Singapore (Freelance/ Locum Practice) - Cortical adenoma
Spain (Provisa Medical Center) - Adrenocortical carcinoma
The Netherlands , Amstelveen - Adrenal cortex hyperplasia

Case 2 - Diagnosis:

Adrenal cortical carcinoma, adrenal
 T-93000, M-83703

Case 2 - References:

Adrenal cortical neoplasms in the pediatric population: a clinicopathologic and immunophenotypic analysis of 83 patients. Wieneke JA; Thompson LD; Heffess CS. *Am J Surg Pathol* 2003; Jul;27(7): p867-81.
 Fine-needle aspiration of adrenal cortical carcinoma: cytologic spectrum and diagnostic challenges. Ren R; Guo M; Sneige N; Moran CA; Gong Y. *Am J Clin Pathol* 2006; Sep;126(3): p389-98.
 A twelve-year experience with adrenal cortical carcinoma in a single institution: long-term survival after surgical treatment and transcatheter arterial embolization. Soga H; Takenaka A; Ooba T; Nakano Y; Miyake H; Takeda M; Tanaka K; Hara I; Fujisawa M. *Urol Int* 2009;82(2): p222-6.
 Adrenal cortical carcinoma--review of current knowledge and treatment practices. Phan AT. *Hematol Oncol Clin North Am* 2007; Jun;21(3): p489-507; viii-ix.

Canoga Park - Hurthle cell adenoma
Carlsbad (Genoptix Medical Laboratory) - Papillary carcinoma, follicular variant
Glendale - Hurthle cell nodule
Loma Linda (Loma Linda University) - Hyperfunctional multi-nodular goiter
Newport Beach (College Hospital) - Thyroid hyperplasia, benign
San Diego (Naval Medical Center) - Thyroid tissue with radiation effect
Florida (Munroe Medical Center) - Hurthle cell lesion
Florida (Naples Pathology Associates) - Dyshormonogenetic goiter
Georgia, Atlanta - Follicular carcinoma with Hurthle cell change
Illinois (Heartland Regional Medical Center) - Follicular variant of papillary carcinoma
Kansas (Coffeyville Regional Medical Center) - Follicular adenoma
Kansas (Peterson Laboratory Services) - Hyperplastic thyroid with radioactive iodine induced change
Maryland (University of Maryland) - Toxic multinodular goiter with treatment effect
Massachusetts (BWH-Pathology) - Follicular carcinoma of thyroid gland
Michigan (Henry Ford Hospital) - Follicular adenoma, oncocytic variant
New Mexico (University of New Mexico) - Papillary thyroid carcinoma, follicular variant
New York (SUNY Downstate Medical Center Residents) - Follicular adenoma with Hurthle cell features, hyperfunctioning multinodular goiter
New York (SUNY Stony Brook University Hospital) - Follicular lesion with no evidence of carcinoma
Ohio (University of Toledo College of Medicine Residents) - Hurthle cell carcinoma, thyroid
Pennsylvania (Conemaugh Valley Memorial Hospital) - Hurthle cell carcinoma
Pennsylvania (Drexel University College of Medicine) - Hurthle cell adenoma
Puerto Rico (University of Puerto Rico School of Medicine) - Hurthle cell adenoma/signet ring cell follicular adenoma
Tennessee, Knoxville - Nodular goiter
Texas, Crystal Beach - Follicular hyperplasia (hyperthyroidism)
Texas, Lubbock - Hurthle cell adenoma
Wisconsin, Madison - Hyperplastic adenomatous nodules
Australia (Royal Prince Alfred Hospital) - Follicular adenoma
Australia (St. Vincent's Hospital, Sydney) - Hyperplasia consistent with Graves, with treatment effect
Canada (Pasqua Hospital) - Adenoma with treatment effect
Canada (University of Sherbrooke) - Goitre postratiment
Ireland (University College Hospital, Galway) - Hurthle cell change
Japan (Asashi General Hospital) - Graves's disease
Japan, Tokyo (Setagaya-Ku) - Follicular carcinoma
Japan (University of Yamanashi) - Toxic nodular goiter
Saudi Arabia (King Khalid University Hospital) - Treated Grave's disease/thyrotoxicosis
Singapore (Freelance/ Locum Practice) - Nodular goiter
Spain (Provisa Medical Center) - Nodular hyperplasia dyshormonogenetic goiter
The Netherlands, Amstelveen - Treated follicular adenoma

Case 3 - Diagnosis:

Partially treated Graves' disease with treatment effects (propylthiouracil), thyroid
T-96000, D-2193

Director's note: Further history was that this patient was diagnosed with Graves' disease and underwent a partial propylthiouracil treatment.. Case was presented at a CTTR seminar by Dr. LiVolsi (1984).

Case 3 - References:

Shifts in propylthiouracil and methimazole prescribing practices: antithyroid drug use in the United States from 1991 to 2008. Emiliano AB; Governale L; Parks M; Cooper DS. *J Clin Endocrinol Metab* 2010; May;95(5): p2227-33.

The effect of anti-thyroid drug treatment duration on thyroid gland microvessel density and intraoperative blood loss in patients with Graves' disease. Comment In: Ref Source: *Surgery*. 2008; Feb; 143(2):292-3/PMID:18242347. Erbil Y; Giris M; Salmaslioglu A; Ozluk Y; Barbaros U; Yanik BT; Kapran Y; Abbasoglu SD; Ozarmagan S. *Surgery* 2008; Feb;143(2): p216-25.

Propylthiouracil for hyperthyroidism. *Med Lett Drugs Ther* 2009; Jul 27;51(1317): p57.

Putting propylthiouracil in perspective. Cooper DS; Rivkees S. *A J Clin Endocrinol Metab* 2009; Jun;94(6): p1881-2.
Recovery from pancytopenia and liver dysfunction after administration of propylthiouracil for Graves' disease.
Kebapcilar L; Yesil S; Bayraktar F; Saklamaz A; Demir T; Gungor O; Alacacioglu I; Comlekci A. *N Z Med J* 2005; Aug 12;118(1220): pU1615.

Case No. 4, Accession No. 30657

April 2011

Canoga Park - Papillary carcinoma, thyroid
Carlsbad (Genoptix Medical Laboratory) - Papillary carcinoma, columnar variant
Glendale - Papillary carcinoma
Loma Linda (Loma Linda University) - Papillary thyroid carcinoma
Newport Beach (College Hospital) - Papillary thyroid carcinoma
San Diego (Naval Medical Center) - Papillary thyroid carcinoma
Florida (Munroe Medical Center) - Papillary carcinoma
Florida (Naples Pathology Associates) - Papillary thyroid carcinoma, tall cell variant
Georgia, Atlanta - Papillary thyroid carcinoma
Illinois (Heartland Regional Medical Center) - Papillary carcinoma, tall cell variant
Kansas (Coffeyville Regional Medical Center) - Papillary carcinoma, thyroid
Kansas (Peterson Laboratory Services) - Papillary carcinoma, tall cell
Maryland (University of Maryland) - Papillary thyroid carcinoma
Massachusetts (BWH-Pathology) - Tall cell variant of papillary carcinoma of thyroid gland
Michigan (Henry Ford Hospital) - Papillary thyroid cancer
New Mexico (University of New Mexico) - Papillary thyroid carcinoma, columnar variant
New York (SUNY Downstate Medical Center Residents) - Papillary carcinoma, tall cell variant
New York (SUNY Stony Brook University Hospital) - Papillary thyroid carcinoma, tall cell variant
Ohio (University of Toledo College of Medicine Residents) - Papillary thyroid carcinoma, thyroid
Pennsylvania (Conemaugh Valley Memorial Hospital) - Thyroid papillary carcinoma, columnar variant
Pennsylvania (Drexel University College of Medicine) - Papillary renal cell carcinoma, tall cell variant
Puerto Rico (University of Puerto Rico School of Medicine) - Papillary thyroid carcinoma
Tennessee, Knoxville - Papillary thyroid carcinoma, tall cell variant
Texas, Crystal Beach - Papillary carcinoma
Texas, Lubbock - Papillary carcinoma
Wisconsin, Madison - Papillary thyroid carcinoma
Australia (Royal Prince Alfred Hospital) - Papillary carcinoma of thyroid tall cell/columnar cell variant
Australia (St. Vincent's Hospital, Sydney) - Papillary carcinoma
Canada (Pasqua Hospital) - Papillary carcinoma columnar cell type
Canada (University of Sherbrooke) - Papillary carcinoma
Ireland (University College Hospital, Galway) - Papillary thyroid carcinoma
Japan (Asashi General Hospital) - Papillary carcinoma, tall cell variant
Japan, Tokyo (Setagaya-Ku) - Papillary carcinoma
Japan (University of Yamanashi) - Papillary carcinoma
Saudi Arabia (King Khalid University Hospital) - Papillary thyroid carcinoma
Singapore (Freelance/ Locum Practice) - Papillary thyroid carcinoma
Spain (Provisa Medical Center) - Tall cell variant of papillary carcinoma
The Netherlands , Amstelveen - Papillary carcinoma

Case 4 - Diagnosis:

Papillary carcinoma, tall cell variant, thyroid
T-96100, M-80503

Case 4 - References:

Columnar cell variant of papillary thyroid carcinoma. Report of a case with cytologic findings. Ylagan LR; Dehner LP; Huettner PC; Lu D. *Acta Cytol* 2004; Jan-Feb;48(1): p73-7.
Morphologic spectrum of papillary carcinoma of the thyroid: role of cytology in identifying the variants. Gupta S; Sodhani P; Jain S; Kumar N. *Acta Cytol* 2004; Nov-Dec;48(6): p795-800.

Papillary carcinoma of the thyroid and its variants: a cytohistological correlation. Nair M; Kapila K; Karak AK; Verma K. *Diagn Cytopathol* 2001; Mar;24(3): p167-73.

Papillary thyroid carcinoma and its variants in fine needle aspiration smears. A cytomorphologic study with special reference to tall cell variant. Das DK; Mallik MK; Sharma P, et al. *Acta Cytol* 2004; May-Jun;48(3): p325-36.

Case No. 5, Accession No. 30776

April 2011

Canoga Park - Merkel cell carcinoma

Carlsbad (Genoptix Medical Laboratory) - Merkel cell carcinoma

Glendale - Merkel cell carcinoma

Loma Linda (Loma Linda University) - Nevoid basal cell carcinoma syndrome

Newport Beach (College Hospital) - Merkel cell carcinoma of skin

San Diego (Naval Medical Center) - Merkel cell carcinoma

Florida (Munroe Medical Center) - Merkel cell carcinoma

Florida (Naples Pathology Associates) - Merkel cell carcinoma

Georgia, Atlanta - Merkel cell carcinoma

Illinois (Heartland Regional Medical Center) - Merkel cell carcinoma, rule out metastatic pulmonary small cell carcinoma

Kansas (Coffeyville Regional Medical Center) - Malignant spindle cell tumor, melanoma

Kansas (Peterson Laboratory Services) - High neuroendocrine carcinoma, Merkel cell

Maryland (University of Maryland) - Merkel cell carcinoma

Massachusetts (BWH-Pathology) - Merkel cell carcinoma

Michigan (Henry Ford Hospital) - Merkle cell carcinoma

New Mexico (University of New Mexico) - Merkel cell carcinoma

New York (SUNY Downstate Medical Center Residents) - Merkel cell carcinoma

New York (SUNY Stony Brook University Hospital) - Merkel cell carcinoma, possibly metastatic

Ohio (University of Toledo College of Medicine Residents) - Merkel cell carcinoma, scalp

Pennsylvania (Conemaugh Valley Memorial Hospital) - Merkel cell carcinoma

Pennsylvania (Drexel University College of Medicine) - Merkel cell carcinoma

Puerto Rico (University of Puerto Rico School of Medicine) - Merkel cell carcinoma

Tennessee, Knoxville - Merkel cell carcinoma

Texas, Crystal Beach - Carcinoma small cell (Merkel cell)

Texas, Lubbock - Merkel cell carcinoma

Wisconsin, Madison - Merkel cell carcinoma

Australia (Royal Prince Alfred Hospital) - Merkel cell carcinoma

Australia (St. Vincent's Hospital, Sydney) - Merkel cell carcinoma

Canada (Pasqua Hospital) - Merkel cell carcinoma vs. metastasis

Canada (University of Sherbrooke) - Merkel cell carcinoma

Ireland (University College Hospital, Galway) - Merkel cell carcinoma

Japan (Asahi General Hospital) - Merkel cell carcinoma

Japan, Tokyo (Setagaya-Ku) - Porocarcinoma

Japan (University of Yamanashi) - Merkel cell carcinoma

Saudi Arabia (King Khalid University Hospital) - Merkel's cell carcinoma

Singapore (Freelance/ Locum Practice) - Merkel cell carcinoma

Spain (Provisa Medical Center) - Merkel cell carcinoma

The Netherlands , Amstelveen - Merkel cell carcinoma

Case 5 - Diagnosis:

Merkel cell carcinoma, scalp

T-Y0160, E-8814

Case 5 - References:

Complete remission of Merkel cell carcinoma of the scalp with local and regional metastases after topical treatment with dinitrochlorbenzol. Herrmann G; Groth W; Krieg T; Mauch C. *J Am Acad Dermatol* 2004; Jun;50(6): p965-9.

Intracranial spread of Merkel cell carcinoma through intact skull. Barkdull GC; Healy JF; Weisman RA. *Ann Otol Rhinol Laryngol* 2004; Sep;113(9): p683-7.

Fine-needle aspiration diagnosis of unusual cutaneous neoplasms of the scalp in HIV-infected patients: a report of two cases and review of the literature. Solomon RK; Lundeen SJ; Hamlar DD; Pambuccian SE. *Diagn Cytopathol* 2001; Mar;24(3): p186-92.

Fine-needle aspiration cytology of Merkel cell carcinoma. Dey P; Jogai S; Amir T; Temim L. *Diagn Cytopathol* 2004; Nov;31(5): p364-5.

KIT receptor (CD117) expression in Merkel cell carcinoma. Strong S; Shalders K; Carr R; Snead DR. *Br J Dermatol* 2004; Feb;150(2): p384-5.

Case No. 6, Accession No. 31098

April 2011

Canoga Park - Malignant phyllodes tumor
Carlsbad (Genoptix Medical Laboratory) - Phyllodes tumor, benign
Glendale - High grade phyllodes tumor
Loma Linda (Loma Linda University) - Cystosarcoma phyllodes, breast
Newport Beach (College Hospital) - Fibroadenoma of breast
San Diego (Naval Medical Center) - Malignant phyllodes tumor
Florida (Munroe Medical Center) - Phyllodes tumor
Florida (Naples Pathology Associates) - Phyllodes tumor
Georgia, Atlanta - Phyllodes tumor, high grade
Illinois (Heartland Regional Medical Center) - Phyllodes tumor of intermediate grade
Kansas (Coffeyville Regional Medical Center) - Cystosarcoma phyllodes
Kansas (Peterson Laboratory Services) - Phyllodes tumor, borderline
Maryland (University of Maryland) - Phyllodes tumor, high grade
Massachusetts (BWH-Pathology) - Phyllodes tumor, high grade
Michigan (Henry Ford Hospital) - Phyllodes tumor, benign
New Mexico (University of New Mexico) - Malignant phyllodes tumor
New York (SUNY Downstate Medical Center Residents) - Phyllodes tumor, malignant
New York (SUNY Stony Brook University Hospital) - Malignant phyllodes tumor
Ohio (University of Toledo College of Medicine Residents) - Phyllodes tumor, borderline
Pennsylvania (Conemaugh Valley Memorial Hospital) - High grade phyllodes tumor
Pennsylvania (Drexel University College of Medicine) - Malignant phyllodes tumor
Puerto Rico (University of Puerto Rico School of Medicine) - Phyllodes tumor, malignant
Tennessee, Knoxville - Malignant phyllodes tumor
Texas, Crystal Beach - Cystosarcoma phyllodes
Texas, Lubbock - Malignant phyllodes tumor
Wisconsin, Madison - Phyllodes tumor
Australia (Royal Prince Alfred Hospital) - Malignant phyllodes
Australia (St. Vincent's Hospital, Sydney) - Intermediate grade phyllodes tumor
Canada (Pasqua Hospital) - Phyllodes tumor
Canada (University of Sherbrooke) - Malignant phyllodes tumor
Ireland (University College Hospital, Galway) - Malignant phyllodes
Japan (Asahi General Hospital) - Phyllodes tumor
Japan, Tokyo (Setagaya-Ku) - Phyllodes tumor
Japan (University of Yamanashi) - Phyllodes tumor, borderline
Saudi Arabia (King Khalid University Hospital) - Phyllodes tumor, malignant
Singapore (Freelance/ Locum Practice) - Phyllodes tumor
Spain (Provisa Medical Center) - Phyllodes tumor
The Netherlands , Amstelveen - Phyllodes tumor

Case 6 - Diagnosis:

Phyllodes tumor, breast
 T-04000, M-90213

Case 6 - References:

Can Phyllodes tumours of the breast be distinguished from fibroadenomas using fine needle aspiration cytology? Scolyer RA; McKenzie PR; Achmed D; Lee CS. *Pathology* 2001; Nov;33(4): p437-43.

Phyllodes tumors of the breast: the role of pathologic parameters. Tan PH; Jayabaskar T; Chuah KL, et al. *Am J Clin Pathol* 2005; Apr;123(4): p529-40.

Histological features useful in the distinction of phyllodes tumour and fibroadenoma on needle core biopsy of the breast. Lee AH; Hodi Z; Ellis IO; Elston CW. *Histopathology* 2007; Sep;51(3): p336-44.

Malignant phyllodes tumor composed almost exclusively of a fibrosarcomatous component: a case report and review of malignant phyllodes tumors with metastases. Suzuki-Uematsu S; Shiraishi K; Ito T, et al. *Breast Cancer* 2010; Jul;17(3): p218-24.

Case report of a 30.8 pound cystosarcoma phyllodes of breast. Hiers C; Cook J; Sales E. J. *Ark Med Soc* 2009; Dec;106(7): p134-6.

Case No. 7, Accession No. 30688

April 2011

Canoga Park - Myxolipoma
Carlsbad (Genoptix Medical Laboratory) - Elastofibroma
Loma Linda (Loma Linda University) - Myxoma fibromyxoma, back
Newport Beach (College Hospital) - Low grade liposarcoma of back
San Diego (Naval Medical Center) - Spindle cell/pleomorphic lipoma
Florida (Munroe Medical Center) - Myxoma
Florida (Naples Pathology Associates) - Myxoid lipoma
Georgia, Atlanta - Spindle cell lipoma with myxoid change
Illinois (Heartland Regional Medical Center) - Spindle cell lipoma with myxoid change
Kansas (Coffeyville Regional Medical Center) - Fibromyxoma
Kansas (Peterson Laboratory Services) - Myxoid lipoma
Maryland (University of Maryland) - Myxoma
Massachusetts (BWH-Pathology) - Spindle cell lipoma
Michigan (Henry Ford Hospital) - Elastofibroma
New Mexico (University of New Mexico) - Spindle cell lipoma
New York (SUNY Downstate Medical Center Residents) - Elastofibroma
New York (SUNY Stony Brook University Hospital) - Myxoid spindle cell lipoma
Ohio (University of Toledo College of Medicine Residents) - Elastofibroma, back
Pennsylvania (Conemaugh Valley Memorial Hospital) - Spindle cell lipoma
Pennsylvania (Drexel University College of Medicine) - Elastofibroma
Puerto Rico (University of Puerto Rico School of Medicine) - Spindle cell lipoma
Tennessee, Knoxville - Spindle cell lipoma
Texas, Crystal Beach - Myxoma
Texas, Lubbock - Elastofibroma
Wisconsin, Madison - Myxoid spindle cell lipoma
Australia (Royal Prince Alfred Hospital) - Spindle cell lipoma
Australia (St. Vincent's Hospital, Sydney) - Spindle cell lipoma
Canada (Pasqua Hospital) - Spindle cell lipoma
Canada (University of Sherbrooke) - Spindle cell lipoma, myxoid type
Ireland (University College Hospital, Galway) - Spindle cell lipoma
Japan (Asahi General Hospital) - Myxolipoma
Japan, Tokyo (Setagaya-Ku) - Spindle cell lipoma
Japan (University of Yamanashi) - Lipoma, degenerated
Saudi Arabia (King Khalid University Hospital) - Spindle cell lipoma
Singapore (Freelance/ Locum Practice) - Spindle cell lipoma
Spain (Provisa Medical Center) - Aggressive angiomyxoma
The Netherlands , Amstelveen - Spindle cell lipoma + myxoid change

Case 7 - Diagnosis:

Myxoid spindle cell lipoma, back
T-Y1100, M-88570

Case 7 - References:

Diagnostically challenging spindle cell lipomas: a report of 34 "low-fat" and "fat-free" variants. Billings SD; Folpe AL. *Am J Dermatopathol* 2007; Oct;29(5): p437-42.

Cellular angiofibroma: another mesenchymal tumour with 13q14 involvement, suggesting a link with spindle cell lipoma and (extra)-mammary myofibroblastoma. Maggiani F; Debiec-Rychter M; Vanbockrijck M; Sciot R. *Histopathology* 2007; Sep;51(3): p410-2.

Synchronous ordinary lipoma and spindle-cell lipoma diagnosed by fine needle aspiration. Siddiqui MA; Su L; Michael CW; Pu R T. *Diagn Cytopathol* 2006; Jun;34(6): p455-6.

Spindle cell lipoma: an uncommon tumour with distinctive morphology. Pathan SK; Kapila K; Al-Ayadhy B; Abdeen S. *Cytopathology* 2007; Apr;18(2): p123-5.

Fine needle aspiration of pleomorphic lipoma of the neck: report of two cases. Chen X; Yu K; Tong GX; Hood M; Storper I; Hamele-Bena D. *Diagn Cytopathol* 2010; Mar;38(3): p184-7.

Case No. 8, Accession No. 12436

April 2011

Canoga Park - Seminoma
Carlsbad (Genoptix Medical Laboratory) - Seminoma
Loma Linda (Loma Linda University) - Seminoma, spermatocytic type
Newport Beach (College Hospital) - Seminoma of testicle
San Diego (Naval Medical Center) - Mixed germ cell tumor, seminoma and embryonal carcinoma
Florida (Munroe Medical Center) - Mixed germ cell tumor
Florida (Naples Pathology Associates) - Mixed germ cell tumor (seminoma and embryonal carcinoma)
Georgia, Atlanta - Mixed germ cell tumor with seminoma and embryonal carcinoma
Illinois (Heartland Regional Medical Center) - Seminoma and embryonal carcinoma
Kansas (Coffeyville Regional Medical Center) - Embryonal carcinoma
Kansas (Peterson Laboratory Services) - Mixed germ cell tumor, seminoma and embryonal
Maryland (University of Maryland) - Mixed germ cell tumor
Massachusetts (BWH-Pathology) - Mixed germ cell tumor (seminoma and embryonal carcinoma)
Michigan (Henry Ford Hospital) - Mixed germ cell tumor
New Mexico (University of New Mexico) - Yolk sac and seminoma mixed germ cell tumor
New York (SUNY Downstate Medical Center Residents) - Mixed germ cell tumor, seminoma, yolk sac and embryonal
New York (SUNY Stony Brook University Hospital) - Mixed germ cell tumor with components of seminoma and embryonal carcinoma
Ohio (University of Toledo College of Medicine Residents) - Mixed germ cell tumor with seminoma and embryonal carcinoma component, testis
Pennsylvania (Conemaugh Valley Memorial Hospital) - Mixed germ cell tumor (seminoma and YST)
Pennsylvania (Drexel University College of Medicine) - Mixed germ cell tumor, seminoma and embryonal carcinoma
Puerto Rico (University of Puerto Rico School of Medicine) - Mixed germ cell tumor (seminoma + embryonal carcinoma)
Tennessee, Knoxville - Malignant mixed germ cell tumor (embryonal carcinoma and seminoma)
Texas, Crystal Beach - Spermatocytic seminoma
Texas, Lubbock - Seminoma
Wisconsin, Madison - Malignant mixed germ cell tumor (embryonal carcinoma + seminoma)
Australia (Royal Prince Alfred Hospital) - Mixed germ cell tumor
Australia (St. Vincent's Hospital, Sydney) - Mixed germ cell tumor, classic seminoma and embryonal carcinoma
Canada (Pasqua Hospital) - Seminoma with embryonal carcinoma
Canada (University of Sherbrooke) - Mixed germ cell tumor
Ireland (University College Hospital, Galway) - Mixed germ cell tumor (seminoma and embryonal carcinoma)
Japan (Asahi General Hospital) - Mixed germ cell tumor, seminoma and embryonal carcinoma
Japan, Tokyo (Setagaya-Ku) - Seminoma
Japan (University of Yamanashi) - Embryonal carcinoma
Saudi Arabia (King Khalid University Hospital) - Malignant mixed germ cell tumor

Singapore (Freelance/ Locum Practice) - Mixed germ cell tumor (seminoma and embryonal carcinoma)
Spain (Provisa Medical Center) - Seminoma with yolk sac elements
The Netherlands , Amstelveen - Seminoma

Case 8 - Diagnosis:

Mixed malignant germ cell tumor, predominantly seminoma and embryonal carcinoma, testis
T-78000, M-86310

Case 8 - References:

Association of intratubular seminoma and intratubular embryonal carcinoma with invasive testicular germ cell tumors.
Lau SK; Weiss LM; Chu PG. *Am J Surg Pathol* 2007; Jul;31(7): p1045-9.
An overview of testicular germ cell tumors. Bahrami A; Ro JY; Ayala AG. *Arch Pathol Lab Med* 2007; Aug;131(8): p1267-80.
Recent advances in the pathology and classification of gonadal neoplasms composed of germ cells and sex cord derivatives. Talerman A; Roth LM.. *Int J Gynecol Pathol* 2007; Jul;26(3): p313-21.
Rete testis invasion by malignant germ cell tumor and/or intratubular germ cell neoplasia: what is the significance of this finding? Vogt AP; Chen Z; Osunkoya AO. *Hum Pathol* 2010; Sep;41(9): p1339-44.

Case No. 9, Accession No. 22067

April 2011

Canoga Park - Metastatic melanoma
Carlsbad (Genoptix Medical Laboratory) - Melanoma
Loma Linda (Loma Linda University) - Amelanotic melanoma
Newport Beach (College Hospital) - Malignant melanoma
San Diego (Naval Medical Center) - Melanoma
Florida (Munroe Medical Center) - Metastatic melanoma
Florida (Naples Pathology Associates) - Metastatic malignant melanoma
Georgia, Atlanta - Metastatic melanoma
Illinois (Heartland Regional Medical Center) - Metastatic melanoma
Kansas (Coffeyville Regional Medical Center) - Metastatic melanoma
Kansas (Peterson Laboratory Services) - Metastatic melanoma
Maryland (University of Maryland) - Clear cell sarcoma vs. melanoma
Massachusetts (BWH-Pathology) - Metastatic melanoma
Michigan (Henry Ford Hospital) - Metastatic melanoma
New Mexico (University of New Mexico) - Metastatic melanoma
New York (SUNY Downstate Medical Center Residents) - Malignant melanoma
New York (SUNY Stony Brook University Hospital) - Metastatic melanoma
Ohio (University of Toledo College of Medicine Residents) - Metastatic melanoma, axilla
Pennsylvania (Conemaugh Valley Memorial Hospital) - Malignant melanoma, spindle cell type
Pennsylvania (Drexel University College of Medicine) - Apocrine hidradenoma
Puerto Rico (University of Puerto Rico School of Medicine) - Malignant melanoma/Kaposi sarcoma
Tennessee, Knoxville - Metastatic melanoma
Texas, Crystal Beach - Malignancy consistent with melanoma amelanotic metastatic
Texas, Lubbock - Metastatic melanoma
Wisconsin, Madison - Malignant melanoma
Australia (Royal Prince Alfred Hospital) - Melanoma, poorly differentiated carcinoma
Australia (St. Vincent's Hospital, Sydney) - Metastatic melanoma
Canada (Pasqua Hospital) - Melanoma
Canada (University of Sherbrooke) - Malignant melanoma
Ireland (University College Hospital, Galway) - Metastatic melanoma
Japan (Asahi General Hospital) - Malignant melanoma
Japan, Tokyo (Setagaya-Ku) - Porocarcinoma
Japan (University of Yamanashi) - Malignant melanoma
Saudi Arabia (King Khalid University Hospital) - Malignant melanoma
Singapore (Freelance/ Locum Practice) - Metastatic melanoma

Spain (Provisa Medical Center) - Metastatic melanoma
The Netherlands , Amstelveen - Merkel cell carcinoma

Case 9 - Diagnosis:

Metastatic melanoma, axillary lymph nodes
T-04000, M-87203

Case 9 - References:

Size of sentinel node metastases predicts other nodal disease and survival in malignant melanoma. Pearlman NW; McCarter MD, et al. *Am J Surg* 2006; Dec;192(6): p878-81.
Sentinel lymph node excision and PET-CT in the initial stage of malignant melanoma: a retrospective analysis of 61 patients with malignant melanoma in American Joint Committee on Cancer stages I and II. Klode J; Dissemmond J; Grabbe S; Hillen U; Poeppel T; Boeing C. *Dermatol Surg* 2010; Apr;36(4): p439-45.
The role of lymphatic mapping and sentinel lymph node biopsy in the staging and treatment of melanoma. Stadelmann WK. *Clin Plast Surg* 2010; Jan;37(1): p79-99.
Expression of c-kit (CD117) in Spitz nevus and malignant melanoma. Isabel Zhu Y; Fitzpatrick JE. *J Cutan Pathol* 2006; Jan;33(1): p33-7.
WT1 as a complementary marker of malignant melanoma: an immunohistochemical study of whole sections. Wilsher M; Cheerala B. *Histopathology* 2007; Nov;51(5): p605-10.
Cutaneous metastases of malignant melanoma: a clinicopathologic study of 192 cases with emphasis on the morphologic spectrum. Plaza JA; Torres-Cabala C; Evans H; Diwan HA; Suster S; Prieto VG. *Am J Dermatopathol* 2010; Apr;32(2): p129-36.

Case No. 10, Accession No. 31245

April 2011

Canoga Park - Renal cell carcinoma, clear cell type
Carlsbad (Genoptix Medical Laboratory) - Clear cell renal cell carcinoma, nuclear grade 2
Loma Linda (Loma Linda University) - Renal cell carcinoma, hypernephroid type
Newport Beach (College Hospital) - Renal cell carcinoma
San Diego (Naval Medical Center) - Renal clear cell carcinoma
Florida (Munroe Medical Center) - Renal cell carcinoma, clear cell type
Florida (Naples Pathology Associates) - Renal cell carcinoma, clear cell type
Georgia, Atlanta - Clear cell (conventional) renal cell carcinoma
Illinois (Heartland Regional Medical Center) - Renal cell carcinoma, clear cell type
Kansas (Coffeyville Regional Medical Center) - Renal cell carcinoma
Kansas (Peterson Laboratory Services) - Renal cell carcinoma, clear cell type, grade 2/4
Maryland (University of Maryland) - Renal cell carcinoma, clear cell type
Massachusetts (BWH-Pathology) - Renal cell carcinoma, clear cell carcinoma
Michigan (Henry Ford Hospital) - Clear cell renal cell carcinoma
New Mexico (University of New Mexico) - Conventional clear cell carcinoma
New York (SUNY Downstate Medical Center Residents) - Clear cell renal cell carcinoma
New York (SUNY Stony Brook University Hospital) - Clear cell renal cell carcinoma
Ohio (University of Toledo College of Medicine Residents) - Renal cell carcinoma, clear cell type, kidney
Pennsylvania (Conemaugh Valley Memorial Hospital) - Renal cell carcinoma, clear cell
Pennsylvania (Drexel University College of Medicine) - Renal cell carcinoma, clear cell type
Puerto Rico (University of Puerto Rico School of Medicine) - Clear cell renal cell carcinoma
Tennessee, Knoxville - Clear cell renal cell carcinoma
Texas, Crystal Beach - Clear cell carcinoma
Texas, Lubbock - Renal cell carcinoma, clear cell type
Wisconsin, Madison - Renal cell carcinoma, clear cell type
Australia (Royal Prince Alfred Hospital) - Clear cell renal cell carcinoma
Australia (St. Vincent's Hospital, Sydney) - Clear cell renal cell carcinoma
Canada (Pasqua Hospital) - Renal cell carcinoma, clear cell type
Canada (University of Sherbrooke) - Clear cell carcinoma

Ireland (University College Hospital, Galway) - Clear cell carcinoma
Japan (Asashi General Hospital) - Clear cell renal cell carcinoma
Japan, Tokyo (Setagaya-Ku) - Clear cell carcinoma
Japan (University of Yamanashi) - Clear cell renal cell carcinoma
Saudi Arabia (King Khalid University Hospital) - Conventional clear cell carcinoma
Singapore (Freelance/ Locum Practice) - Renal cell carcinoma, conventional/clear cell type
Spain (Provisa Medical Center) - Renal cell carcinoma, clear cell type
The Netherlands , Amstelveen - Clear cell renal cell carcinoma

Case 10 - Diagnosis:

Renal cell carcinoma, clear cell type, kidney
T-71000, M-83212

Case 10 - References:

The utility of PAX-2 in distinguishing metastatic clear cell renal cell carcinoma from its morphologic mimics: an immunohistochemical study with comparison to renal cell carcinoma marker. Gokden N; Gokden M; Phan DC; McKenney JK. *Am J Surg Pathol* 2008; Oct;32(10): p1462-7.
Renal cell carcinoma with extensive clear cell change sharing characteristics of mucinous tubular and spindle cell carcinoma and papillary renal cell carcinoma. Kuroda N; Tamura M; Hes O; Michal M; Kawada C; Shuin T; Lee GH. *Pathol Int* 2009; Sep;59(9): p687-8.
Loss of chromosome 9p is an independent prognostic factor in patients with clear cell renal cell carcinoma. Brunelli M; Eccher A; Gobbo S, et al. *Mod Pathol* 2008; Jan;21(1): p1-6.
Xp11.2 translocation renal cell carcinoma with very aggressive course in five adults. Meyer PN; Clark JI; Flanigan RC; Picken MM. *Am J Clin Pathol* 2007; Jul;128(1): p70-9.
Renal cell carcinoma in children and young adults: analysis of clinicopathological, immunohistochemical and molecular characteristics with an emphasis on the spectrum of Xp11.2 translocation-associated and unusual clear cell subtypes. Wu A; Kunju LP; Cheng L; Shah RB. *Histopathology* 2008; Nov;53(5): p533-44.
Differential diagnosis of renal tumours with clear cell histology. Reuter VE; Tickoo SK. *Pathology* 2010; Jun;42(4): p374-83.