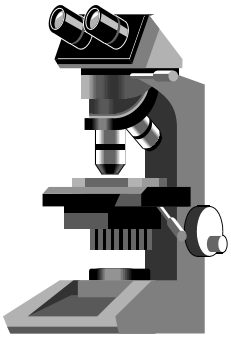
CALIFORNIA
TUMOR TISSUE REGISTRY

# *ENDOCRINE PATHOLOGY*

## Minutes – Subscription A

## November, 2006



**SUGGESTED READING (General Topics from Recent Literature):**


Pediatric Salivary Gland Malignancies. Shapiro NL and Bhattacharyya N., *Otolaryngol Head Neck Surg* 2006; 134:631-634.

Implications of Intratubular Seminoma. Berney DM, Lee A, et al. *Hum Pathol* 2006; 37:458-461.

High-Grade Pelvic Urothelial Carcinoma of the Renal Pelvis. Clinicopathologic Study of 108 Cases With Emphasis on Unusual Morphologic Variants. Perez-Montiel D, Wakely PE JR, et al. *Mod Pathol* 2006; 19:494-503.

Special Stains for Upper GI Biopsies Not That Helpful. Wright CI and Kelly JK. *Am J Surg Pathol* 2006; 30:357-361.

Ovarian Krukenberg Tumors. Kiyokawa T, Young RH, Scully RE, et al. *Am J Surg Pathol* 2006; 30:277-299.



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## FILE DIAGNOSES

(Preferably submitted on website at www.cttr.org. Click "subscriptions", then submit answers".)

### CTTR Subscription A November, 2006

**Case 1:**
Adrenal cortical hyperplasia, nodular
T-93000, M-83700

**Case 2:**
Pheochromocytoma, adrenal gland
T-93000, M-87000

**Case 3:**
Adrenal cortical adenoma
T-93000, M-81400

**Case 4:**
Pheochromocytoma, adrenal
T-93000, M-87000

**Case 5:**
Papillary carcinoma, thyroid
T-96200, M-80503

**Case 6:**
Tall cell/columnar papillary carcinoma, thyroid
T-96000, M-45810

**Case 7:**
Medullary carcinoma, thyroid
T-96000, M-85103

**Case 8:**
Sclerosing mucoepidermoid carcinoma with eosinophilia, thyroid
T-96000, M-84303

**Case 9:**
Adrenal cortical carcinoma
T-93100, M-83703

**Case 10:**
Nodular sclerosing Hodgkin's lymphoma, thyroid
T-96100, M-96563

## Case No. 1, Accession No. 29173 November 2006

Alameda - Adrenal cortical hyperplasia, nodular
Baldwin Park (Kaiser Permanente) - Adrenal cortical hyperplasia (4)
Chico - Nodular adrenal cortical hyperplasia
La Jolla (Scripps Health) - Adrenal cortical hyperplasia with atypia
Long Beach - Adrenal cortical hyperplasia (5)
Monterey (Community Hospital of the Monterey Peninsula) - Acquired hyperplasia
Oakland - Adrenal hyperplasia
Orange (Kaiser Permanente) - Multinodular adrenal cortical hyperplasia
Orange (Orange County Medical Group) - Adrenal cortical hyperplasia
Orange (UCI Medical Center) - Cortical hyperplasia
Oxnard (St. John's Regional Medical Center) - Adrenal cortical hyperplasia
Sacramento (UC Davis Residents) - Primary pigmented nodular adrenocortical disease
San Diego (UCSD) - Diffuse adrenocortical hyperplasia
Santa Barbara - Adrenal cortical hyperplasia
Santa Rosa - Nodular adrenal hyperplasia (3)
Woodland Hills (Suda's Soldiers) - Adrenal cortical hyperplasia (pituitary, ectatic) (1); Adrenal cortical hyperplasia (1)
Arkansas (University of Arkansas for Medical Sciences) - Adrenocortical nodular hyperplasia, adrenal
Florida, Ameripath - Adrenal hemorrhage
Florida (Jackson Memorial Hospital) - Adrenal gland hyperplasia
Florida (Munroe Regional Medical Center) - Micronodular hyperplasia
Florida (Tallahassee Pathology Associates) - Adrenal cortical hyperplasia
Florida (Winter Haven Hospital) - Adrenocortical hyperplasia
Georgia (Wellstar Kennestone Hospital) - Primary pigmented nodular adenocortical disease
Illinois (MacNeal Memorial Hospital) - Cortical nodule/adenoma (1); Adrenal cortical hyperplasia (Cushing syndrome) (1)
Illinois (Heartland Regional Medical Center) - Adrenal cortical hyperplasia
Indiana (Howard Regional Medical Center) - Adrenocortical hyperplasia
Massachusetts (Berkshire Medical Center) - Bilateral adrenal hyperplasia
Massachusetts (Tufts-New England Medical Center Residents) - Pigmented nodular hyperplasia
Michigan (Oakwood Hospital) - Adrenal hyperplasia (1); Diffuse hyperplasia (1)
Nebraska (Creighton University) - Adrenal cortical hyperplasia
New York (Nassau University Medical Center) - Nodular cortical hyperplasia, adrenal, functional
New York (SUNY Stony Brook) - Cortical adrenal hyperplasia
North Carolina (Mountain Area Pathology) - Adrenal cortical hyperplasia (1); Nodular hyperplasia (2)
Pennsylvania (Conemaugh Memorial Medical Center) - Adrenal hyperplasia
Pennsylvania (Lehigh Valley Hospital) - Diffuse cortical hyperplasia
Pennsylvania (Magee Women's Hospital) - Adrenocortical hyperplasia
Pennsylvania (Mt. Nittany Medical Center) - Macronodular adrenal hyperplasia with hypercortisolism
Pennsylvania (Pennsylvania Hospital Residents) - Adrenal hyperplasia
Texas (The Methodist Hospital) - Adrenocortical hyperplasia
Texas, Houston - Nodular adrenocortical hyperplasia
Texas, Lubbock - Nodular hyperplasia
West Virginia (Greenbrier Valley Medical Center) - Adrenal nodular hyperplasia
West Virginia (Wetzel County Hospital) - Cortical hyperplasia
Canada (Pasqua Hospital) - Cortical hyperplasia
Canada (Sherbrooke University Hospital) - Nodular hyperplasia of the adrenal gland
Germany (Institut fur Pathologie UKE) - Adrenal cortical hyperplasia
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Adrenal cortical hyperplasia
Qatar (Hamad Medical Corporation) - Adrenal cortical hyperplasia
Saudi Arabia (King Fahad National Guard Hospital) - Adrenal hyperplasia
The Netherlands, Amstelveen - Adrenal cortical hyperplasia
United Kingdom (Oxford Study Group) - Adrenal diffuse cortical hyperplasia

**Case 1 - Diagnosis:**

Adrenal cortical hyperplasia, nodular
T-93000, M-83700

Directors note: "The process also shows focal pigmentation in a minority of the slides." drc.

Case 1 – References:

Kohler G, Anding K, and Bohm N. Primary Pigmented Nodular Adrenocortical Dysplasia. *Pathol, Research, & Practice* 1998; 194(3):201-204.

Wu HH, Cramer HM, Kho J, et al. Fine Needle Aspiration Cytology of Benign Adrenal Cortical Nodules. A Comparision of Cytologic Findings with Those of Primary and Metastatic Adrenal Malignancies. *Acta Cytologica* 1998; 42(6):1352-1358.

Endo H and Oka T. Juxta-Adrenal Cortical Cell Nests or Nodular Formation in the Younger Generation. What Does It Mean? *Pathol, Research & Practice* 1998; 194(11):765-772.

Terzolo M, Boccuzzi A, Ali A, et al. Cushing's Syndrome Due to ACTH-Independent Bilateral Adrenocortical Macronodular Hyperplasia. *J of Endocrine Invest* 1997; 20(5):270-275.

Jalali M and Krishnamurthy S. Comparision of Immunomarkers for the Identification of Adrenocortical Cells in Cytology Specimens. *Diag Cytopathol* 2005; 33(2):78-82.

## Case No. 2, Accession No. 29472 November 2006

Alameda - Pheochromocytoma
Baldwin Park (Kaiser Permanente) - Pheochromocytoma (4)
Chico - Pheochromocytoma
La Jolla (Scripps Health) - Pheochromocytoma
Long Beach - Pheochromocytoma (5)
Monterey (Community Hospital of the Monterey Peninsula) - Pheochromocytoma
Oakland - Pheochromocytoma
Orange (Kaiser Permanente) - Pheochromocytoma
Orange (Orange County Medical Group) - Pheochromocytoma
Orange (UCI Medical Center) - Pheochromocytoma
Oxnard (St. John's Regional Medical Center) - Pheochromocytoma (2)
Sacramento (UC Davis Residents) - Pheochromocytoma
San Diego (UCSD) - Pheochromocytoma
Santa Barbara - Pheochromocytoma
Santa Rosa - Pheochromocytoma (3)
Woodland Hills (Suda's Soldiers) - Pheochromocytoma (2)
Arkansas (University of Arkansas for Medical Sciences) - Pheochromocytoma, adrenal
Florida, Ameripath - Medullary hyperplasia
Florida (Jackson Memorial Hospital) - Pheochromocytoma
Florida (Munroe Regional Medical Center) - Pheochromocytoma
Florida (Tallahassee Pathology Associates) - Pheochromocytoma
Florida (Winter Haven Hospital) - Pheochromocytoma
Georgia (Wellstar Kennestone Hospital) - Pheochromocytoma
Illinois (MacNeal Memorial Hospital) - Pheochromocytoma (2)
Illinois (Heartland Regional Medical Center) - Pheochromocytoma
Indiana (Howard Regional Medical Center) - Pheochromocytoma
Massachusetts (Berkshire Medical Center) - Pheochromocytoma
Massachusetts (Tufts-New England Medical Center Residents) - Pheochromocytoma
Michigan (Oakwood Hospital) - Pheochromocytoma (2)
Nebraska (Creighton University) - Pheochromocytoma
New York (Nassau University Medical Center) - Pheochromocytoma
New York (SUNY Stony Brook) - Pheochromocytoma
North Carolina (Mountain Area Pathology) - Pheochromocytoma (3)
Pennsylvania (Conemaugh Memorial Medical Center) - Pheochromocytoma
Pennsylvania (Lehigh Valley Hospital) - Pheochromocytoma
Pennsylvania (Magee Women's Hospital) - Pheochromocytoma
Pennsylvania (Mt. Nittany Medical Center) - Pheochromocytoma, adrenal gland
Pennsylvania (Pennsylvania Hospital Residents) - Pheochromocytoma
Texas (The Methodist Hospital) - Pheochromocytoma
Texas, Houston - Pheochromocytoma
Texas, Lubbock - Pheochromocytoma
West Virginia (Greenbrier Valley Medical Center) - Pheochromocytoma
West Virginia (Wetzel County Hospital) - Pheochromocytoma
Canada (Pasqua Hospital) - Pheochromocytoma
Canada (Sherbrooke University Hospital) - Pheochromocytoma

Germany (Institut fur Pathologie UKE) - Pheochromocytoma
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Pheochromocytoma
Qatar (Hamad Medical Corporation) - Pheochromocytoma
Saudi Arabia (King Fahad National Guard Hospital) - Pheochromocytoma
The Netherlands, Amstelveen - Pheochromocytoma of the adrenal gland
United Kingdom (Oxford Study Group) - Adrenal pheochromocytoma

**Case 2 - Diagnosis:**

Pheochromocytoma, adrenal gland
T-93000, M-87000

Case 2 - References:

Plouin PF and Gimenez-Roqueplo AP. The Genetic Basis of Pheochromocytoma. Who to Screen and How? *Nat Clin Pract Endocrinol Metab* 2006; 2(2):60-61.
Grodski S, Jung C, Kertes P, et al. Phaeochromocytoma in Pregnancy. *Intern Med J* 2006; 36(9):604-606.
Guller U, Turek J, Eubanks S, et al. Detecting Pheochromocytoma. Defining the Most Sensitive Test. *Ann Surg* 2006; 243(1):102-107.
Dahia PL, Hao K, Rogus J, et al. Novel Pheochromocytoma Susceptibility Loci Identified by Integrative Genomics. *Cancer Res* 2005; 65(21):9651-9658.
Handa U Khullar U and Mohan H. Pigmented Pheochromocytoma. Report of a Case with Diagnosis by Fine Needle Aspiration. *Acta Cytol* 2005; 49(4):421-423.

## Case No. 3, Accession No. 29239 November 2006

Alameda - Adrenal cortical neoplasm
Baldwin Park (Kaiser Permanente) - Cortical adenoma (adrenal) (4)
Chico - Adrenal cortical adenoma
La Jolla (Scripps Health) - Adrenal cortical neoplasm, favor adenoma
Long Beach - Adrenal cortical adenoma (5)
Monterey (Community Hospital of the Monterey Peninsula) - Adrenal cortical carcinoma (2); Adrenocortical adenoma (2)
Oakland - Cortical adenoma
Orange (Kaiser Permanente) - Adrenal cortical adenoma
Orange (Orange County Medical Group) - Adrenal cortical adenoma
Orange (UCI Medical Center) - Cortical adenoma
Oxnard (St. John's Regional Medical Center) - Adrenal cortical adenoma
Sacramento (UC Davis Residents) - Cortical adenoma
San Diego (UCSD) - Adrenocortical adenoma
Santa Barbara - Adrenal cortical adenoma
Santa Rosa - Invasive adenoma of adrenal gland (1); Adrenal cortical adenoma (2)
Woodland Hills (Suda's Soldiers) - Adrenal cortical adenoma (2)
Arkansas (University of Arkansas for Medical Sciences) - Adrenocortical adenoma, adrenal
Florida, Ameripath - Adrenal adenoma
Florida (Jackson Memorial Hospital) - Adrenal cortical adenoma
Florida (Munroe Regional Medical Center) - Cortical adenoma
Florida (Tallahassee Pathology Associates) - Adrenal adenoma
Florida (Winter Haven Hospital) - Adrenocortical adenoma
Georgia (Wellstar Kennestone Hospital) - Cortical adenoma
Illinois (MacNeal Memorial Hospital) - Cortical adenoma (2)
Illinois (Heartland Regional Medical Center) - Adrenal cortical neoplasm, favor adenoma
Indiana (Howard Regional Medical Center) - Adrenal cortical adenoma
Massachusetts (Berkshire Medical Center) - Adrenocortical adenoma
Massachusetts (Tufts-New England Medical Center Residents) - Adrenal cortical adenoma
Michigan (Oakwood Hospital) - Adrenal cortical adenoma (2)
Nebraska (Creighton University) - Adrenal cortical adenoma
New York (Nassau University Medical Center) - Cortical adenoma
New York (SUNY Stony Brook) - Cortical adrenal adenoma
North Carolina (Mountain Area Pathology) - Adrenal cortical neoplasm (3)
Pennsylvania (Conemaugh Memorial Medical Center) - Adrenal cortical adenoma

Pennsylvania (Lehigh Valley Hospital) - Cortical adenoma vs. focal nodular hyperplasia
Pennsylvania (Magee Women's Hospital) - Adenocortical adenoma
Pennsylvania (Mt. Nittany Medical Center) - Adrenocortical adenoma
Pennsylvania (Pennsylvania Hospital Residents) - Adrenal adenoma
Texas (The Methodist Hospital) - Adrenocortical adenoma
Texas, Houston - Adrenal adenoma
Texas, Lubbock - Cortical adenoma
West Virginia (Greenbrier Valley Medical Center) - Adrenal cortical adenoma
West Virginia (Wetzel County Hospital) - Cortical adenoma
Canada (Pasqua Hospital) - Cortical adenoma
Canada (Sherbrooke University Hospital) - Adenoma (fascicular bone)
Germany (Institut fur Pathologie UKE) - Adrenal cortical adenoma
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Adrenal cortical adenoma
Qatar (Hamad Medical Corporation) - Adrenal cortical adenoma
Saudi Arabia (King Fahad National Guard Hospital) - Adrenal cortical adenoma
The Netherlands, Amstelveen - Adrenal cortical adenoma
United Kingdom (Oxford Study Group) - Adrenal cortical adenoma

**Case 3 - Diagnosis:**

Adrenal cortical adenoma
T-93000, M-81400

Case 3 - References:

Ghorab Z, Jorda M, Ganjei P, et al. Melan A (A103) is Expressed in Adrenocortical Neoplasms But Not in Renal Cell and Hepatocellular Carcinomas. *Appl Immunohisto & Molecular Morphol* 2003; 11(4):330-333.
Zhang PJ, Genega EM, Tomaszewski JE, et al. The Role of Calretinin, Inhibin, Melan-A, BSL-2 and C-Kit in Differentiating Adrenal Cortical and Medullary Tumors. An Immunohistochemical Study. 2003; *Modern Pathol* 2003; 16(6):591-597.
Sasano H, Suzuki T and Moriya T. Discerning Malignancy in Resected Adrenocortical Neoplasms. *Endocrine Pathol* 2001; 12(4):397-406.
Stojadinovic A, Brennan MF, Hoos A, et al. Adrenocortical Adenoma and Carcinoma. Histopathological and Molecular Comparative Analysis. *Modern Pathol* 2003; 16(8):742-751.
Erickson LA, Lloyd RV, Hartman R, et al. Cystic Adrenal Neoplasms. *Cancer* 2004; 101(7):1537-1544.

## Case No. 4, Accession No. 30274 November 2006

Alameda - Pheochromocytoma
Baldwin Park (Kaiser Permanente) - Cortical adenoma (adrenal) (4)
Chico - Pheochromocytoma
La Jolla (Scripps Health) - Pheochromocytoma
Long Beach - Malignant pheochromocytoma (5)
Monterey (Community Hospital of the Monterey Peninsula) - Pheochromocytoma
Oakland - Adrenal carcinoma
Orange (Kaiser Permanente) - Pheochromocytoma
Orange (Orange County Medical Group) - Pheochromocytoma
Orange (UCI Medical Center) - Pheochromocytoma
Oxnard (St. John's Regional Medical Center) - Pheochromocytoma (2)
Sacramento (UC Davis Residents) - Pheochromocytoma
San Diego (UCSD) - Pheochromocytoma
Santa Barbara - Pheochromocytoma
Santa Rosa - Pheochromocytoma (3)
Woodland Hills (Suda's Soldiers) - Pheochromocytoma (2)
Arkansas (University of Arkansas for Medical Sciences) - Pheochromocytoma, adrenal
Florida, Ameripath - Pheochromocytoma
Florida (Jackson Memorial Hospital) - Pheochromocytoma
Florida (Munroe Regional Medical Center) - Nodular adrenal medullary hyperplasia
Florida (Tallahassee Pathology Associates) - Pheochromocytoma
Florida (Winter Haven Hospital) - Pheochromocytoma
Georgia (Wellstar Kennestone Hospital) - Pheochromocytoma
Illinois (MacNeal Memorial Hospital) - Neuroendocrine tumor (1); Adrenal cortical adenoma (Conn's syndrome) (1)

Illinois (Heartland Regional Medical Center) - Pheochromocytoma
Indiana (Howard Regional Medical Center) - Pheochromocytoma
Massachusetts (Berkshire Medical Center) - Pheochromocytoma
Massachusetts (Tufts-New England Medical Center Residents) - Pheochromocytoma
Michigan (Oakwood Hospital) - Pheochromocytoma (2)
Nebraska (Creighton University) - Pheochromocytoma
New York (Nassau University Medical Center) - Pheochromocytoma
New York (SUNY Stony Brook) - Pheochromocytoma
North Carolina (Mountain Area Pathology) - Pheochromocytoma (3)
Pennsylvania (Conemaugh Memorial Medical Center) - Pheochromocytoma
Pennsylvania (Lehigh Valley Hospital) - Pheochromocytoma
Pennsylvania (Magee Women's Hospital) - Pheochromocytoma
Pennsylvania (Mt.Nittany Medical Center) - Pheochromocytoma, adrenal gland
Pennsylvania (Pennsylvania Hospital Residents) - Pheochromocytoma
Texas (The Methodist Hospital) - Pheochromocytoma
Texas, Houston - Pheochromocytoma
Texas, Lubbock - Pheochromocytoma
West Virginia (Greenbrier Valley Medical Center) - Pheochromocytoma
West Virginia (Wetzel County Hospital) - Pheochromocytoma
Canada (Pasqua Hospital) - Pheochromocytoma
Canada (Sherbrooke University Hospital) - Pheochromocytoma
Germany (Institut fur Pathologie UKE) - Pheochromocytoma
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Pheochromocytoma
Qatar (Hamad Medical Corporation) - Pheochromocytoma
Saudi Arabia (King Fahad National Guard Hospital) - Pheochromocytoma
The Netherlands, Amstelveen - Adrenal pheochromocytoma
United Kingdom (Oxford Study Group) - Adrenal pheochromocytoma

**Case 4 - Diagnosis:**

Pheochromocytoma, adrenal
T-93000, M-87000

Case 4 - References:

Diner EK, Franks ME, Behari A, et al. Partial Adrenalectomy. The National Cancer Institute Experience. *Urol* 2005; 66(1):19-23.
Amar L, Servais A, Gimenez-Roqueplo AP, et al. Year of Diagnosis, Features at Presentation, and Risk of Recurrence in Patients with Pheochromocytoma or Secreting Paraganglioma. *J Clin Endocrinol Metab* 2005; 90(4):2110-2116.
Elder EE, Elder G and Larsson C. Pheochromocytoma and Functional Paraganglioma Syndrome. No longer the 10% Tumor. *J Surg Oncol* 2005; 89(3):193-201.
Naya Y, Ichikawa T, Suzuki H, et al. Efficacy and Safety of Laparoscopic Surgery for Pheochromocytoma. *Int J Urol* 2005; 12(2):128-133.
Westphal SA. Diagnosis of a Pheochromocytoma. *Am J Med Sci* 2005; 329(1):18-21.

## Case No. 5, Accession No. 29237 November 2006

Alameda - Papillary thyroid carcinoma
Baldwin Park (Kaiser Permanente) - Papillary carcinoma (4)
Chico - Papillary thyroid carcinoma
La Jolla (Scripps Health) - Papillary thyroid carcinoma
Long Beach - Papillary carcinoma of the thyroid (5)
Monterey (Community Hospital of the Monterey Peninsula) - Papillary thyroid carcinoma
Oakland - Papillary carcinoma
Orange (Kaiser Permanente) - Papillary thyroid carcinoma
Orange (Orange County Medical Group) - Papillary carcinoma
Orange (UCI Medical Center) - Papillary thyroid carcinoma
Oxnard (St. John's Regional Medical Center) - Papillary carcinoma of thyroid (2)
Sacramento (UC Davis Residents) - Papillary carcinoma of the thyroid
San Diego (UCSD) - Well-differentiated papillary thyroid carcinoma
Santa Barbara - Papillary carcinoma
Santa Rosa - Papillary carcinoma of thyroid (3)

Woodland Hills (Suda's Soldiers) - Papillary thyroid carcinoma (2)
Arkansas (University of Arkansas for Medical Sciences) - Papillary thyroid carcinoma, thyroid
Florida, Ameripath - Papillary thyroid carcinoma
Florida (Jackson Memorial Hospital) - Papillary thyroid carcinoma
Florida (Munroe Regional Medical Center) - Papillary carcinoma
Florida (Tallahassee Pathology Associates) - Papillary carcinoma of the thyroid
Florida (Winter Haven Hospital) - Papillary carcinoma
Georgia (Wellstar Kennestone Hospital) - Papillary thyroid carcinoma
Illinois (MacNeal Memorial Hospital) - Papillary carcinoma, thyroid
Illinois (Heartland Regional Medical Center) - Papillary carcinoma
Indiana (Howard Regional Medical Center) - Papillary carcinoma, thyroid
Massachusetts (Berkshire Medical Center) - Papillary carcinoma
Massachusetts (Tufts-New England Medical Center Residents) - Papillary carcinoma, thyroid
Michigan (Oakwood Hospital) - Papillary carcinoma (2)
Nebraska (Creighton University) - Papillary thyroid carcinoma
New York (Nassau University Medical Center) - Papillary thyroid carcinoma
New York (SUNY Stony Brook) - Papillary thyroid carcinoma, partly sclerotic
North Carolina (Mountain Area Pathology) - Papillary thyroid carcinoma (3)
Pennsylvania (Conemaugh Memorial Medical Center) - Papillary carcinoma of thyroid
Pennsylvania (Lehigh Valley Hospital) - Papillary carcinoma
Pennsylvania (Magee Women's Hospital) - Papillary carcinoma
Pennsylvania (Mt. Nittany Medical Center) - Papillary carcinoma, thyroid gland
Pennsylvania (Pennsylvania Hospital Residents) - Papillary carcinoma
Texas (The Methodist Hospital) - Papillary thyroid carcinoma
Texas, Houston - Papillary thyroid carcinoma
Texas, Lubbock - Papillary carcinoma of thyroid
West Virginia (Greenbrier Valley Medical Center) - Adenocarcinoma, papillary
West Virginia (Wetzel County Hospital) - Papillary carcinoma
Canada (Pasqua Hospital) - Papillary carcinoma and Hashimoto's disease
Canada (Sherbrooke University Hospital) - Papillary carcinoma
Germany (Institut fur Pathologie UKE) - Papillary carcinoma
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Papillary carcinoma of thyroid
Qatar (Hamad Medical Corporation) - Papillary thyroid carcinoma
Saudi Arabia (King Fahad National Guard Hospital) - Papillary thyroid carcinoma
The Netherlands, Amstelveen - Papillary thyroid carcinoma
United Kingdom (Oxford Study Group) - Thyroid papillary carcinoma

**Case 5 - Diagnosis:**

Papillary carcinoma, thyroid
T-96200, M-80503

Case 5 - References:

Mehmood RK, Basha SI and Ghareeb E. A Case of Papillary Carcinoma Arising in Ectopic Thyroid Tissue within a Branchial Cyst with Neck Node Metastasis. *Ear Nose Throat J* 2006; 85(10):675-676.
Haas SN. Management of Papillary Microcarcinoma of the Thyroid. *SD Med* 2006; 59(10):425-427.
Wang Z, Qiu S, Eltorky MA, et al. Histopathologic and Immunohistochemical Characterization of a Primary Papillary Thyroid Carcinoma in the Lateral Cervical Lymph Node. *Exp Mol Pathol* 2006.
Collini P Mattavelli F, Pellegrinelli A, et al. Papillary Carcinoma of the Thyroid Gland of Childhood and Adolescence. Morphologic Subtypes, Biologic Behavior and Prognosis. A Clinicopathologic Study of 42 Sporadic Cases Treated at a Single Institution During a 30-Year Period. *Am J Surg Pathol* 2006; 30(11):1420-1426.
Dionigi G, Dionigi R, Bartalena L, et al. Surgery of Lymph Nodes In Papillary Thyroid Cancer. *Exper Rev Anticancer Ther* 2006; 6(9):1217-1229.

## Case No. 6, Accession No. 30193 November 2006

Alameda - Papillary thyroid carcinoma, tall cell variant
Baldwin Park (Kaiser Permanente) - Papillary carcinoma ("tall cell" variant) (4)

Chico - Columnar cell carcinoma (columnar variant of papillary carcinoma)
La Jolla (Scripps Health) - Papillary thyroid carcinoma, columnar cell variant
Long Beach - Papillary carcinoma, tall cell variant (5)
Monterey (Community Hospital of the Monterey Peninsula) - Papillary thyroid carcinoma, tall cell variant (2); Follicular adenoma (1); Columnar cell carcinoma (1)
Oakland - Adenoma
Orange (Kaiser Permanente) - Papillary thyroid carcinoma, tall-cell variant
Orange (Orange County Medical Group) - Tall cell variant of papillary carcinoma
Orange (UCI Medical Center) - Papillary thyroid, columnar variant
Oxnard (St. John's Regional Medical Center) - Papillary carcinoma, tall cell variant (1); Follicular adenoma vs. tall cell variant (1)
Sacramento (UC Davis Residents) - Tall cell carcinoma of the thyroid
San Diego (UCSD) - Papillary thyroid carcinoma, columnar cell variant
Santa Barbara - Thyroid hyperplasia
Santa Rosa - Papillary carcinoma of tall cell variant (2); Papillary thyroid carcinoma, encapsulated (1)
Woodland Hills (Suda's Soldiers) - Papillary carcinoma, columnar variant (2)
Arkansas (University of Arkansas for Medical Sciences) - Papillary thyroid carcinoma, tall cell variant, thyroid
Florida, Ameripath - Tall cell papillary carcinoma
Florida (Jackson Memorial Hospital) - Columnar variant of papillary thyroid carcinoma
Florida (Munroe Regional Medical Center) - Papillary carcinoma, tall cell variant
Florida (Tallahassee Pathology Associates) - Papillary carcinoma of the thyroid
Florida (Winter Haven Hospital) - Columnar variant papillary carcinoma
Georgia (Wellstar Kennestone Hospital) - Papillary thyroid carcinoma, columnar variant
Illinois (MacNeal Memorial Hospital) - Papillary carcinoma, thyroid (1); Thyroid papillary carcinoma, tall cell variant (1)
Illinois (Heartland Regional Medical Center) - Follicular adenoma with papillary areas
Indiana (Howard Regional Medical Center) - Tall cell variant, papillary thyroid carcinoma
Massachusetts (Berkshire Medical Center) - Papillary carcinoma, variant tall cell
Massachusetts (Tufts-New England Medical Center Residents) - Papillary carcinoma, columnar type thyroid/medullary carcinoma
Michigan (Oakwood Hospital) - Papillary carcinoma, tall cell variant (2)
Nebraska (Creighton University) - Papillary thyroid carcinoma, tall/columnar cell variant
New York (Nassau University Medical Center) - Papillary thyroid carcinoma, columnar-tall cell type
New York (SUNY Stony Brook) - Tall cell variant, papillary thyroid carcinoma
North Carolina (Mountain Area Pathology) - Papillary thyroid carcinoma (2); Papillary thyroid carcinoma, tall cell type (1)
Pennsylvania (Conemaugh Memorial Medical Center) - Papillary carcinoma of thyroid, columnar variant
Pennsylvania (Lehigh Valley Hospital) - Papillary carcinoma, tall cell variant
Pennsylvania (Magee Women's Hospital) - Papillary carcinoma, tall cell variant
Pennsylvania (Mt. Nittany Medical Center) - Columnar cell carcinoma (a variant of papillary carcinoma), thyroid gland
Pennsylvania (Pennsylvania Hospital Residents) - Columnar cell carcinoma
Texas (The Methodist Hospital) - Papillary thyroid carcinoma (columnar cell variant)
Texas, Houston - Follicular adenoma with papillary hyperplasia
Texas, Lubbock - Papillary carcinoma, tall cell variant
West Virginia (Greenbrier Valley Medical Center) - Follicular variant of papillary carcinoma
West Virginia (Wetzel County Hospital) - Papillary carcinoma
Canada (Pasqua Hospital) - Papillary carcinoma, columnar cell type
Canada (Sherbrooke University Hospital) - Papillary carcinoma, tall cell variant
Germany (Institut fur Pathologie UKE) - Papillary carcinoma, columnar cell variant
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Papillary carcinoma of thyroid, tall cell variant
Qatar (Hamad Medical Corporation) - Columnar cell variant, papillary carcinoma
Saudi Arabia (King Fahad National Guard Hospital) - Papillary thyroid carcinoma
The Netherlands, Amstelveen - Columnar cell carcinoma of the thyroid
United Kingdom (Oxford Study Group) - Thyroid, tall cell variant papillary carcinoma, lymphocytic thyroiditis

**Case 6 - Diagnosis:**

Tall cell/columnar papillary carcinoma, thyroid
T-96000, M-45810

Case 6 - References:

Eusebi V, Damiani S, Ellis IO, et al. Breast Tumor Resembling the Tall Cell Variant of Papillary Thyroid Carcinoma. Report of 5 Cases. *Am J Surg Pathol* 2003; 27(8):1114-1118.

Gupta S, Sodhani P, Jain S, et al. Morphologic Spectrum of Papillary Carcinoma of the Thyroid. Role of Cytology in Identifying the Variants. *Acta Cytol* 2004; 48(6):795-800.

Yiagan LR, Dehner LP, Huettner PC, et al. Columnar Cell Variant of Papillary Thyroid Carcinoma. Report of a Case with Cytologic Findings. *Acta Cytol* 2004; 48(1):73-77.

Solomon A, Gupta PK, LiVolsi VA, et al. Distinguishing Tall Cell Variant of Papillary Thryoid Carcinoma from Usual Variant of Papillary Thyroid Carcinoma in Cytologic Specimens. *Diagn Cytopathol*; 2002; 27(3):143-148.

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## Case No. 7, Accession No. 30293 November 2006

Alameda - Medullary carcinoma
Baldwin Park (Kaiser Permanente) - Medullary carcinoma (4)
Chico - Medullary carcinoma
La Jolla (Scripps Health) - Medullary thyroid carcinoma
Long Beach - Medullary carcinoma (5)
Monterey (Community Hospital of the Monterey Peninsula) - Medullary carcinoma
Oakland - Medullary carcinoma
Orange (Kaiser Permanente) - Medullary carcinoma
Orange (Orange County Medical Group) - Medullary carcinoma
Orange (UCI Medical Center) - Medullary carcinoma
Oxnard (St. John's Regional Medical Center) - Medullary carcinoma (2)
Sacramento (UC Davis Residents) - Medullary carcinoma
San Diego (UCSD) - Medullary carcinoma
Santa Barbara - Carcinoma
Santa Rosa - Medullary carcinoma (3)
Woodland Hills (Suda's Soldiers) - Medullary carcinoma (2)
Arkansas (University of Arkansas for Medical Sciences) - Medullary carcinoma, thyroid
Florida, Ameripath - Medullary carcinoma
Florida (Jackson Memorial Hospital) - Medullary carcinoma, poorly differentiated
Florida (Munroe Regional Medical Center - Medullary carcinoma
Florida (Tallahassee Pathology Associates) - Medullary carcinoma of the thyroid
Florida (Winter Haven Hospital) - Medullary carcinoma
Georgia (Wellstar Kennestone Hospital) - Medullary carcinoma
Illinois (MacNeal Memorial Hospital) - Medullary carcinoma, thyroid (2)
Illinois (Heartland Regional Medical Center) - Medullary carcinoma
Indiana (Howard Regional Medical Center) - Medullary carcinoma
Massachusetts (Berkshire Medical Center) - Medullary carcinoma
Massachusetts (Tufts-New England Medical Center Residents) - Medullary carcinoma, thyroid
Michigan (Oakwood Hospital) - Medullary carcinoma, squamous variant (1); Medullary carcinoma (1)
Nebraska (Creighton University) - Medullary carcinoma
New York (Nassau University Medical Center) - Medullary carcinoma
New York (SUNY Stony Brook) - Medullary carcinoma, thyroid
North Carolina (Mountain Area Pathology) - Medullary thyroid carcinoma (3)
Pennsylvania (Conemaugh Memorial Medical Center) - Medullary carcinoma of thyroid
Pennsylvania (Lehigh Valley Hospital) - Medullary carcinoma
Pennsylvania (Magee Women's Hospital) - Medullary carcinoma
Pennsylvania (Mt. Nittany Medical Center) - Medullary carcinoma, thyroid gland
Pennsylvania (Pennsylvania Hospital Residents) - Medullary carcinoma
Texas (The Methodist Hospital) - Medullary thyroid carcinoma
Texas, Houston - Medullary thyroid carcinoma
Texas, Lubbock - Medullary carcinoma

West Virginia (Greenbrier Valley Medical Center) - Medullary carcinoma
West Virginia (Wetzel County Hospital) - Medullary carcinoma
Canada (Pasqua Hospital) - Medullary carcinoma
Canada (Sherbrooke University Hospital) - Medullary carcinoma
Germany (Institut fur Pathologie UKE) - Medullary carcinoma
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Medullary carcinoma of thyroid
Qatar (Hamad Medical Corporation) - Medullary carcinoma
Saudi Arabia (King Fahad National Guard Hospital) - Medullary carcinoma
The Netherlands, Amstelveen - Medullary carcinoma of the thyroid
United Kingdom (Oxford Study Group) - Thyroid, medullary carcinoma

**Case 7 - Diagnosis:**

Medullary carcinoma, thyroid
T-96000, M-85103

Case 7 - References:

Bockhorn M, Sheu SY, Frilling A, et al. Paraganglioma-Like Medullary Thryoid Carcinoma. A Rare Entity. *Thyroid* 2005; 15(12):1363-1367.
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Khurana R, Agarwal A, Bajpai VK, et al. Unraveling the Amyloid Associated with Human Medullary Thyroid Carcinoma. *Endocrinol* 2004; 145(12):5465-5470.
Ensinger C, Prommegger R, Kendler D, et al. Her2/Neu Expression in C-Cell Hyperplasia and Medullary Thyroid Carcinomas. *Anticancer Research* 2003; 23(3B):2241-2243.
Takami H. Medullary Thyroid Carcinoma and Multiple Endocrine Neoplasia Type 2. *Endocrine Pathol* 2003; 14(2):123-131.

## Case No. 8, Accession No. 29543 November 2006

Alameda - Sclerosing mucoepidermoid carcinoma with eosinophilia
Baldwin Park (Kaiser Permanente) - Poorly-differentiated carcinoma (2); Poorly differentiated carcinoma with squamous features (2)
Chico - Sclerosing mucoepidermoid carcinoma with eosinophilia
La Jolla (Scripps Health) - Sclerosing mucoepidermoid carcinoma with eosinophilia
Long Beach - Metastatic poorly differentiated squamous cell carcinoma, lung primary (5)
Monterey (Community Hospital of the Monterey Peninsula) - Anaplastic carcinoma (2); Sclerosing mucoepidermoid carcinoma with eosinophilia (2)
Oakland - Neuroendocrine vs. insular carcinoma
Orange (Kaiser Permanente) - Mucoepidermoid carcinoma
Orange (Orange County Medical Group) - Lymphocytic thyroiditis
Orange (UCI Medical Center) - Poorly differentiated squamous cell carcinoma
Oxnard (St. John's Regional Medical Center) - Sclerosing mucoepidermoid carcinoma with eosinophilia (2)
Sacramento (UC Davis Residents) - Metastatic squamous cell carcinoma of lung
San Diego (UCSD) - Sclerosing mucoepidermoid thyroid carcinoma with eosinophilic
Santa Barbara - Carcinoma
Santa Rosa - Mucoepidermoid carcinoma with eosinophilia associated with Hashimoto thyroiditis (2); Sclerosing mucoepidermoid carcinoma with eosinophilic (1)
Woodland Hills (Suda's Soldiers) - Mucoepidermoid carcinoma with eosinophilia (2)
Arkansas (University of Arkansas for Medical Sciences) - Sclerosing mucoepidermoid carcinoma with eosinophilia, thyroid
Florida, Ameripath - Squamous carcinoma
Florida (Jackson Memorial Hospital) - Squamous mucoepidermoid carcinoma with eosinophilia arising in Hashimoto's thyroiditis
Florida (Munroe Regional Medical Center) - Papillary carcinoma, sclerosing variant
Florida (Tallahassee Pathology Associates) - Medullary carcinoma of the thyroid
Florida (Winter Haven Hospital) - Sclerosing mucoepidermoid carcinoma
Georgia (Wellstar Kennestone Hospital) - PTCA with squamous differentiation
Illinois (MacNeal Memorial Hospital) - Mucoepidermoid carcinoma, thyroid (1); Mucoepidermal carcinoma, rule out metastatic carcinoma (1)
Illinois (Heartland Regional Medical Center) - Sclerosing mucoepidermoid carcinoma with eosinophilia
Indiana (Howard Regional Medical Center) - Mucoepidermoid carcinoma
Massachusetts (Berkshire Medical Center) - Sclerosing mucoepidermoid carcinoma with eosinophilia
Massachusetts (Tufts-New England Medical Center Residents) - Sclerosing mucoepidermoid carcinoma with eosinophilia

Michigan (Oakwood Hospital) - Sclerosing mucoepidermoid carcinoma with eosinophilia (2)
Nebraska (Creighton University) - Hashimoto's thyroiditis with squamous metaplasia vs. pure squamous cell carcinoma
New York (Nassau University Medical Center) - Mucoepithelioma
New York (SUNY Stony Brook) - Mucoepidermoid carcinoma with eosinophilia
North Carolina (Mountain Area Pathology) - Mucoepidermoid carcinoma, sclerosing variant (2); Mucoepidermoid carcinoma (1)
Pennsylvania (Conemaugh Memorial Medical Center) - Sclerosing mucoepidermoid tumor of thyroid
Pennsylvania (Lehigh Valley Hospital) - Sclerosing mucoepidermoid carcinoma with eosinophilia
Pennsylvania (Magee Women's Hospital) - Medullary carcinoma
Pennsylvania (Mt. Nittany Medical Center) - Primary thyroid mucoepidermoid carcinoma
Pennsylvania (Pennsylvania Hospital Residents) - Sclerosing mucoepidermoid carcinoma with eosinophilia
Texas (The Methodist Hospital) - Sclerosing mucoepidermoid carcinoma with eosinophilia
Texas, Houston - Sclerosing mucoepidermoid carcinoma with eosinophilia
Texas, Lubbock - Follicular carcinoma
West Virginia (Greenbrier Valley Medical Center) - Sclerosing anaplastic carcinoma
West Virginia (Wetzel County Hospital) - Thymoma
Canada (Pasqua Hospital) - Squamous cell carcinoma
Canada (Sherbrooke University Hospital) - Ectopic thymoma (2); Papillary carcinoma with squamous metaplasia (2)
Germany (Institut fur Pathologie UKE) - Sclerosing mucoepidermoid carcinoma with eosinophilia
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Poorly-differentiated carcinoma, thyroid
Qatar (Hamad Medical Corporation) - Sclerosing mucoepidermoid carcinoma with eosinophilia (6); Metastatic squamous cell carcinoma (2)
Saudi Arabia (King Fahad National Guard Hospital) - Hashimoto's thyroiditis, fibrous type
The Netherlands, Amstelveen - Anaplastic carcinoma of the thyroid with squamous differentiation
United Kingdom (Oxford Study Group) - Thyroid sclerosing mucoepidermoid carcinoma with eosinophilia

**Case 8 - Diagnosis:**

Sclerosing mucoepidermoid carcinoma with eosinophilia, thyroid
T-96000, M-84303

Case 8 – References:

Geisinger KR, Steffee CH, McGee RS, et al. The Cytomorphologic Features of Sclerosing Mucoepidermoid Carcinoma of the Thyroid Gland with Eosinophilia. *Am J Clin Pathol* 1998; 109(3):294-301.
Sim SJ, Ro JY, Ordonez NG, et al. Sclerosing Mucoepidermoid Carcinoma with Eosinophilia of the Thyroid. Report of Two Patients, One with Distant Metastasis, and Review of the Literature. *Hum Pathol* 1997; 28(9):1091-1096.
Bondeson L and Bondeson AG. Cytologic Features in Fine-Needle Aspirates from a Sclerosing Mucoepidermoid Thyroid Carcinoma with Eosinophilia. *Diagn Cytopathol* 1996; 15(4):301-305.
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## Case No. 9, Accession No. 30619 November 2006

Alameda - Adrenal cortical carcinoma
Baldwin Park (Kaiser Permanente) - Adrenal cortical carcinoma (3); Malignant pheochromocytoma (1)
Chico - Adrenal cortical carcinoma
La Jolla (Scripps Health) - Adrenal cortical carcinoma
Long Beach - Neuroendocrine carcinoma, high grade (5)
Monterey (Community Hospital of the Monterey Peninsula) - Adenocortical carcinoma
Oakland - Pheochromocytoma
Orange (Kaiser Permanente) - Adrenal cortical carcinoma
Orange (Orange County Medical Group) - Adrenal cortical carcinoma
Orange (UCI Medical Center) - Adrenal cortical carcinoma
Oxnard (St. John's Regional Medical Center) - Adrenal cortical carcinoma (2)
Sacramento (UC Davis Residents) - Cortical carcinoma
San Diego (UCSD) - Adrenocortical carcinoma
Santa Barbara - Adrenal cortical carcinoma
Santa Rosa - Adrenal cortical carcinoma with rhabdoid features (1); Adrenocortical carcinoma (1); Adrenal cortical adenocarcinoma

(1)
Woodland Hills (Suda's Soldiers) - Adrenal cortical carcinoma (2)
Arkansas (University of Arkansas for Medical Sciences) - Adrenal cortical carcinoma, adrenal
Florida, Ameripath - Adrenal carcinoma
Florida (Jackson Memorial Hospital) - Adrenal cortical carcinoma
Florida (Munroe Regional Medical Center) - Adrenal cortical carcinoma
Florida (Tallahassee Pathology Associates) - Adrenal cortical carcinoma
Florida (Winter Haven Hospital) - Adrenocortical carcinoma
Georgia (Wellstar Kennestone Hospital) - Adrenal cortical carcinoma
Illinois (MacNeal Memorial Hospital) - Adrenal cortical carcinoma (2)
Illinois (Heartland Regional Medical Center) - Adrenal cortical carcinoma
Indiana (Howard Regional Medical Center) - Adrenocortical carcinoma
Massachusetts (Berkshire Medical Center) - Adrenocortical carcinoma
Massachusetts (Tufts-New England Medical Center Residents) - Adrenocortical carcinoma
Michigan (Oakwood Hospital) - Adrenal cortical carcinoma (2)
Nebraska (Creighton University) - Adrenal cortical carcinoma
New York (Nassau University Medical Center) - Pheochromocytoma
New York (SUNY Stony Brook) - Myxoid cortical adrenal carcinoma
North Carolina (Mountain Area Pathology) - Adrenal cortical carcinoma (3)
Pennsylvania (Conemaugh Memorial Medical Center) - Adrenal cortical carcinoma
Pennsylvania (Lehigh Valley Hospital) - Adrenal cortical carcinoma
Pennsylvania (Magee Women's Hospital) - Adrenocortical carcinoma
Pennsylvania (Mt. Nittany Medical Center) - Malignant composite pheochromocytoma, adrenal gland
Pennsylvania (Pennsylvania Hospital Residents) - Malignant pheochromocytoma
Texas (The Methodist Hospital) - Adrenocortical carcinoma
Texas, Houston - Adrenocortical carcinoma
Texas, Lubbock - Adrenal cortical carcinoma
West Virginia (Greenbrier Valley Medical Center) - Adrenal carcinoma
West Virginia (Wetzel County Hospital) - Adrenal cortical carcinoma
Canada (Pasqua Hospital) - Adrenal cortical carcinoma
Canada (Sherbrooke University Hospital) - Adrenal cortical carcinoma
Germany (Institut fur Pathologie UKE) - Adrenal cortical carcinoma
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Malignant tumor, favor adrenal cortical carcinoma
Qatar (Hamad Medical Corporation) - Adrenocortical carcinoma
Saudi Arabia (King Fahad National Guard Hospital) - Adrenocortical carcinoma
The Netherlands, Amstelveen - Adrenal cortical carcinoma
United Kingdom (Oxford Study Group) - Adrenal cortical carcinoma

**Case 9 - Diagnosis:**

Adrenal cortical carcinoma
T-93100/T-56000, M-83703

Case 9 – References:

Stojadinovic A, Brennan MA, Hoos A, et al. Adrenocortical Adenoma and Carcinoma. Histopathological and Molecular Comparative Analysis. *Mod Pathol* 2003; 16(8):742-751.
Allolio B and Fassnacht M. Clinical Review. Adrenocortical Carcinoma. Clinical Update. *J of Clin Endo & Metabol* 2006; 91(6):2027-2037.
Sasano H, Suzuki T and Moriya T. Discerning Malignancy in Resected Adrenocortical Neoplasms. *Endo Pathol* 2001; 12(4):397-406.
Papewalis C, Fassnacht M, Willenberg HS, et al. Dendritic Cells as Potential Adjuvant for Immunotherapy in Adrenocortical Carcinoma. *Clin Endocrinol* 2006; 65(2):215-222.
Rodgers SE, Evans DB, Lee JE, et al. Adrenocortical Carcinoma. *Surg Oncol Clin N Am* 2006; 15(3):535-553.

## Case No. 10, Accession No. 30389 November 2006

Alameda - Hodgkin's lymphoma
Baldwin Park (Kaiser Permanente) - Hodgkin's lymphoma (nodular sclerosing) (2); Hodgkin's lymphoma (2)
Chico - Hodgkin's lymphoma, nodular sclerosing type
La Jolla (Scripps Health) - Hodgkin's lymphoma

Long Beach - Hodgkin's lymphoma, nodular sclerosing type (5)
Monterey (Community Hospital of the Monterey Peninsula) - Classical Hodgkin's lymphoma, nodular sclerosing type
Oakland - Hodgkin's disease (NS)
Orange (Kaiser Permanente) - Hodgkin's disease
Orange (Orange County Medical Group) - Hodgkin's disease
Orange (UCI Medical Center) - Hodgkin's disease (nodular sclerosing type)
Oxnard (St. John's Regional Medical Center) - Hodgkin's disease, nodular sclerosing (2)
Sacramento (UC Davis Residents) - Hodgkin's lymphoma, nodular sclerosing
San Diego (UCSD) - Nodular sclerosing Hodgkin's lymphoma
Santa Barbara - Hodgkin's disease
Santa Rosa - Hodgkin's lymphoma (3)
Woodland Hills (Suda's Soldiers) - Hodgkin's lymphoma vs. diffuse large B-cell with RS-like cells (1); Hodgkin's lymphoma (1)
Arkansas (University of Arkansas for Medical Sciences) - Hodgkin's lymphoma, thyroid
Florida, Ameripath - Hodgkin's lymphoma
Florida (Jackson Memorial Hospital) - Hodgkin's disease
Florida (Munroe Regional Medical Center) - Hodgkin's disease
Florida (Tallahassee Pathology Associates) - Hodgkin's lymphoma
Florida (Winter Haven Hospital) - Hodgkin's disease
Georgia (Wellstar Kennestone Hospital) - ALCL vs. HD
Illinois (MacNeal Memorial Hospital) - Hodgkin's lymphoma (2)
Illinois (Heartland Regional Medical Center) - Hodgkin's lymphoma, nodular sclerosis
Indiana (Howard Regional Medical Center) - Hodgkin's disease
Massachusetts (Berkshire Medical Center) - Hodgkin's lymphoma
Massachusetts (Tufts-New England Medical Center Residents) - Hodgkin's lymphoma, thyroid
Michigan (Oakwood Hospital) - Hodgkin's lymphoma, classic type (2)
Nebraska (Creighton University) - Hodgkin's lymphoma, nodular sclerosis type
New York (Nassau University Medical Center) - Hodgkin's lymphoma
New York (SUNY Stony Brook) - Hodgkin's lymphoma, nodular sclerosing variant
North Carolina (Mountain Area Pathology) - Hodgkin's lymphoma (3)
Pennsylvania (Conemaugh Memorial Medical Center) - Anaplastic large cell lymphoma
Pennsylvania (Lehigh Valley Hospital) - Hodgkin's lymphoma, nodular sclerosing type
Pennsylvania (Magee Women's Hospital) - Hodgkin's lymphoma
Pennsylvania (Mt. Nittany Medical Center) - Hodgkin's lymphoma
Pennsylvania (Pennsylvania Hospital Residents) - Nodular sclerosing Hodgkin's
Texas (The Methodist Hospital) - Anaplastic large cell lymphoma
Texas, Houston - Hodgkin's lymphoma, NS type
Texas, Lubbock - Hodgkin's lymphoma, nodular sclerosis
West Virginia (Greenbrier Valley Medical Center) - Anaplastic large cell lymphoma
West Virginia (Wetzel County Hospital) - Hodgkin's disease, nodular sclerosis
Canada (Pasqua Hospital) - Hodgkin's disease
Canada (Sherbrooke University Hospital) - Hodgkin's lymphoma
Germany (Institut fur Pathologie UKE) - Hodgkin's lymphoma
Hong Kong (Pamela Youde Nethersole Eastern Hospital) - Hodgkin's lymphoma, nodular sclerosis
Qatar (Hamad Medical Corporation) - Hodgkin's lymphoma
Saudi Arabia (King Fahad National Guard Hospital) - Hodgkin's lymphoma
The Netherlands, Amstelveen - Hodgkin's lymphoma of the thyroid
United Kingdom (Oxford Study Group) - Thyroid, nodular sclerosing Hodgkin's lymphoma

**Case 10 - Diagnosis:**

Nodular sclerosing Hodgkin's lymphoma, thyroid
T-96100, M-96563

Case 10 - References:

Wang SA, Rahemtullah A, Faquin WE, et al. Hodgkin's Lymphoma of the Thyroid. A Clinicopathologic Study of Five Cases and Review of the Literature. *Mod Pathol* 2005; 18(12):1577-1584.

Acosta-Ortega J, Montalban-Romero S, Garcia-Solano J, et al. Simultaneous Medullary Carcinoma of the Thyroid Gland and Hodgkin's Lymphoma in Bilateral Lymph Nodes of the Neck. A Potential Pitfall in Fine-Needle Aspiration Cytology. *Diagn Cytopathol* 2004; 31(4):255-258.

Khurana KK, Stanley MW, Powers CN, et al. Aspiration Cytology of Malignant Neoplasms Associated with Granulomas and Granuloma-Like Features. Diagnostic Dilemmas. *Cancer* 1998; 84(2):84-91.

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Weber AL, Rahemtullah A and Ferry JA. Hodgkin and Non-Hodgkin Lymphoma of the Head and Neck. Clinical, Pathologic, and Imaging Evaluation. *Neuroimaging Clin N Am* 2003; 13(3):371-392.