



CALIFORNIA
TUMOR TISSUE REGISTRY

ENDOCRINE PATHOLOGY

Minutes – Subscription A

March 2010



SUGGESTED READING (General Topics from Recent Literature):

- Multiple endocrine neoplasia syndromes. Callender GG; Rich TA. *Surg Clin North Am* 2008 Aug;88(4): p863-95, viii
- Plasma triglycerides, an independent predictor of cardiovascular disease in men: a prospective study based on a population with prevalent metabolic syndrome. Onat A; Sari I; Yazici M, et al. *Int J Cardiol* 2006 Mar 22;108(1): p89-95
- The age related decrease in testosterone is significantly exacerbated in obese men with the metabolic syndrome. What are the implications for the relatively high incidence of erectile dysfunction observed in these men? Kaplan SA; Meehan AG; Shah A. *J Urol* 2006 Oct;176(4 Pt 1): p1524-7; discussion 1527-8
- Autonomic nervous system changes in men with chronic pelvic pain syndrome. Yilmaz U; Liu YW, et al. *J Urol* 2007 Jun;177(6): p2170-4; discussion 2174
- The metabolic syndrome is a stronger risk factor for early carotid atherosclerosis in women than in men. Iglseider B; Cip P, et al. *Stroke* 2005 Jun;36(6): p1212-7
- Fat embolism syndrome. Stein PD; Yaekoub AY, et al. *Am J Med Sci* 2008 Dec;336(6): p472-7
- Trends in HIV/AIDS diagnoses among men who have sex with men--33 states, 2001-2006. *MMWR Morb Mortal Wkly Rep* 2008 Jun 27;57(25): p681-6

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FILE DIAGNOSES

CTTR Subscription A

March 2010

Case 1:

Spindle cell adenoma, thyroid
T-96000, M-83330

Case 2:

Anaplastic carcinoma, thyroid
T-96000, M-80103

Case 3:

Hurthle cell carcinoma, thyroid
T-96000, M-82903

Case 4:

Follicular variant of papillary carcinoma, thyroid
T-96000, M-80503

Case 5:

Papillary carcinoma (nos), thyroid
T-96000, M-80503

Case 6:

Pancreatic endocrine neoplasm
T-59000, M-80001

Case 7:

Pheochromocytoma, adrenal
T-93000, M-87000

Case 8:

Adrenal cortical adenoma
T-93000, M-83700

Case 9:

Adrenal cortical adenoma with paradoxical hyperplasia
T-93000, M-83700

Case 10:

Adrenal cortical carcinoma
T-93000, M-83703

Alameda (Alameda County Medical Center) - Follicular adenoma
Fontana (Kaiser Permanente Hospital) - Papillary carcinoma
Glendale - Medullary carcinoma
Hayward (St. Rose Hospital) - Medullary carcinoma
Long Beach (Long Beach Veterans Medical Center) - Follicular variant of papillary carcinoma
Orange (Orange County Pathology Medical Group) - Papillary carcinoma, follicular variant
Oxnard (St. John's Regional Medical Center) - Hurthle cell adenoma
San Diego (Naval Medical Center) - Papillary thyroid carcinoma
Santa Barbara - Follicular adenoma
Woodland Hills - Follicular adenoma vs. dyshormonogenetic goiter
Florida (Naples Pathology Associates) - Medullary thyroid carcinoma
Florida (Tallahassee Pathology Associates) - Medullary carcinoma
Georgia, Atlanta - Follicular adenoma
Illinois, Burr Ridge - Medullary thyroid carcinoma
Illinois, Chicago - Medullary carcinoma (2)
Illinois (Heartland Regional Medical Center) - Encapsulated follicular neoplasm of uncertain malignant potential
Illinois, Oak Brook - Hyalinizing trabecular adenoma
Illinois (St. Mary's Hospital) - Medullary thyroid carcinoma
Maryland (University of Maryland Medical Center) - Papillary carcinoma, follicular variant
Minnesota (Fairview Ridges Hospital) - Encapsulated follicular variant of papillary carcinoma of the thyroid with spindle cell metaplasia
Missouri (University of Missouri-Kansas City) - Medullary carcinoma of thyroid
Nebraska (Creighton University Medical Center) - Follicular thyroid adenoma, suspicious for minimally invasive carcinoma
New York (Albany Medical Center) - Hyalinized trabecular adenoma
New York (Erie County Medical Center) - Follicular carcinoma of thyroid minimally invasive
New York (Long Island Jewish Medical Center) - Differential medullary carcinoma, hyalinizing trabecular adenoma
New York (St. Lukes Roosevelt Hospital) - Hyalinizing trabecular neoplasm tumor (3)
New York (SUNY Downstate Medical Center) - Hyalinized trabecular adenoma/medullary carcinoma
New York (SUNY Stony Brook) - Medullary thyroid carcinoma
Ohio, Union Town - Medullary thyroid carcinoma
Ohio (University of Toledo Medical Center) - Medullary thyroid carcinoma
Pennsylvania (Conemaugh Memorial Hospital) - Follicular neoplasm favor adenoma
Pennsylvania (Lehigh Valley Hospital) - Papillary carcinoma, follicular variant
Pennsylvania (Magee Women's Hospital) - Medullary carcinoma
Pennsylvania (York Hospital) - Papillary thyroid carcinoma, follicular variant with focal spindling
Puerto Rico (University of Puerto Rico) - Papillary thyroid carcinoma/rule out hyalinizing trabecular tumor
Texas (Carl Darnall Army Medical Center) - Medullary thyroid carcinoma
Texas, Crystal Beach - Follicular adenoma in multinodular goiter
Texas, Lubbock - Follicular adenoma
Texas (Scott & White Hospital) - Follicular adenoma
Texas (UTHSC San Antonio Residents) - Medullary carcinoma
Washington (University of Washington) - Follicular adenoma (mixed macro and micro follicular)
Washington (Seattle VA) - Thyroid adenoma
West Virginia (Greenbrier Valley Medical Center) - Follicular adenocarcinoma
Australia (St. Vincents Study Group) - Favor medullary thyroid carcinoma
Australia (Sullivan Nicolaides Pathology) - Follicular adenoma, thyroid
Canada (Pasqua Hospital) - Follicular adenoma
Canada (University of Sherbrooke) - Follicular adenoma
Ireland (Kerry General Hospital) - Poorly differentiated follicular carcinoma
Japan (Asahi General Hospital) - Hyalinizing trabecular tumor
Japan (Shizuoka Tokushu-kai Hospital) - Medullary carcinoma
Japan (University of Yamanashi) - Papillary carcinoma, follicular variant
Netherlands, Amstelveen - Hyalinizing trabecular tumor
Singapore (Freelance/Locum Practice) - Nodular goiter

United Kingdom (John Radcliffe Hospital) - Follicular adenoma

Case 1 - Diagnosis:

Spindle cell adenoma, thyroid
T-96000, M-83330

Consultation: Dr. Lester Thompson (June, 2010 CTTR speaker), “Spindle cell adenoma, thyroid”

Case 1 - References:

Unusual spindle cell tumor of thyroid (SETTLE). Haberal AN; Aydin H, et al. *Thyroid* 2008 Jan;18(1): p85-7

Primary spindle cell lesions of the thyroid gland; an overview. Papi G; Corrado S; Li Volsi VA. *Am J Clin Pathol* 2006 Jun;125 Suppl:S95-123

Spindle cell metaplasia arising in thyroid adenoma: characterization of its pathology and differential diagnosis. Shikama Y; Mizukami H, et al. *J Endocrinol Invest* 2006 Feb;29(2): p168-71

Spindle epithelial tumor with thymus-like differentiation: a morphologic, immunohistochemical, and molecular genetic study of 11 cases. Folpe AL; Lloyd RV; Bacchi CE; Rosai J. *Am J Surg Pathol* 2009 Aug;33(8): p1179-86

Case No. 2, Accession No. 31286

March 2010

Alameda (Alameda County Medical Center) - Undifferentiated (anaplastic) carcinoma

Fontana (Kaiser Permanente Hospital) - Anaplastic carcinoma

Glendale - Malignant solitary fibrous tumor

Hayward (St. Rose Hospital) - Anaplastic carcinoma

Long Beach (Long Beach Veterans Medical Center) - Anaplastic carcinoma

Orange (Orange County Pathology Medical Group) - Carcinoma, medullary vs. anaplastic

Oxnard (St. John's Regional Medical Center) - Anaplastic carcinoma

San Diego (Naval Medical Center) - Anaplastic carcinoma

Santa Barbara - Anaplastic carcinoma

Woodland Hills - Anaplastic carcinoma

Florida (Naples Pathology Associates) - Anaplastic thyroid carcinoma

Florida (Tallahassee Pathology Associates) - Anaplastic carcinoma

Georgia, Atlanta - Anaplastic carcinoma

Illinois, Burr Ridge - Anaplastic thyroid carcinoma

Illinois, Chicago - Undifferentiated carcinoma (2)

Illinois (Heartland Regional Medical Center) - Undifferentiated (anaplastic) carcinoma

Illinois, Oak Brook - Anaplastic carcinoma

Illinois (St. Mary's Hospital) - Undifferentiated carcinoma

Maryland (University of Maryland Medical Center) - Anaplastic thyroid carcinoma

Minnesota (Fairview Ridges Hospital) - Anaplastic carcinoma

Missouri (University of Missouri-Kansas City) - Anaplastic carcinoma of thyroid

Nebraska (Creighton University Medical Center) - Anaplastic carcinoma

New York (Albany Medical Center) - Anaplastic carcinoma

New York (Erie County Medical Center) - Undifferentiated carcinoma (anaplastic carcinoma)

New York (Long Island Jewish Medical Center) - Anaplastic carcinoma

New York (St. Lukes Roosevelt Hospital) - Anaplastic thyroid carcinoma (3)

New York (SUNY Downstate Medical Center) - Anaplastic carcinoma of thyroid

New York (SUNY Stony Brook) - Anaplastic thyroid carcinoma

Ohio, Union Town - Anaplastic thyroid carcinoma

Ohio (University of Toledo Medical Center) - Anaplastic thyroid carcinoma

Pennsylvania (Conemaugh Memorial Hospital) - Anaplastic carcinoma of thyroid

Pennsylvania (Lehigh Valley Hospital) - Anaplastic carcinoma

Pennsylvania (Magee Women's Hospital) - Anaplastic carcinoma

Pennsylvania (York Hospital) - Anaplastic carcinoma

Puerto Rico (University of Puerto Rico) - Undifferentiated (anaplastic) carcinoma

Texas (Carl Darnall Army Medical Center) - Anaplastic thyroid carcinoma (paucicellular variant)
Texas, Crystal Beach - Medullary carcinoma
Texas, Lubbock - Anaplastic carcinoma
Texas (Scott & White Hospital) - Anaplastic carcinoma
Texas (UTHSC San Antonio Residents) - Anaplastic carcinoma
Washington (University of Washington) - Anaplastic carcinoma
Washington (Seattle VA) - Thyroid carcinoma, poorly differentiated with aggressive behavior
West Virginia (Greenbrier Valley Medical Center) - Undifferentiated carcinoma
Australia (St. Vincents Study Group) - Anaplastic carcinoma of thyroid
Australia (Sullivan Nicolaides Pathology) - Anaplastic carcinoma, thyroid
Canada (Pasqua Hospital) - Anaplastic carcinoma
Canada (University of Sherbrooke) - Anaplastic carcinoma
Ireland (Kerry General Hospital) - Anaplastic carcinoma
Japan (Asahi General Hospital) - Undifferentiated carcinoma
Japan (Shizuoka Tokushu-kai Hospital) - Medullary carcinoma
Japan (University of Yamanashi) - Undifferentiated carcinoma
Netherlands, Amstelveen - Anaplastic carcinoma
Singapore (Freelance/Locum Practice) - Poorly differentiated (anaplastic) carcinoma
United Kingdom (John Radcliffe Hospital) - Anaplastic carcinoma

Case 2 - Diagnosis:

Anaplastic carcinoma, thyroid
 T-96000, M-80103

Case 2 - References:

Coexistent anaplastic and differentiated thyroid carcinoma: an immunohistochemical study. Aratake Y; Nomura H, et al. *Am J Clin Pathol* 2006 Mar;125(3): p399-406
 Metastatic anaplastic carcinoma of the thyroid mimicking squamous cell carcinoma: report of a case of a challenging cytologic diagnosis. Oktay MH; Smolkin MB, et al. *Acta Cytol* 2006 Mar-Apr;50(2): p201-4
 Anaplastic carcinoma of the thyroid arising more often from follicular carcinoma than papillary carcinoma. Wang HM; Huang YW, et al. *Ann Surg Oncol* 2007 Oct;14(10): p3011-8
 Histologic variants of papillary and follicular carcinomas associated with anaplastic spindle and giant cell carcinomas of the thyroid: an analysis of rhabdoid and thyroglobulin inclusions. Albores-Saavedra J; Hernandez M, et al. *Am J Surg Pathol* 2007 May;31(5): p729-36
 Anaplastic thyroid carcinoma implantation after fine needle aspiration cytology. Abelardo E; Jaramillo M, et al. *J Laryngol Otol* 2007 Mar;121(3): p268-70

Case No. 3, Accession No. 30912

March 2010

Alameda (Alameda County Medical Center) - Hurthle cell adenoma
Fontana (Kaiser Permanente Hospital) - Medullary carcinoma
Glendale - Follicular carcinoma
Hayward (St. Rose Hospital) - Oncocytoma
Long Beach (Long Beach Veterans Medical Center) - Hurthle cell carcinoma
Orange (Orange County Pathology Medical Group) - Follicular adenoma
Oxnard (St. John's Regional Medical Center) - Hurthle cell neoplasm
San Diego (Naval Medical Center) - Follicular carcinoma
Santa Barbara - Follicular carcinoma
Woodland Hills - Follicular adenoma
Florida (Naples Pathology Associates) - Parathyroid adenoma
Florida (Tallahassee Pathology Associates) - Insular carcinoma
Georgia, Atlanta - Medullary carcinoma, rule out insular carcinoma
Illinois, Burr Ridge - Follicular adenoma
Illinois, Chicago - Follicular carcinoma (2)

Illinois (Heartland Regional Medical Center) - Follicular neoplasm, trabecular pattern, cannot assess capsule in available slide

Illinois, Oak Brook - Follicular neoplasia

Illinois (St. Mary's Hospital) - Hurthle cell adenoma

Maryland (University of Maryland Medical Center) - Follicular carcinoma

Minnesota (Fairview Ridges Hospital) - Follicular adenoma

Missouri (University of Missouri-Kansas City) - Hyalinizing trabecular adenoma

Nebraska (Creighton University Medical Center) - Hurthle cell neoplasm, favor adenoma

New York (Albany Medical Center) - Hurthle cell adenoma

New York (Erie County Medical Center) - Oncocytic adenoma of thyroid

New York (Long Island Jewish Medical Center) - Medullary carcinoma (need calcitonin to confirm)

New York (St. Lukes Roosevelt Hospital) - Follicular carcinoma with oncocytic features, vascular invasion identified

(3)

New York (SUNY Downstate Medical Center) - Follicular carcinoma, thyroid

New York (SUNY Stony Brook) - Hurthle cell adenoma

Ohio, Union Town - Follicular carcinoma, oncocytic type

Ohio (University of Toledo Medical Center) - Oncocytic adenoma

Pennsylvania (Conemaugh Memorial Hospital) - Parathyroid neoplasm favor carcinoma

Pennsylvania (Lehigh Valley Hospital) - Hurthle cell carcinoma

Pennsylvania (Magee Women's Hospital) - Hurthle cell carcinoma

Pennsylvania (York Hospital) - Follicular carcinoma

Puerto Rico (University of Puerto Rico) - Medullary carcinoma (1); thyroid adenoma (9)

Texas (Carl Darnall Army Medical Center) - Hurthle cell adenoma

Texas, Crystal Beach - Microfollicular, trabecular adenoma

Texas, Lubbock - Follicular adenoma, oncocytic type

Texas (Scott & White Hospital) - Hurthle cell carcinoma

Texas (UTHSC San Antonio Residents) - Follicular adenoma

Washington (University of Washington) - Microfollicular adenoma

Washington (Seattle VA) - Thyroid neoplasm, low grade endocrine growth pattern

West Virginia (Greenbrier Valley Medical Center) - Medullary carcinoma

Australia (St. Vincents Study Group) - Oncocytic follicular adenoma

Australia (Sullivan Nicolaides Pathology) - Hurthle cell tumor, thyroid

Canada (Pasqua Hospital) - Medullary carcinoma

Canada (University of Sherbrooke) - Oncocytic adenoma

Ireland (Kerry General Hospital) - Follicular adenoma

Japan (Asahi General Hospital) - Poorly differentiated carcinoma

Japan (Shizuoka Tokushu-kai Hospital) - Medullary carcinoma

Japan (University of Yamanashi) - Follicular tumor, oncocytic variant

Netherlands, Amstelveen - Oncocytic adenoma

Singapore (Freelance/Locum Practice) - Well-differentiated thyroid nodule vs. parathyroid neoplasm

United Kingdom (John Radcliffe Hospital) - Oncocytic neoplasm, favor carcinoma over adenoma

Case 3 - Diagnosis:

Hurthle cell carcinoma, thyroid
T-96000, M-82903

Case 3 - References:

Follicular and Hurthle cell carcinoma of the thyroid gland. Phitayakorn R; McHenry CR. *Surg Oncol Clin N Am* 2006 Jul;15(3): p603-23, ix-x

Does Hurthle cell lesion/neoplasm predict malignancy more than follicular lesion/neoplasm on thyroid fine-needle aspiration? Pu RT; Yang J, et al. *Diagn Cytopathol* 2006 May;34(5): p330-4

Hurthle cell carcinoma of the thyroid: Retrospective review of 62 patients treated at the Royal Marsden Hospital between 1946 and 2003. Mills SC; Haq M; Smellie WJ; Harmer C. *Eur J Surg Oncol* 2009 Mar;35(3): p230-4

Fine-needle aspiration cytology of Hurthle cell carcinoma of the thyroid. Wu HH; Clouse J; Ren R. *Diagn Cytopathol* 2008 Mar;36(3): p149-54

Alameda (Alameda County Medical Center) - Papillary thyroid carcinoma, follicular variant
Fontana (Kaiser Permanente Hospital) - Papillary carcinoma
Glendale - Follicular variant of papillary carcinoma
Hayward (St. Rose Hospital) - Follicular neoplasm UMP
Long Beach (Long Beach Veterans Medical Center) - Follicular variant of papillary carcinoma
Orange (Orange County Pathology Medical Group) - Papillary carcinoma, follicular variant
Oxnard (St. John's Regional Medical Center) - Follicular variant papillary adenocarcinoma
San Diego (Naval Medical Center) - Follicular variant papillary thyroid carcinoma
Santa Barbara - Papillary carcinoma follicular variant
Woodland Hills - Papillary carcinoma, follicular variant
Florida (Naples Pathology Associates) - Papillary thyroid carcinoma, follicular variant
Florida (Tallahassee Pathology Associates) - Papillary carcinoma, follicular variant
Georgia, Atlanta - Papillary thyroid carcinoma, follicular variant
Illinois, Burr Ridge - Follicular variant papillary carcinoma
Illinois, Chicago - Follicular adenoma (2)
Illinois (Heartland Regional Medical Center) - Papillary carcinoma, follicular variant
Illinois, Oak Brook - Papillary carcinoma, follicular variant
Illinois (St. Mary's Hospital) - Follicular variant of papillary carcinoma
Maryland (University of Maryland Medical Center) - Papillary carcinoma, follicular variant
Minnesota (Fairview Ridges Hospital) - Follicular variant of papillary carcinoma of the thyroid
Missouri (University of Missouri-Kansas City) - Papillary carcinoma, follicular variant
Nebraska (Creighton University Medical Center) - Papillary thyroid carcinoma
New York (Albany Medical Center) - Papillary cell carcinoma, follicular variant
New York (Erie County Medical Center) - Follicular variant of papillary carcinoma, thyroid
New York (Long Island Jewish Medical Center) - Papillary carcinoma, follicular variant
New York (St. Lukes Roosevelt Hospital) - Papillary carcinoma, follicular variant (3)
New York (SUNY Downstate Medical Center) - Papillary carcinoma, follicular type thyroid
New York (SUNY Stony Brook) - Follicular variant of papillary thyroid carcinoma
Ohio, Union Town - Papillary carcinoma, follicular variant
Ohio (University of Toledo Medical Center) - Papillary thyroid carcinoma, follicular variant
Pennsylvania (Conemaugh Memorial Hospital) - Papillary carcinoma of thyroid, follicular variant
Pennsylvania (Lehigh Valley Hospital) - Follicular variant of papillary carcinoma
Pennsylvania (Magee Women's Hospital) - Papillary carcinoma, follicular variant
Pennsylvania (York Hospital) - Papillary thyroid carcinoma, follicular variant
Puerto Rico (University of Puerto Rico) - Papillary carcinoma, follicular variant
Texas (Carl Darnall Army Medical Center) - Papillary thyroid carcinoma
Texas, Crystal Beach - Follicular variant papillary carcinoma
Texas, Lubbock - Follicular variant of papillary carcinoma
Texas (Scott & White Hospital) - Papillary carcinoma, follicular variant
Texas (UTHSC San Antonio Residents) - Follicular variant of papillary carcinoma
Washington (University of Washington) - Follicular variant papillary thyroid carcinoma
Washington (Seattle VA) - Thyroid carcinoma, well-differentiated, follicular variant
West Virginia (Greenbrier Valley Medical Center) - Nodular hyperplasia
Australia (St. Vincents Study Group) - Well-differentiated follicular tumor of uncertain malignant potential
Australia (Sullivan Nicolaides Pathology) - Follicular variant papillary carcinoma, thyroid
Canada (Pasqua Hospital) - Papillary carcinoma, follicular variant
Canada (University of Sherbrooke) - Papillary carcinoma, follicular type
Ireland (Kerry General Hospital) - Multinodular goiter
Japan (Asahi General Hospital) - Papillary carcinoma, follicular variant
Japan (Shizuoka Tokushu-kai Hospital) - Mixed medullary-follicular carcinoma
Japan (University of Yamanashi) - Papillary carcinoma, follicular variant
Netherlands, Amstelveen - Follicular variant of papillary thyroid carcinoma
Singapore (Freelance/Locum Practice) - Follicular variant of papillary carcinoma
United Kingdom (John Radcliffe Hospital) - Papillary carcinoma, follicular variant

Case 4 - Diagnosis:

Follicular variant of papillary carcinoma, thyroid
T-96000, M-80503

Case 4 - References:

Fine needle aspiration cytology of follicular variant of papillary carcinoma of the thyroid: Morphologic pointers to its diagnosis. Aron M; Mallik A; Verma K. *Acta Cytol* 2006 Nov-Dec;50(6): p663-8
Follicular variant of papillary thyroid carcinoma: diagnostic limitations of fine needle aspiration cytology. Shih SR; Shun CT, et al. *Acta Cytol* 2005 Jul-Aug;49(4): p383-6
Follicular neoplasm of the thyroid--vanishing cytologic diagnosis? Kapur U; Wojcik EM. *Diagn Cytopathol* 2007 Aug;35(8): p525-8
variant of papillary thyroid carcinoma: a clinicopathologic study of a problematic entity. Liu J; Singh B, et al. *Cancer* 2006 Sep 15;107(6): p1255-64
Papillary thyroid carcinoma: a root-and-branch rethink. Rosai J. *Am J Clin Pathol* 2008 Nov;130(5): p683-6

Case No. 5, Accession No. 31044**March 2010**

Alameda (Alameda County Medical Center) - Papillary thyroid carcinoma
Fontana (Kaiser Permanente Hospital) - Papillary carcinoma
Glendale - Papillary carcinoma
Hayward (St. Rose Hospital) - Papillary carcinoma
Long Beach (Long Beach Veterans Medical Center) - Papillary carcinoma
Orange (Orange County Pathology Medical Group) - Papillary carcinoma
Oxnard (St. John's Regional Medical Center) - Papillary thyroid carcinoma
San Diego (Naval Medical Center) - Papillary thyroid carcinoma
Santa Barbara - Papillary carcinoma
Woodland Hills - Papillary carcinoma
Florida (Naples Pathology Associates) - Papillary thyroid carcinoma, follicular variant
Florida (Tallahassee Pathology Associates) - Papillary carcinoma
Georgia, Atlanta - Papillary thyroid carcinoma
Illinois, Burr Ridge - Papillary carcinoma
Illinois, Chicago - Papillary carcinoma (2)
Illinois (Heartland Regional Medical Center) - Papillary carcinoma
Illinois, Oak Brook - Papillary carcinoma
Illinois (St. Mary's Hospital) - Papillary carcinoma of usual type
Maryland (University of Maryland Medical Center) - Papillary carcinoma
Minnesota (Fairview Ridges Hospital) - Papillary carcinoma of the thyroid
Missouri (University of Missouri-Kansas City) - Papillary carcinoma, classic variant
Nebraska (Creighton University Medical Center) - Papillary thyroid carcinoma, conventional type
New York (Albany Medical Center) - Papillary carcinoma
New York (Erie County Medical Center) - Papillary carcinoma of thyroid
New York (Long Island Jewish Medical Center) - Papillary carcinoma
New York (St. Lukes Roosevelt Hospital) - Papillary carcinoma (3)
New York (SUNY Downstate Medical Center) - Papillary carcinoma, thyroid
New York (SUNY Stony Brook) - Papillary thyroid carcinoma, tall cell variant
Ohio, Union Town - Papillary carcinoma
Ohio (University of Toledo Medical Center) - Papillary thyroid carcinoma
Pennsylvania (Conemaugh Memorial Hospital) - Papillary carcinoma of thyroid, classic
Pennsylvania (Lehigh Valley Hospital) - Papillary carcinoma
Pennsylvania (Magee Women's Hospital) - Papillary carcinoma
Pennsylvania (York Hospital) - Papillary thyroid carcinoma
Puerto Rico (University of Puerto Rico) - Papillary carcinoma
Texas (Carl Darnall Army Medical Center) - Papillary thyroid carcinoma
Texas, Crystal Beach - Papillary carcinoma
Texas, Lubbock - Papillary carcinoma

Texas (Scott & White Hospital) - Papillary carcinoma
Texas (UTHSC San Antonio Residents) - Papillary carcinoma
Washington (University of Washington) - Papillary thyroid carcinoma
Washington (Seattle VA) - Thyroid carcinoma, papillary growth pattern
West Virginia (Greenbrier Valley Medical Center) - Papillary carcinoma variant
Australia (St. Vincents Study Group) - Papillary thyroid carcinoma
Australia (Sullivan Nicolaides Pathology) - Papillary carcinoma, thyroid
Canada (Pasqua Hospital) - Encapsulated papillary carcinoma
Canada (University of Sherbrooke) - Papillary carcinoma
Ireland (Kerry General Hospital) - Papillary carcinoma
Japan (Asahi General Hospital) - Papillary carcinoma
Japan (Shizuoka Tokushu-kai Hospital) - Mixed medullary papillary carcinoma
Japan (University of Yamanashi) - Papillary carcinoma
Netherlands, Amstelveen - Papillary thyroid carcinoma
Singapore (Freelance/Locum Practice) - Papillary carcinoma
United Kingdom (John Radcliffe Hospital) - Papillary carcinoma

Case 5 - Diagnosis:

Papillary carcinoma (nos), thyroid
 T-96000, M-80503

Case 5 - References:

Synchronous papillary carcinoma in thyroglossal duct cyst and thyroid gland: case report and review of literature.

Cherian MP; Nair B, et. al. *Head Neck* 2009 Oct;31(10): p1387-91

Breast tumor resembling the tall cell variant of papillary thyroid carcinoma. Chang SY; Fleiszer DM, et. al. *Breast J* 2009 Sep-Oct;15(5): p531-5

High rate of multifocality and occult lymph node metastases in papillary thyroid carcinoma arising in thyroglossal duct cysts. Hartl DM; Al Ghuzlan A, et. al. *Ann Surg Oncol* 2009 Sep;16(9): p2595-601

Survival impact of psammoma body, stromal calcification, and bone formation in papillary thyroid carcinoma. Bai Y; Zhou G, et. al. *Mod Pathol* 2009 Jul;22(7): p887-94

Case No. 6, Accession No. 31112

March 2010

Alameda (Alameda County Medical Center) - Pancreatic endocrine tumor
Fontana (Kaiser Permanente Hospital) - Neuroendocrine carcinoma
Glendale - Pancreatic endocrine tumor
Hayward (St. Rose Hospital) - Pancreatic endocrine neoplasm (islet cell tumor)
Long Beach (Long Beach Veterans Medical Center) - Solid and pseudopapillary tumor of pancreas
Orange (Orange County Pathology Medical Group) - Solid and pseudopapillary neoplasm
Oxnard (St. John's Regional Medical Center) - Islet cell carcinoma
San Diego (Naval Medical Center) - Pancreatic endocrine neoplasm
Santa Barbara - Solid pseudopapillary neoplasm
Woodland Hills - Well-differentiated endocrine tumor, pancreatic
Florida (Naples Pathology Associates) - Pancreatic endocrine tumor
Florida (Tallahassee Pathology Associates) - Solid papillary tumor of the pancreas
Georgia, Atlanta - Pancreatic endocrine tumor
Illinois, Burr Ridge - Pancreatic endocrine neoplasm
Illinois, Chicago - Somatostatinoma (1); Islet cell tumor (1)
Illinois (Heartland Regional Medical Center) - Pancreatic endocrine tumor, well-differentiated (islet cell tumor)
Illinois, Oak Brook - Non-functional endocrine tumor
Illinois (St. Mary's Hospital) - Pancreatic endocrine neoplasm, well-differentiated
Maryland (University of Maryland Medical Center) - Well-differentiated pancreatic endocrine neoplasm
Minnesota (Fairview Ridges Hospital) - Pancreatic endocrine neoplasm (?insulinoma)
Missouri (University of Missouri-Kansas City) - Solid pseudopapillary tumor
Nebraska (Creighton University Medical Center) - Neuroendocrine tumor

New York (Albany Medical Center) - Solid pseudopapillary neoplasm
New York (Erie County Medical Center) - Pancreatic endocrine neoplasm, low grade
New York (Long Island Jewish Medical Center) - Islet cell tumor
New York (St. Lukes Roosevelt Hospital) - Solid pseudopapillary tumor (1); Pancreatic endocrine neoplasm (2)
New York (SUNY Downstate Medical Center) - Pancreatic endocrine tumor/solitary pseudopapillary tumor of pancreas
New York (SUNY Stony Brook) - Pancreatic endocrine neoplasm
Ohio, Union Town - Pancreatic endocrine tumor
Ohio (University of Toledo Medical Center) - Pancreatic neuroendocrine tumor, suggestive of an insulinoma
Pennsylvania (Conemaugh Memorial Hospital) - Pancreatic neuroendocrine tumor
Pennsylvania (Lehigh Valley Hospital) - Solid and cystic papillary neoplasm
Pennsylvania (Magee Women's Hospital) - Islet cell tumor (PEN)
Pennsylvania (York Hospital) - Pancreatic endocrine neoplasm
Puerto Rico (University of Puerto Rico) - Solid pseudopapillary tumor
Texas (Carl Darnall Army Medical Center) - Pancreatic endocrine carcinoma
Texas, Crystal Beach - Solid pseudopapillary tumor
Texas, Lubbock - Islet cell tumor
Texas (Scott & White Hospital) - Pancreatic neuroendocrine tumor
Texas (UTHSC San Antonio Residents) - Solid pseudopapillary tumor
Washington (University of Washington) - Pancreatic endocrine neoplasm
Washington (Seattle VA) - Pancreas endocrine epithelial neoplastic growth
West Virginia (Greenbrier Valley Medical Center) - Pancreatic endocrine neoplasm
Australia (St. Vincents Study Group) - Low grade neuroendocrine tumor of pancreas and amyloid
Australia (Sullivan Nicolaides Pathology) - Pancreatic endocrine neoplasm
Canada (Pasqua Hospital) - Solid pseudopapillary neoplasm
Canada (University of Sherbrooke) - Pancreatic endocrine neoplasm
Ireland (Kerry General Hospital) - Solid pseudopapillary tumor of pancreas
Japan (Asahi General Hospital) - Well-differentiated endocrine tumor
Japan (Shizuoka Tokushu-kai Hospital) - Endocrine carcinoma
Japan (University of Yamanashi) - Solid pseudopapillary neoplasm
Netherlands, Amstelveen - Solid pseudopapillary tumor
Singapore (Freelance/Locum Practice) - Pancreatic endocrine neoplasm
United Kingdom (John Radcliffe Hospital) - Pancreatic endocrine neoplasm

Case 6 - Diagnosis:

Pancreatic endocrine neoplasm
 T-59000, M-80001

Case 6 - References:

Update on pancreatic endocrine tumors. Frankel WL. *Arch Pathol Lab Med* 2006 Jul;130(7): p963-6
 Pancreatic endocrine tumors with ductules. Chetty R; Asa SL; Adsay NV. *Am J Surg Pathol* 2005 Jan;29(1): p136-7;
 author reply 137-8
 Endocrine tumors of the pancreas. Simon P; Spilcke-Liss E; Wallaschofski H. *Endocrinol Metab Clin North Am* 2006
 Jun;35(2): p431-47, xii
 KIT is an independent prognostic marker for pancreatic endocrine tumors: a finding derived from analysis of islet cell
 differentiation markers. Zhang L; Smyrk TC, et. al. *Am J Surg Pathol* 2009 Oct;33(10): p1562-9

Case No. 7, Accession No. 30938

March 2010

Alameda (Alameda County Medical Center) - Pheochromocytoma
Fontana (Kaiser Permanente Hospital) - Pheochromocytoma
Glendale - Pheochromocytoma
Hayward (St. Rose Hospital) - Pheochromocytoma, adrenal
Long Beach (Long Beach Veterans Medical Center) - Pheochromocytoma
Orange (Orange County Pathology Medical Group) - Pheochromocytoma

Oxnard (St. John's Regional Medical Center) - Pheochromocytoma
San Diego (Naval Medical Center) - Pheochromocytoma
Santa Barbara - Pheochromocytoma
Woodland Hills - Pheochromocytoma
Florida (Naples Pathology Associates) - Pheochromocytoma
Florida (Tallahassee Pathology Associates) - Pheochromocytoma
Georgia, Atlanta - Pheochromocytoma
Illinois, Burr Ridge - Pheochromocytoma
Illinois, Chicago - Pheochromocytoma (2)
Illinois (Heartland Regional Medical Center) - Pheochromocytoma
Illinois, Oak Brook - Pheochromocytoma
Illinois (St. Mary's Hospital) - Pheochromocytoma
Maryland (University of Maryland Medical Center) - Pheochromocytoma
Minnesota (Fairview Ridges Hospital) - Pheochromocytoma
Missouri (University of Missouri-Kansas City) - Pheochromocytoma
Nebraska (Creighton University Medical Center) - Pheochromocytoma
New York (Albany Medical Center) - Pheochromocytoma
New York (Erie County Medical Center) - Pheochromocytoma
New York (Long Island Jewish Medical Center) - Pheochromocytoma
New York (St. Lukes Roosevelt Hospital) - Pheochromocytoma (3)
New York (SUNY Downstate Medical Center) - Pheochromocytoma
New York (SUNY Stony Brook) - Pheochromocytoma
Ohio, Union Town - Adrenal pheochromocytoma
Ohio (University of Toledo Medical Center) - Pheochromocytoma
Pennsylvania (Conemaugh Memorial Hospital) - Pheochromocytoma
Pennsylvania (Lehigh Valley Hospital) - Pheochromocytoma
Pennsylvania (Magee Women's Hospital) - Pheochromocytoma
Pennsylvania (York Hospital) - Pheochromocytoma
Puerto Rico (University of Puerto Rico) - Pheochromocytoma
Texas (Carl Darnall Army Medical Center) - Pheochromocytoma
Texas, Crystal Beach - Pheochromocytoma
Texas, Lubbock - Pheochromocytoma
Texas (Scott & White Hospital) - Pheochromocytoma
Texas (UTHSC San Antonio Residents) - Pheochromocytoma
Washington (University of Washington) - Pheochromocytoma
Washington (Seattle VA) - Adrenal gland, neuroendocrine growth (pheochromocytoma)
West Virginia (Greenbrier Valley Medical Center) - Pheochromocytoma
Australia (St. Vincents Study Group) - Pheochromocytoma
Australia (Sullivan Nicolaides Pathology) - Pheochromocytoma
Canada (Pasqua Hospital) - Pheochromocytoma
Canada (University of Sherbrooke) - Pheochromocytoma
Ireland (Kerry General Hospital) - Pheochromocytoma
Japan (Asahi General Hospital) - Pheochromocytoma
Japan (Shizuoka Tokushu-kai Hospital) - Pheochromocytoma
Japan (University of Yamanashi) - Pheochromocytoma
Netherlands, Amstelveen - Pheochromocytoma
Singapore (Freelance/Locum Practice) - Pheochromocytoma
United Kingdom (John Radcliffe Hospital) - Pheochromocytoma

Case 7 - Diagnosis:

Pheochromocytoma, adrenal
 T-93000, M-87000

Case 7 - References:

Biopsy of pheochromocytomas and paragangliomas: potential for disaster. Vanderveen KA; Thompson SM, et. al.
Surgery 2009 Dec;146(6): p1158-66

Clinical spectrum of pheochromocytoma. Guerrero MA; Schreinemakers JM, et. al. *J Am Coll Surg* 2009 Dec;209(6): p727-32

Composite pheochromocytoma: a clinicopathologic and molecular comparison with ordinary pheochromocytoma and neuroblastoma. Comstock JM; Willmore-Payne C, et. al. *Am J Clin Pathol* 2009 Jul;132(1): p69-73

Comparison of pheochromocytomas and abdominal and pelvic paragangliomas with head and neck paragangliomas. Al-Harthy M; Al-Harthy S, et. al. *Endocr Pract* 2009 May-Jun;15(3): p194-202

Diagnosis and treatment of pheochromocytoma in an academic hospital from 1997 to 2007. Yu R; Nissen NN, et. al. *Am J Med* 2009 Jan;122(1): p85-95

Case No. 8, Accession No. 30801

March 2010

Alameda (Alameda County Medical Center) - Adrenal cortical adenoma

Fontana (Kaiser Permanente Hospital) - Adenoma

Glendale - Adrenal cortical adenoma

Hayward (St. Rose Hospital) - Cortical adenoma, adrenal

Long Beach (Long Beach Veterans Medical Center) - Cortical adenoma

Orange (Orange County Pathology Medical Group) - Adrenal cortical adenoma

Oxnard (St. John's Regional Medical Center) - Adrenal cortical adenoma

San Diego (Naval Medical Center) - Adrenal cortical oncocytoma

Santa Barbara - Cortical adenoma

Woodland Hills - Adrenal cortical adenoma

Florida (Naples Pathology Associates) - Adrenocortical adenoma

Florida (Tallahassee Pathology Associates) - Adrenal cortical adenoma

Georgia, Atlanta - Adrenal cortical adenoma

Illinois, Burr Ridge - Adrenal cortical adenoma

Illinois, Chicago - Adrenocortical adenoma (2)

Illinois (Heartland Regional Medical Center) - Adrenal cortical adenoma

Illinois, Oak Brook - Cortical adenoma

Illinois (St. Mary's Hospital) - Adrenocortical adenoma with oncocytic features (oncocytic adenoma)

Maryland (University of Maryland Medical Center) - Adrenal cortical adenoma

Minnesota (Fairview Ridges Hospital) - Adrenal cortical adenoma

Missouri (University of Missouri-Kansas City) - Adrenal cortical adenoma

Nebraska (Creighton University Medical Center) - Adrenal cortical adenoma

New York (Albany Medical Center) - Adrenal cortical adenoma

New York (Erie County Medical Center) - Adrenal cortical adenoma

New York (Long Island Jewish Medical Center) - Adrenocortical adenoma

New York (St. Lukes Roosevelt Hospital) - Adrenal cortical adenoma (3)

New York (SUNY Downstate Medical Center) - Adrenal cortical adenoma

New York (SUNY Stony Brook) - Adrenal cortical adenoma

Ohio, Union Town - Adrenal cortical adenoma, oncocytic type

Ohio (University of Toledo Medical Center) - Adrenal cortical adenoma, cortisol-producing (Cushing adenoma)

Pennsylvania (Conemaugh Memorial Hospital) - Adrenal cortical adenoma

Pennsylvania (Lehigh Valley Hospital) - Adrenal cortical adenoma

Pennsylvania (Magee Women's Hospital) - Adenoma, oncocytic type

Pennsylvania (York Hospital) - Adrenal cortical adenoma

Puerto Rico (University of Puerto Rico) - Adrenocortical adenoma/oncocytoma

Texas (Carl Darnall Army Medical Center) - Oncocytic adrenocortical adenoma

Texas, Crystal Beach - Adrenal cortical adenoma

Texas, Lubbock - Adrenal gland adenoma

Texas (Scott & White Hospital) - Adrenal cortical adenoma

Texas (UTHSC San Antonio Residents) - Cortical adenoma

Washington (University of Washington) - Cortical adenoma

Washington (Seattle VA) - Adrenal cortical adenoma

West Virginia (Greenbrier Valley Medical Center) - Cortical adenoma

[Australia \(St. Vincents Study Group\)](#) - Adrenal cortical adenoma
[Australia \(Sullivan Nicolaides Pathology\)](#) - Adrenal cortical adenoma
[Canada \(Pasqua Hospital\)](#) - Adrenal cortical adenoma
[Canada \(University of Sherbrooke\)](#) - Adrenocortical adenoma
[Ireland \(Kerry General Hospital\)](#) - Cortical adenoma
[Japan \(Asahi General Hospital\)](#) - Adrenal cortical adenoma
[Japan \(Shizuoka Tokushu-kai Hospital\)](#) - Abnormal paraganglioma
[Japan \(University of Yamanashi\)](#) - Adrenal cortical adenoma
[Netherlands, Amstelveen](#) - Adrenal cortical adenoma
[Singapore \(Freelance/Locum Practice\)](#) - Adrenocortical adenoma
[United Kingdom \(John Radcliffe Hospital\)](#) - Adrenal cortical adenoma

Case 8 - Diagnosis:

Adrenal cortical adenoma
 T-93000, M-83700

Case 8 - References:

Precursor lesions of the adrenal gland. van Nederveen FH; de Krijger RR. *Pathobiology* 2007;74(5): p285-90
 Nestin expression in normal adrenal gland and adrenocortical tumors. Toti P; Regoli M, et. al. *Histol Histopathol* 2005 Oct;20(4): p1115-20
 Carney triad: a syndrome featuring paraganglionic, adrenocortical, and possibly other endocrine tumors. Carney JA. *J Clin Endocrinol Metab* 2009 Oct;94(10): p3656-62
 Cytomegalovirus and BK-Virus co-infection of a clinically non-functioning adrenal adenoma: innocent bystanders or new pathogenetic agents? Pomara G; Cappello F, et. al. *Eur J Histochem* 2006 Apr-Jun;50(2): p131-2
 Histologic criteria for adrenocortical proliferative lesions: value of mitotic figure variability. Blanes A; Diaz-Cano SJ. *Am J Clin Pathol* 2007 Mar;127(3): p398-408

Case No. 9, Accession No. 31064

March 2010

[Alameda \(Alameda County Medical Center\)](#) - Adrenal cortical adenoma
[Fontana \(Kaiser Permanente Hospital\)](#) - Adenoma
[Glendale](#) - Adrenal cortical adenoma
[Hayward \(St. Rose Hospital\)](#) - Cortical adenoma with Cushing's syndrome
[Long Beach \(Long Beach Veterans Medical Center\)](#) - Cortical carcinoma
[Orange \(Orange County Pathology Medical Group\)](#) - Adrenal cortical adenoma
[Oxnard \(St. John's Regional Medical Center\)](#) - Adrenal cortical adenoma
[San Diego \(Naval Medical Center\)](#) - Adrenal cortical adenoma
[Santa Barbara](#) - Cortical adenoma
[Woodland Hills](#) - Adrenal cortical adenoma
[Florida \(Naples Pathology Associates\)](#) - Adrenocortical adenoma
[Florida \(Tallahassee Pathology Associates\)](#) - Adrenal cortical adenoma
[Georgia, Atlanta](#) - Nodular adrenal hyperplasia
[Illinois, Burr Ridge](#) - Adrenal cortical adenoma
[Illinois, Chicago](#) - Adrenocortical carcinoma (2)
[Illinois \(Heartland Regional Medical Center\)](#) - Adrenal cortical adenoma
[Illinois, Oak Brook](#) - Cortical adenoma
[Illinois \(St. Mary's Hospital\)](#) - Adrenocortical adenoma
[Maryland \(University of Maryland Medical Center\)](#) - Adrenal nodular hyperplasia
[Minnesota \(Fairview Ridges Hospital\)](#) - Adrenal cortical hyperplasia
[Missouri \(University of Missouri-Kansas City\)](#) - Adrenal cortical adenoma
[Nebraska \(Creighton University Medical Center\)](#) - Adrenal cortical adenoma
[New York \(Albany Medical Center\)](#) - Adrenal cortical adenoma
[New York \(Erie County Medical Center\)](#) - Adrenal cortical adenoma
[New York \(Long Island Jewish Medical Center\)](#) - Adrenal cortical adenoma

New York (St. Lukes Roosevelt Hospital) - Adrenal cortical adenoma (3)
New York (SUNY Downstate Medical Center) - Adrenal cortical adenoma/hyperplasia
New York (SUNY Stony Brook) - Adrenal cortical adenoma
Ohio, Union Town - Adrenal cortical adenoma
Ohio (University of Toledo Medical Center) - Adrenal cortical adenoma
Pennsylvania (Conemaugh Memorial Hospital) - Adrenal cortical adenoma
Pennsylvania (Lehigh Valley Hospital) - Adrenal cortical adenoma
Pennsylvania (Magee Women's Hospital) - Adrenal cortical adenoma
Pennsylvania (York Hospital) - Adrenal cortical adenoma
Puerto Rico (University of Puerto Rico) - Adrenocortical adenoma
Texas (Carl Darnall Army Medical Center) - Adrenocortical adenoma
Texas, Crystal Beach - Steroid secreting cortical hyperplasia (Cushing)
Texas, Lubbock - Adrenal gland hyperplasia
Texas (Scott & White Hospital) - Adrenal cortical adenoma
Texas (UTHSC San Antonio Residents) - Cortical adenoma
Washington (University of Washington) - Cortical adenoma
Washington (Seattle VA) - Adrenal cortical neoplasm, probably adenoma
West Virginia (Greenbrier Valley Medical Center) - Aldosterone secreting cortical adenoma
Australia (St. Vincents Study Group) - Adrenal cortical adenoma
Australia (Sullivan Nicolaides Pathology) - Adrenal cortical adenoma
Canada (Pasqua Hospital) - Adrenal cortical adenoma
Canada (University of Sherbrooke) - Adrenocortical adenoma
Ireland (Kerry General Hospital) - Cortical adenoma
Japan (Asahi General Hospital) - Adrenal cortical adenoma
Japan (Shizuoka Tokushu-kai Hospital) - Adrenal cortical adenoma
Japan (University of Yamanashi) - Adrenal cortical adenoma
Netherlands, Amstelveen - Adrenal cortical hyperplasia
Singapore (Freelance/Locum Practice) - Adrenocortical adenoma
United Kingdom (John Radcliffe Hospital) - Adrenal cortical adenoma

Case 9 - Diagnosis:

Adrenal cortical adenoma with paradoxical hyperplasia
 T-93000, M-83700

Consultation: Dr. Lester Thompson, CTTR speaker on endocrine pathology, June, 2010: "Adrenal Cortical Adenoma with Paradoxical Hyperplasia"

Case 9 - References:

See references for Case 8

Case No. 10, Accession No. 31008

March 2010

Alameda (Alameda County Medical Center) - Adrenal cortical carcinoma
Fontana (Kaiser Permanente Hospital) - Cortical carcinoma
Glendale - Adrenal cortical carcinoma
Hayward (St. Rose Hospital) - Adrenal adenoma UMP with virilization
Long Beach (Long Beach Veterans Medical Center) - Adrenal cortical carcinoma
Orange (Orange County Pathology Medical Group) - Adrenal cortical adenoma
Oxnard (St. John's Regional Medical Center) - Adrenal cortical carcinoma
San Diego (Naval Medical Center) - Adrenal cortical carcinoma
Santa Barbara - Cortical carcinoma
Woodland Hills - Adrenal cortical carcinoma
Florida (Naples Pathology Associates) - Adrenocortical carcinoma
Florida (Tallahassee Pathology Associates) - Pediatric adrenal cortical neoplasm with malignant features

Georgia, Atlanta - Adrenal carcinoma
Illinois, Burr Ridge - Adrenal cortical carcinoma
Illinois, Chicago - Adrenocortical carcinoma (2)
Illinois (Heartland Regional Medical Center) - Adrenal cortical neoplasm, favor carcinoma
Illinois, Oak Brook - Adrenal cortical carcinoma
Illinois (St. Mary's Hospital) - Adrenocortical carcinoma
Maryland (University of Maryland Medical Center) - Adrenocortical carcinoma
Minnesota (Fairview Ridges Hospital) - Adrenal cortical carcinoma
Missouri (University of Missouri-Kansas City) - Adrenocortical carcinoma
Nebraska (Creighton University Medical Center) - Adrenal cortical adenoma
New York (Albany Medical Center) - Adrenal cortical carcinoma
New York (Erie County Medical Center) - Adrenal cortical carcinoma
New York (Long Island Jewish Medical Center) - Adrenocortical carcinoma
New York (St. Lukes Roosevelt Hospital) - Adrenal cortical carcinoma (3)
New York (SUNY Downstate Medical Center) - Adrenal cortical carcinoma
New York (SUNY Stony Brook) - Adrenal cortical carcinoma
Ohio, Union Town - Adrenal cortical carcinoma
Ohio (University of Toledo Medical Center) - Pediatric adrenal cortical carcinoma
Pennsylvania (Conemaugh Memorial Hospital) - Adrenal cortical carcinoma
Pennsylvania (Lehigh Valley Hospital) - Adrenal cortical carcinoma
Pennsylvania (Magee Women's Hospital) - Adrenal cortical carcinoma
Pennsylvania (York Hospital) - Adrenal cortical carcinoma
Puerto Rico (University of Puerto Rico) - Adrenocortical carcinoma
Texas (Carl Darnall Army Medical Center) - Adrenocortical carcinoma
Texas, Crystal Beach - Virilizing adrenal cortical adenoma
Texas, Lubbock - Adrenal carcinoma
Texas (Scott & White Hospital) - Adrenal cortical carcinoma
Texas (UTHSC San Antonio Residents) - Adrenal cortical carcinoma
Washington (University of Washington) - Adrenal cortical carcinoma
Washington (Seattle VA) - Adrenal cortical neoplasm, probably carcinoma
West Virginia (Greenbrier Valley Medical Center) - Adrenal cortical carcinoma
Australia (St. Vincents Study Group) - Adrenal cortical carcinoma
Australia (Sullivan Nicolaides Pathology) - Adrenal cortical carcinoma
Canada (Pasqua Hospital) - Adrenal cortical carcinoma
Canada (University of Sherbrooke) - Adrenal cortical carcinoma
Ireland (Kerry General Hospital) - Adrenocortical carcinoma
Japan (Asahi General Hospital) - Adrenal cortical carcinoma
Japan (Shizuoka Tokushu-kai Hospital) - Adrenal cortical carcinoma
Japan (University of Yamanashi) - Adrenal cortical carcinoma
Netherlands, Amstelveen - Adrenal cortical adenoma
Singapore (Freelance/Locum Practice) - Adrenocortical neoplasm, uncertain malignant potential
United Kingdom (John Radcliffe Hospital) - Adrenal cortical carcinoma

Case 10 - Diagnosis:

Adrenal cortical carcinoma
 T-93000, M-83703

Case 10 - References:

Adrenal cortical neoplasms in children: why so many carcinomas and yet so many survivors? Dehner LP; Hill DA.
Pediatr Dev Pathol 2009 Jul-Aug;12(4): p284-91
 Fine-needle aspiration of adrenal cortical carcinoma: cytologic spectrum and diagnostic challenges. Ren R; Guo M, et al.
Am J Clin Pathol 2006 Sep;126(3): p389-98
 Outcomes of adrenal cortical carcinoma in the United States. Paton BL; Novitsky YW, et. al. *Surgery* 2006 Dec;140(6): p914-20; discussion 919-20
 Adrenocortical carcinoma invading the inferior vena cava: case report and literature review. Mezhr JJ; Song J, et. al.
Endocr Pract 2008 Sep;14(6): p721-5
 Adrenocortical carcinoma. Chouairy CJ; Abdul-Karim F; MacLennan GT. *J Urol* 2008 Jan;179(1): p323

