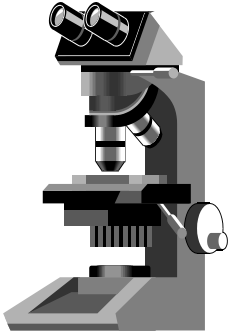


CALIFORNIA
TUMOR TISSUE REGISTRY



ENDOCRINE PATHOLOGY

Minutes – Subscription A

February 1999

SUGGESTED READING (General Topics from Recent Literature):

- A Malignant Small Cell Tumor in a Child. Four Wrongs Do Not Make a Right. Dehner LP. *Am J of Clinic Pathol* 1998; 662-667.
- Recommendations for the Reporting of Pancreatic Specimens Containing Malignant Tumors. Jorge Albores-Saavedra, Heffess C, Hruban RH, Klimstra D and Longnecker D. *Am J Clin Pathol* 1999; 304-307.
- Ten-Year Follow-Up of Ovarian Cancer Patients After Second-Look Laparotomy with Negative Findings. Rubin SC, Randall TC, Armstrong KA, Chi DS, and Hoskins WJ. *Obstet and Gynecol* 1999; 93(1):21-24.
- Differentiating Vulvar Intraepithelial Neoplasia From Nonneoplastic Epithelial Disorders. The Toluidine Blue Test. Joura EA, Zeisler H, Alexander L, Sator MO and Mullauer-Ertl S. *J Reprod Med* 1998; 43:671-674.

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INLAND (Riverside/San Bernardino) - Pancreatic endocrine carcinoma (1); Alpha cell tumor (pancreatic adenoma) (1); Sclerosing carcinoid (1); Glucagonoma (1)
BAKERSFIELD (Central Valley Study Group) - Adrenal cortical adenoma with sclerosis
BAKERSFIELD (San Joaquin Community Hospital) - Islet cell tumor
ORANGE - Glucagonoma
VENTURA (Unilab) - Pancreatic endocrine neoplasm with hyalinized stroma (2)
MONTEREY - Islet cell tumor
BAY AREA - Islet cell tumor – glucagonoma (3)
LONG BEACH - Carcinoid (5)
HAYWARD (St. Rose Hospital) - Pancreatic endocrine neoplasm, alpha cell type
SAN DIEGO (Naval Medical Center) - Glucagonoma (12)
NEVADA (Reno) - Pancreatic islet cell tumor (glucagonoma) (2)
COLORADO (North Colo Medical Ctr) - Pancreatic endocrine tumor (glucagonoma with hyalinized stroma)
TEXAS (Texas Tech Med Hlth Ctr) - Endocrine tumor of pancreas (glucagonoma)
IDAHO (IDX) - Glucagonoma
NEBRASKA (Creighton University) - Glucagonoma
MICHIGAN (Foote Hospital) - Neuroendocrine (islet cell) tumor, glucagonoma
MICHIGAN (St. Mary's Hospital) - Adenocarcinoid tumor
MICHIGAN (St. Joseph Mercy Hospital) - Islet tumor (glucagonoma) (2)
FLORIDA (Tallahassee) - Hyalinized glucagonoma (4)
OHIO (McCullough-Hyde Memorial Hospital) - Pancreatic endocrine neoplasm with hyalinized stroma
KENTUCKY (Woodbine) - Glucagonoma (2)
MARYLAND (National Medical Center) - Islet cell tumor (glucagonoma)
WASHINGTON, D.C. (Walter Reed) - Pancreatic endocrine neoplasm
PENNSYLVANIA (Lehigh Valley Hospital) - Pancreatic endocrine neoplasm (islet cell tumor)—
glucagonoma (1); Glucagonoma (1); Alpha cell type of islet cell tumor (1); Islet cell tumor (1)
PENNSYLVANIA (BB Group) - Alpha islet cell tumor
NEW YORK (Northport) - Glucagonoma
NEW JERSEY (Edison) - Pancreatic endocrine neoplasm; possible glucagonoma
NEW JERSEY (Summit) - Islet cell tumor (4)
MASSACHUSETTS (Berkshire Med Ctr) - Islet cell tumor (glucagonoma)
CONNECTICUT (Univ Conn Hlth Ctr) - Sclerosing variant of islet cell neoplasm (? glucagonoma)
AUSTRALIA (Sydney) - Pancreatic endocrine tumour (glucagonoma)

DIAGNOSIS:

**PANCREATIC ISLET CELL TUMOR (“GLUCAGONOMA”)
T59000,M81520**

REFERENCES:

- Heitz PU, Kasper M, Polak JM, et al. Pancreatic Endocrine Tumors. Immunohistochemical Analysis of 125 Tumors. *Hum Pathol* 1982(3); 13:263-271.
Krusseman CAN, Knijnenburg G, de la Riviere G, et al. Morphology and Immunohistochemically-Defined Endocrine Function of Pancreatic Islet Cell Tumours. *Histopathol* 1978(6); 389-399.
Mukai K, Grotting JC, Greider MH and Rosai J. Retrospective Study of 77 Pancreatic Endocrine Tumors Using the Immunoperoxidase Method. *Am J Surg Pathol* 1982; 6(5):387-399.
Rutman E, Kloppel C, Bommer G, Kiehn M, et al. Pancreatic Glucagonoma With and Without Syndrome. Immunohistochemical Study of 5 Tumour Cases and Review of Literature. *Virchows Arch (Pathol Anat)* 1980; 388(1):51-67.
Matias-Guiu X. RET Protooncogene Analysis in the Diagnosis of Medullary Thyroid Carcinoma and Multiple Endocrine Neoplasia Type II. (New Gene) *Adv Anat Pathol* 1998; 5(3):196-201.

INLAND (Riverside/San Bernardino) - Pancreatic VIPoma (3); Atypical carcinoid tumor (1)
BAKERSFIELD (Central Valley Study Group) - Pancreatic VIPoma
BAKERSFIELD (San Joaquin Community Hospital) - Atypical carcinoid tumor
ORANGE - VIPoma
VENTURA (Unilab) - VIPoma (2)
MONTEREY - VIPoma
BAY AREA - Neuroendocrine carcinoma with VIP syndrome (3)
LONG BEACH - Islet cell tumor (VIPoma) (5)
HAYWARD (St. Rose Hospital) - Pancreatic endocrine neoplasm (VIPoma)
SAN DIEGO (Naval Medical Center) - VIPoma (12)
NEVADA (Reno) - Pancreatic islet cell tumor (VIPoma) (2)
COLORADO (North Colo Medical Ctr) - Malignant pancreatic endocrine tumor (VIPoma)
TEXAS (Texas Tech Med Hlth Ctr) - Islet cell tumor (VIPoma)
IDAHO (IDX) - VIPoma
NEBRASKA (Creighton University) - VIPoma
MICHIGAN (Foote Hospital) - Neuroendocrine (islet cell) tumor
MICHIGAN (St. Mary's Hospital) - Islet cell tumor
MICHIGAN (St. Joseph Mercy Hospital) - Islet cell tumor (VIPoma) (2)
FLORIDA (Tallahassee) - VIPoma, islet cell tumor (4)
OHIO (McCullough-Hyde Memorial Hospital) - Islet cell carcinoma (pancreatic endocrine neoplasm)
KENTUCKY (Woodbine) - VIPoma (2)
MARYLAND (National Medical Center) - Islet cell tumor (VIPoma)
WASHINGTON, D.C. (Walter Reed) - Pancreatic endocrine neoplasm (VIPoma)
PENNSYLVANIA (Lehigh Valley Hospital) - Pancreatic endocrine neoplasm (malignant islet cell tumor)
VIPoma (1); VIPoma (1); VIP producing endocrine tumor of pancreas (1); Islet cell tumor with mitoses.
Focus suggestive of vascular invasion seen; cannot r/o malignancy (1).
PENNSYLVANIA (BB Group) - VIPoma
NEW YORK (Northport) - Malignant (?) VIPoma
NEW JERSEY (Edison) - Pancreatic endocrine neoplasm, VIPoma
NEW JERSEY (Summit) - VIPoma (4)
MASSACHUSETTS (Berkshire Med Ctr) - Islet cell tumor (VIPoma)
CONNECTICUT (Univ Conn Hlth Ctr) - Islet cell neoplasm, favor islet cell carcinoma
AUSTRALIA (Sydney) - Pancreatic endocrine tumor (VIPoma)

DIAGNOSIS:

LOW GRADE PANCREATIC ENDOCRINE NEOPLASM ("VIPOMA")
T59000, M82401

REFERENCES:

Bloom S, Polak JM, Pearse AGE. Vasoactive Intestinal Peptide and Watery Diarrhoea Syndrome. *Lancet* 1973; Jul 7, 1(7819):14-16.
Bloom SR, Polak JM. Glucagonomas, VIPomas and Somatostatinomas. *Clin in Endocrinol Metab* 1980; 9(2):285-297.
Lundquist G, Krause U, Larsson L, Grimelius, et al. A Pancreatic-Polypeptide—Producing Tumor Associated with WDHA Syndrome. *Scandi J Gastroentero* 1978; 13(6):715-718.
Ohigashi H, Isikawa O, Tamura S and Tmaoka S. Pancreatic Invasion as the Prognostic Indicator of Duodenal Adenocarcinoma Treated by Pancreatoduodenectomy Plus Extended Lymphadenectomy. *Surg* 1998; 124(3):510-515.

INLAND (Riverside/San Bernardino) - Thymoma (3); Mixed ? and spindle cell thymoma
BAKERSFIELD (Central Valley Study Group) - Lymphocytic thymoma
BAKERSFIELD (San Joaquin Community Hospital) - Thymoma
ORANGE - Thymoma, epithelial cell predominant
VENTURA (Unilab) - Epithelial thymoma (2)
MONTEREY - Thymoma
BAY AREA - Thymoma (3)
LONG BEACH - Thymoma (5)
HAYWARD (St. Rose Hospital) - Thymoma, mixed cortical and medullary
SAN DIEGO (Naval Medical Center) - Thymoma (12)
NEVADA (Reno) - Thymoma (2)
COLORADO (North Colo Medical Ctr) - Thymoma (consider thymic carcinoid; IPX needed)
TEXAS (Texas Tech Med Hlth Ctr) - Thymoma
IDAHO (IDX) - Thymoma
NEBRASKA (Creighton University) - Thymoma mixed lymphoepithelial type with capsular invasion
MICHIGAN (Foote Hospital) - Mixed medullary and cortical thymoma (Muller-Hermelink)
MICHIGAN (St. Mary's Hospital) - Thymoma
MICHIGAN (St. Joseph Mercy Hospital) - Thymoma, mixed type (2)
FLORIDA (Tallahassee) - Thymoma (4)
OHIO (McCullough-Hyde Memorial Hospital) - Thyroid adenoma
KENTUCKY (Woodbine) - Thymoma with gland formation (2)
MARYLAND (National Medical Center) - Thymoma (mixed & spindle cell) (10); Mixed thymoma and carcinoid (3)
WASHINGTON, D.C. (Walter Reed) - Invasive thymoma
PENNSYLVANIA (Lehigh Valley Hospital) - Thymoma (3); Thymoma vs thymic carcinoid
PENNSYLVANIA (BB Group) - Spindle cell thymoma ? minimal invasive
NEW YORK (Northport) - Lymphoepithelial thymoma, spindle cell type, minimally invasive
NEW JERSEY (Edison) - Neuroendocrine carcinoma/atypical carcinoid)
NEW JERSEY (Summit) - Thymoma (2); Thymic carcinoid (2)
MASSACHUSETTS (Berkshire Med Ctr) - Thymoma (5); vs neuroendocrine carcinoma (1)
CONNECTICUT (Univ Conn Hlth Ctr) - Thymoma, mixed lymphocytic and epithelial ? hyperplasia
AUSTRALIA (Sydney) - Invasive thymoma (low grade malignant)

DIAGNOSIS:

THYMOMA

T98000, M85800

REFERENCES:

- Sellors TH, Thackray AC and Thompson AD. Tumors of the Thymus. A Review of 88 Operation Cases. *Thorax* 1967; 22(3):193-220.
- Rosai J and Levine GD. Tumors of the Thymus. *Atlas of Tumor Pathology*. 2nd Series, Fascicle 13, Washington D.C., Gripp S, Hilgers K, Reinhard W, Schmitt G. Thymoma. Prognostic Factors and Treatment Outcomes. *Cancer* 1998; 83(8):1495-1503.
- Suster S, et al. Primary Thymic Epithelial Neoplasms Showing Combined Features of Thymoma and Thymic Carcinoma. A Clinicopathologic Study of 22 Cases. *Am J Surg Pathol* 1996; 20(12):1469-1480.
- Kuo TT. Thymoma. A Study of the Pathologic Classification of 71 Cases with Evaluation of the Muller-Hermerlink System. *Hum Pathol* 1993; 24(7):766-771.

INLAND (Riverside/San Bernardino) - Virilizing adrenal cortical adenoma (2); Cortical adenoma, adrenal (2)

BAKERSFIELD (Central Valley Study Group) - Adrenal cortical adenoma

BAKERSFIELD (San Joaquin Community Hospital) - Adrenal cortical tumor, favor benign

ORANGE - Adrenal cortical adenoma

VENTURA (Unilab) - Adrenal cortical adenoma (2)

MONTEREY - Adrenal hyperplasia

BAY AREA - Adrenocortical tumor, fractional, with virilizing syndrome (3)

LONG BEACH - Adrenal cortical hyperplasia (5)

HAYWARD (St. Rose Hospital) - Adrenal cortical adenoma (virilizing)

SAN DIEGO (Naval Medical Center) - Adrenocortical carcinoma (3); Adenoma (6); Adrenocortical virilizing neoplasm (1)

NEVADA (Reno) - Adrenal cortical carcinoma (2)

COLORADO (North Colo Medical Ctr) - Virilizing adrenal neoplasm, probably adenoma

TEXAS (Texas Tech Med Hlth Ctr) - Cortical adenoma (adenomatous cortical hyperplasia)

IDAHO (IDX) - Adrenal cortical adenoma

NEBRASKA (Creighton University) - Virilizing adrenal cortical adenoma

MICHIGAN (Foote Hospital) - Adrenal cortical adenoma

MICHIGAN (St. Mary's Hospital) - Adrenal cortical adenoma

MICHIGAN (St. Joseph Mercy Hospital) - Adrenal cortical neoplasm (2)

FLORIDA (Tallahassee) - Adrenal cortical adenoma (4)

OHIO (McCullough-Hyde Memorial Hospital) - Adrenogenital syndrome and cortical adenoma

KENTUCKY (Woodbine) - Adrenal cortical neoplasm with virilization (2)

MARYLAND (National Medical Center) - Adrenal adenoma

WASHINGTON, D.C. (Walter Reed) - Adrenal neoplasm suspicious for adrenal carcinoma

PENNSYLVANIA (Lehigh Valley Hospital) - Adrenal cortical neoplasm (adenoma) – virilizing (1); Adrenal cortical adenoma (1); Nodular cortical hyperplasia (1); Adrenal cortical tumor—favor adenoma. No significant mitotic activity, no necrosis, no broad fibrous bands. Capsule not well seen in section (1)

PENNSYLVANIA (BB Group) - Adrenocortical adenoma with virilization

NEW YORK (Northport) - Adrenal cortical adenoma

NEW JERSEY (Edison) - Adrenocortical adenoma with adrenogenital syndrome

NEW JERSEY (Summit) - Virilizing adrenal cortical adenoma (2); Cortical adenoma (2)

MASSACHUSETTS (Berkshire Med Ctr) - Adrenal cortical adenoma

CONNECTICUT (Univ Conn Hlth Ctr) - Adrenal cortical virilizing neoplasm consistent with adenoma

AUSTRALIA (Sydney) - Adrenal cortic tumour

DIAGNOSIS:

ADRENAL CORTICAL ADENOMA (VIRILIZING)

T93000, M83700

REFERENCES:

- Werk EE Jr., Shaliton LJ and Kalejs L. Testosterone Secreting Adrenal Adenoma Under Gonadotropin Control. *N Eng J Med* 1973; 289(15):767-770.
- Busam KJ, Iversen K, Coplan KA, Old LJ, et al. Immunoreactivity for A103, an Antibody to Melan-A (Mart-1), in Adrenocortical and Other Steroid Tumors. *Am J Surg Pathol* 1998; 22(1):57-63.
- Shimshi M, Ross F, Goodman A, et al. Virilizing Adrenocortical Tumor Superimposed on Adrenocortical Hyperplasia. *Am J Med* 1992; 93:338-342.
- Del Gaudio A, Del Gandio G-A. Virilizing Adrenocortical Tumors in Adult Women. Report of 10 Patients, 2 of Whom Each Had a Tumor Secreting Only Testosterone. *Cancer* 1993(3); 72(6): 1997-2003.

INLAND (Riverside/San Bernardino) - Pheochromocytoma (4)
BAKERSFIELD (Central Valley Study Group) - Adrenal cortical carcinoma
BAKERSFIELD (San Joaquin Community Hospital) - Pheochromocytoma
ORANGE - Pheochromocytoma
VENTURA (Unilab) - Pheochromocytoma (2)
MONTEREY - Adrenal cortical carcinoma
BAY AREA - Paraganglioma/pheochromocytoma (3)
LONG BEACH - Paraganglioma (3); Pheochromocytoma (2)
HAYWARD (St. Rose Hospital) - Pheochromocytoma
SAN DIEGO (Naval Medical Center) - Pheochromocytoma (12)
NEVADA (Reno) - Pheochromocytoma (2)
COLORADO (North Colo Medical Ctr) - Pheochromocytoma
TEXAS (Texas Tech Med Hlth Ctr) - Pheochromocytoma
IDAHO (IDX) - Pheochromocytoma/paraganglioma ?
NEBRASKA (Creighton University) - Pheochromocytoma
MICHIGAN (Foote Hospital) - Atypical carcinoid
MICHIGAN (St. Mary's Hospital) - Adrenal cortical carcinoma
MICHIGAN (St. Joseph Mercy Hospital) - Pheochromocytoma (2)
FLORIDA (Tallahassee) - Pheochromocytoma (3); Paraganglioma (1)
OHIO (McCullough-Hyde Memorial Hospital) - Pheochromocytoma
KENTUCKY (Woodbine) - Pheochromocytoma (2)
MARYLAND (National Medical Center) - Pheochromocytoma
WASHINGTON, D.C. (Walter Reed) - Pheochromocytoma
PENNSYLVANIA (Lehigh Valley Hospital) - Pheochromocytoma (4)
PENNSYLVANIA (BB Group) - Paraganglioma (2); Pheochromocytoma (2)
NEW YORK (Northport) - Adrenal cortical carcinoma
NEW JERSEY (Edison) - Adrenocortical carcinoma
NEW JERSEY (Summit) - Non-functioning pheochromocytoma (3); Adrenal cortical carcinoma (1)
MASSACHUSETTS (Berkshire Med Ctr) - Mixed pheochromocytoma/Ganglioneuroma (5) vs pheochromocytoma (1)
CONNECTICUT (Univ Conn Hlth Ctr) - Pheochromocytoma
AUSTRALIA (Sydney) - Pheochromocytoma

DIAGNOSIS:

PHEOCHROMOCYTOMA

T93000, M87000

REFERENCES:

- Krane NK. Clinically Unsuspected Pheochromocytomas. Experience at Henry Ford Hospital and a Review of the Literature. *Arch Intern Med* 1989; 146:54-57.
- St. John SMG and Sheps SG. Prevalence of Clinically Unsuspected Pheochromocytoma. Review of a 50-Year Autopsy Series. *Mayo Clin Proc* 1981; 56:354-360.
- Medeiros LJ, Wolf BC, Balogh K and Federman M. Adrenal Pheochromocytoma. A Clinicopathologic Review of 60 Cases. *Hum Pathol* 1985; 16:580-589.
- Ramsay JA, Asa SL, van Nostrand AW, et al. Lipid Degeneration in Pheochromocytomas Mimicking Adrenal Cortical Tumors. *Am J Surg Pathol* 1987; 11:480-486.
- Keiser HR, Doppman JL, Robertson CN, Linehan WM, et al. Diagnosis, Localization and Management of Pheochromocytoma. In: Lack EE, ed. *Pathology of the Adrenal Glands*. New York: Churchill Livingstone 1990; 237-255.

INLAND (Riverside/San Bernardino) - Pheochromocytoma (4)
BAKERSFIELD (Central Valley Study Group) - Adrenal cortical carcinoma
BAKERSFIELD (San Joaquin Community Hospital) - Pheochromocytoma
ORANGE - Pheochromocytoma
VENTURA (Unilab) - Pheochromocytoma (2)
MONTEREY - Pheochromocytoma
BAY AREA - Pheochromocytoma (3)
LONG BEACH - Pheochromocytoma (5)
HAYWARD (St. Rose Hospital) - Pheochromocytoma
SAN DIEGO (Naval Medical Center) - Pheochromocytoma (12)
NEVADA (Reno) - Pheochromocytoma (2)
COLORADO (North Colo Medical Ctr) - Pheochromocytoma
TEXAS (Texas Tech Med Hlth Ctr) - Pheochromocytoma
IDAHO (IDX) - Pheochromocytoma
NEBRASKA (Creighton University) - Pheochromocytoma
MICHIGAN (Foote Hospital) - Pheochromocytoma
MICHIGAN (St. Mary's Hospital) - Pheochromocytoma
MICHIGAN (St. Joseph Mercy Hospital) - Pheochromocytoma (2)
FLORIDA (Tallahassee) - Pheochromocytoma (4)
OHIO (McCullough-Hyde Memorial Hospital) - Pheochromocytoma
KENTUCKY (Woodbine) - Composite pheochromocytoma (2)
MARYLAND (National Medical Center) - Pheochromocytoma
WASHINGTON, D.C. (Walter Reed) - Pheochromocytoma
PENNSYLVANIA (Lehigh Valley Hospital) - Pheochromocytoma (4)
PENNSYLVANIA (BB Group) - Pheochromocytoma
NEW YORK (Northport) - Pheochromocytoma
NEW JERSEY (Edison) - Pheochromocytoma
NEW JERSEY (Summit) - Pheochromocytoma (4)
MASSACHUSETTS (Berkshire Med Ctr) - Pheochromocytoma
CONNECTICUT (Univ Conn Hlth Ctr) - Pheochromocytoma
AUSTRALIA (Sydney) - Pheochromocytoma

DIAGNOSIS:

PHEOCHROMOCYTOMA

T93000, M87000

REFERENCES:

- Correa P and Chen V. Endocrine Gland Cancer. *Cancer* 1995; (1 Suppl) 75:338-352. (Pheochromocytoma Adrenal Medulla pp350-351).
 Greene JP, and Guay AT. New Perspectives in Pheochromocytoma. *Urol Clinic N Am* 1989; 16(3):487-503.
 Shapiro B and Fig LM. Management of Pheochromocytoma. *Endocrinol Metab Clinic N Am* 1989; 18(2): 443-481.
 Sheps S, Jiang ND and Kee GG. Diagnostic Evaluation of Pheochromocytoma. *Endocrinol Metab Clinic N Am* 1988; 17(2):397-414.
 Epelbaum J, et al. Molecular and Pharmacological Characterization of Somatostatin Receptor Subtypes in Adrenal, Extraadrenal, and Malignant Pheochromocytomas. *J Clin Endocrinol Metab* 1995; 80(6):1837-1844.

INLAND (Riverside/San Bernardino) - Medullary thyroid carcinoma (4)
BAKERSFIELD (Central Valley Study Group) - Medullary carcinoma of thyroid
BAKERSFIELD (San Joaquin Community Hospital) - Medullary carcinoma
ORANGE - Medullary carcinoma
VENTURA (Unilab) - Medullary carcinoma of thyroid (2)
MONTEREY - Medullary carcinoma
BAY AREA - Medullary carcinoma of the thyroid (3)
LONG BEACH - Medullary carcinoma (5)
HAYWARD (St. Rose Hospital) - Medullary carcinoma, thyroid
SAN DIEGO (Naval Medical Center) - Medullary thyroid carcinoma (12)
NEVADA (Reno) - Medullary carcinoma of thyroid (2)
COLORADO (North Colo Medical Ctr) - Medullary carcinoma of the thyroid
TEXAS (Texas Tech Med Hlth Ctr) - Medullary carcinoma
IDAHO (IDX) - Medullary carcinoma
NEBRASKA (Creighton University) - Medullary carcinoma of thyroid
MICHIGAN (Foote Hospital) - Medullary carcinoma
MICHIGAN (St. Mary's Hospital) - Thyroid medullary carcinoma
MICHIGAN (St. Joseph Mercy Hospital) - Medullary carcinoma (2)
FLORIDA (Tallahassee) - Medullary carcinoma (4)
OHIO (McCullough-Hyde Memorial Hospital) - Medullary carcinoma
KENTUCKY (Woodbine) - Medullary carcinoma (2)
MARYLAND (National Medical Center) - Medullary carcinoma
WASHINGTON, D.C. (Walter Reed) - Medullary carcinoma
PENNSYLVANIA (Lehigh Valley Hospital) - Medullary carcinoma of thyroid (4)
PENNSYLVANIA (BB Group) - Medullary carcinoma with amyloid
NEW YORK (Northport) - Medullary carcinoma
NEW JERSEY (Edison) - Insular carcinoma
NEW JERSEY (Summit) - Medullary thyroid carcinoma (4)
MASSACHUSETTS (Berkshire Med Ctr) - Medullary carcinoma
CONNECTICUT (Univ Conn Hlth Ctr) - Medullary carcinoma
AUSTRALIA (Sydney) - Medullary carcinoma of thyroid with amyloid stroma

DIAGNOSIS:

MEDULLARY CARCINOMA OF THE THYROID WITH AMYLOID STROMA
T96000, M85103

REFERENCES:

- Albores-Saavedra J, LiVolsi VA and Williams ED. Medullary Carcinoma. *Semin Diagn Pathol* 1985; 2:137-146.
LiVolsi VA and Feind CR. Incidental Medullary Thyroid Carcinoma in Sporadic Hyperparathyroidism. An Expansion of the Concept of C-Cell Hyperplasia. *Am J Clin Pathol* 1979; 71:595-599.
Mendelsohn G, Eggleston JC, Weisburger WR, Gann DS, et al. Calcitonin and Histaminase in C-Cell Hyperplasia and Medullary Thyroid Carcinoma. A Light Microscopic and Immunohistochemical Study. *Am J Pathol* 1978; 92:35-52.
Schmid KW, Fischer-Colbrie R, Hagn C, Jasani B, et al. Chromogranin A and B and Secretogranin II in Medullary Carcinomas of the Thyroid. *Am J Surg Pathol* 1987; 11:551-556.
Sikri KL, Varndell IM, Hamid QA, et al. Medullary Carcinoma of the Thyroid. An Immunocytochemical and Histochemical Study of 25 Cases Using Eight Separate Markers. *Cancer* 1985; 56:2481-2491.

INLAND (Riverside/San Bernardino) - Parathyroid carcinoma (1); Nodular hyperplasia (1); Medullary carcinoma (1); Poorly differentiated “insular” carcinoma (1)
BAKERSFIELD (Central Valley Study Group) - Large cell lymphoma
BAKERSFIELD (San Joaquin Community Hospital) - Neuroendocrine carcinoma
ORANGE - Neuroendocrine carcinoma
VENTURA (Unilab) - Small cell undifferentiated carcinoma (2)
MONTEREY - Small cell carcinoma
BAY AREA - Neuroendocrine carcinoma (3)
LONG BEACH - Neuroendocrine carcinoma (5)
HAYWARD (St. Rose Hospital) - Small cell carcinoma of thyroid
SAN DIEGO (Naval Medical Center) - Medullary thyroid carcinoma (10); Metastatic neuroendocrine carcinoma (2)
NEVADA (Reno) - Atypical carcinoid tumor (1); Malignant carcinoma (1)
COLORADO (North Colo Medical Ctr) - Neuroendocrine carcinoma (calcitonin free medullary carcinoma ?)
TEXAS (Texas Tech Med Hlth Ctr) - Small cell (neuroendocrine) carcinoma with plasmacytoid features
IDAHO (IDX) - Medullary carcinoma
NEBRASKA (Creighton University) - Small cell variant of medullary carcinoma of thyroid
MICHIGAN (Foote Hospital) - Poorly differentiated carcinoma
MICHIGAN (St. Mary’s Hospital) - Anaplastic carcinoma
MICHIGAN (St. Joseph Mercy Hospital) - Medullary carcinoma (2)
FLORIDA (Tallahassee) - Undifferentiated small cell carcinoma (4)
OHIO (McCullough-Hyde Memorial Hospital) - Anaplastic carcinoma
KENTUCKY (Woodbine) - Medullary carcinoma (2)
MARYLAND (National Medical Center) - Poorly differentiated carcinoma (insular) (11); Poorly differentiated medullary carcinoma (2)
WASHINGTON, D.C. (Walter Reed) - Carcinoma, favor metastatic neuroendocrine carcinoma
PENNSYLVANIA (Lehigh Valley Hospital) - Medullary carcinoma of thyroid (1); Small cell carcinoma (2); Neuroendocrine carcinoma – atypical carcinoid (favor) vs. small cell (1)
PENNSYLVANIA (BB Group) - Poorly differentiated insular carcinoma
NEW YORK (Northport) - Undifferentiated thyroid carcinoma and Hashimoto’s thyroiditis
NEW JERSEY (Edison) - Neuroendocrine carcinoma
NEW JERSEY (Summit) - Neuroendocrine carcinoma of thyroid (3); Medullary carcinoma (1)
MASSACHUSETTS (Berkshire Med Ctr) - Neuroendocrine carcinoma
CONNECTICUT (Univ Conn Hlth Ctr) - Poorly differentiated neuroendocrine carcinoma consistent with ? medullary carcinoma
AUSTRALIA (Sydney) - Malignant carcinoid tumor (6); Plasmacytoma (2)

DIAGNOSIS:

ANAPLASTIC THYROID CARCINOMA WITH NEUROENDOCRINE FEATURES
 T96000, M85103

CONSULTATIONS: Queen Elizabeth Hospital—John K.C. Chan, M.D. “Anaplastic carcinoma (with a small cell and a large cell component).”

REFERENCES:

- Agrawal S, Rao RS, Parikh DM, Parikh HK, Borges AM, et al. Histologic Trends in Thyroid Center 1969-1993. A Clinicopathologic Analysis of the Relative Proportion of Anaplastic Carcinoma of the Thyroid. *J Surg Oncol* 1996; 63(4):251-255.
- Tan RK, Finley RK 3rd, Driscoll D, Bakamjian V, et al. Anaplastic Carcinoma of the Thyroid. A 24-Year Experience. *Head Neck* 1995; 17(1):41-47.
- Moore D, Ohene-Fianko D, Garcia B and Chakrabarti S. Apoptosis in Thyroid Neoplasms. Relationship with p53 and bcl-2 Expression. *Histopathol* 1998; 32(1):35-42.
- Kishino T, Watanabe M, Kimura M and Sugawara I. Anti-Proliferative Effect of Toremifene and Tamoxifen on Estrogen Receptor-Lacking Anaplastic Thyroid Carcinoma Cell Lines. *Biol Pharm Bull* (Japan) 1997; 20(12):1257-1260.

INLAND (Riverside/San Bernardino) - Papillary carcinoma of thyroid (4)
BAKERSFIELD (Central Valley Study Group) - Papillary carcinoma of thyroid
BAKERSFIELD (San Joaquin Community Hospital) - Papillary carcinoma
ORANGE - Papillary carcinoma
VENTURA (Unilab) - Papillary carcinoma of thyroid (2)
MONTEREY - Papillary carcinoma
BAY AREA - Papillary carcinoma (3)
LONG BEACH - Papillary carcinoma (5)
HAYWARD (St. Rose Hospital) - Papillary carcinoma, thyroid
SAN DIEGO (Naval Medical Center) - Papillary carcinoma of thyroid (12)
NEVADA (Reno) - Papillary carcinoma of thyroid (2)
COLORADO (North Colo Medical Ctr) - Papillary carcinoma of thyroid
TEXAS (Texas Tech Med Hlth Ctr) - Papillary carcinoma
IDAHO (IDX) - Papillary carcinoma
NEBRASKA (Creighton University) - Papillary carcinoma with Hurthle cell change
MICHIGAN (Foote Hospital) - Papillary thyroid carcinoma
MICHIGAN (St. Mary's Hospital) - Thyroid papillary carcinoma
MICHIGAN (St. Joseph Mercy Hospital) - Cystic papillary carcinoma (2)
FLORIDA (Tallahassee) - Papillary carcinoma (4)
OHIO (McCullough-Hyde Memorial Hospital) - Papillary carcinoma, thyroid
KENTUCKY (Woodbine) - Papillary carcinoma (2)
MARYLAND (National Medical Center) - Papillary carcinoma
WASHINGTON, D.C. (Walter Reed) - Papillary carcinoma
PENNSYLVANIA (Lehigh Valley Hospital) - Papillary carcinoma of thyroid (4)
PENNSYLVANIA (BB Group) - Papillary carcinoma of thyroid
NEW YORK (Northport) - Papillary carcinoma
NEW JERSEY (Edison) - Papillary carcinoma of the thyroid
NEW JERSEY (Summit) - Papillary thyroid carcinoma (3); Hyalinizing trabecular adenoma (1)
MASSACHUSETTS (Berkshire Med Ctr) - Papillary carcinoma
CONNECTICUT (Univ Conn Hlth Ctr) - Papillary carcinoma with follicular component
AUSTRALIA (Sydney) - Papillary carcinoma of thyroid

DIAGNOSIS:

PAPILLARY CARCINOMA, THYROID

T96100, M80503

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INLAND (Riverside/San Bernardino) - Medullary thyroid carcinoma (4)
BAKERSFIELD (Central Valley Study Group) - Medullary carcinoma of thyroid
BAKERSFIELD (San Joaquin Community Hospital) - Medullary carcinoma
ORANGE - Medullary carcinoma
VENTURA (Unilab) - Medullary carcinoma of thyroid (2)
MONTEREY - Medullary carcinoma
BAY AREA - Medullary carcinoma of the thyroid (3)
LONG BEACH - Medullary carcinoma (5)
HAYWARD (St. Rose Hospital) - Medullary carcinoma, thyroid
SAN DIEGO (Naval Medical Center) - Medullary thyroid carcinoma (12)
NEVADA (Reno) - Medullary carcinoma of thyroid (2)
COLORADO (North Colo Medical Ctr) - Medullary carcinoma of the thyroid
TEXAS (Texas Tech Med Hlth Ctr) - Medullary carcinoma
IDAHO (IDX) - Medullary carcinoma
NEBRASKA (Creighton University) - Medullary carcinoma of thyroid
MICHIGAN (Foote Hospital) - Medullary carcinoma
MICHIGAN (St. Mary's Hospital) - Thyroid medullary carcinoma
MICHIGAN (St. Joseph Mercy Hospital) - Medullary carcinoma (2)
FLORIDA (Tallahassee) - Medullary carcinoma (4)
OHIO (McCullough-Hyde Memorial Hospital) - Medullary carcinoma of thyroid
KENTUCKY (Woodbine) - Medullary carcinoma (2)
MARYLAND (National Medical Center) - Medullary carcinoma
WASHINGTON, D.C. (Walter Reed) - Medullary carcinoma
PENNSYLVANIA (Lehigh Valley Hospital) - Medullary carcinoma of thyroid (4)
PENNSYLVANIA (BB Group) - Medullary carcinoma of thyroid
NEW YORK (Northport) - Medullary carcinoma and Hashimoto's thyroiditis
NEW JERSEY (Edison) - Medullary carcinoma
NEW JERSEY (Summit) - Medullary thyroid carcinoma (4)
MASSACHUSETTS (Berkshire Med Ctr) - Medullary carcinoma
CONNECTICUT (Univ Conn Hlth Ctr) - Medullary carcinoma
AUSTRALIA (Sydney) - Medullary carcinoma of thyroid

DIAGNOSIS:

MEDULLARY CARCINOMA, THYROID

T96200, M85103

CONSULTATION: Diagnostic Pathology Medical Group, Inc. Gwen Mazoujian, M.D. "Medullary Carcinoma with Immunoreactivity for Calcitonin and CEA."

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