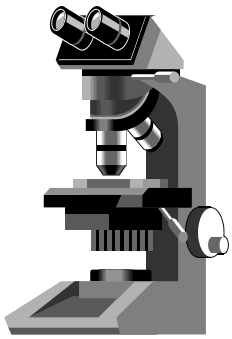
CALIFORNIA
TUMOR TISSUE REGISTRY



GENERAL PATHOLOGY

Minutes – Subscription B

MAY 1999

SUGGESTED READING (General Topics from Recent Literature):

Latent Infection of CD4+T Cells Provides a Mechanism for Lifelong Persistence of HIV-1, Even in Patients on Effective Combination Therapy. Finzi D, Blankson J, Siliciano JD, Margolick JB, et al. *Nature Medicine* 1999; 5(5):512-517.

How Often Are Diagnostic Features Missed with Less Extensive Histologic Sampling of Prostate Needle Biopsy Specimens? Brat DJ, Wills ML, et al. *Am J Surg Pathol* 1999; 23:257-262.

Rising Incidence of Hepatocellular Carcinoma in the United States. El-Serag HB and Mason AC. *N Engl J Med* 1999; 340:745-750.

California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
Loma Linda University School of Medicine
11021 Campus Avenue, AH 335
Loma Linda, California 92350
(909) 558-4788
FAX: (909) 558-0188
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CASE NO. 1, ACCESSION NO. 28346 **MAY 1999**

OAKLAND - Thymoma, spindle cell type (2)
GLENDALE - Thymoma, spindle cell type
SAN DIEGO (Naval Medical Center) - Thymoma, spindle cell type (10)
MICHIGAN (Foote Hospital) - Thymoma (spindle cell, medullary)
FLORIDA (Monroe Regional Medical Center) - Thymoma, spindle cell type
FLORIDA (Winter Haven) - Spindle cell thymoma
KENTUCKY (Univ of Louisville Pathology Residents) - Thymoma
INDIANA (Fort Wayne) - Thymoma – Epithelial (spindled pattern gland-like structures) with mixed lymphocytic pattern
LOUISIANA (River Ridge) - Thymoma
PENNSYLVANIA (Philadelphia) - Carcinoid tumor of thymus
MARYLAND (Sinai Hospital) - Spindle cell thymoma
MARYLAND (National Naval Medical Center) - Minimally invasive thymoma
NEW JERSEY (Edison) - Spindle cell thymoma
NEW YORK (Impath) - Thymoma
MASSACHUSETTS (Longmeadow) - Spindle cell thymoma
MASSACHUSETTS (Medfield) - Thymoma
MAINE - Thymoma
CHINA (Sir Run Run Shaw Hospital) - Thymoma with rosettes and spindle type epithelial cell
JAPAN (Hamamatsu Univ School of Medicine) - Thymoma
JAPAN (Shimada City) - Thymoma, mediastinum
JAPAN (Kurashiki Medical School) - Thymoma, invasive (3)

DIAGNOSIS:

SPINDLE-CELL THYMOMA

TY2300, M85800

REFERENCES:

Levine GD and Bensch KG. Epithelial Nature of Spindle-Cell Thymoma. An Ultrastructural Study. *Cancer* 1972; 30(2):500-511.

Screpanti I, et al. Heterogenity of Thymic Stromal Cells and Thymocyte Differentiation. A Cell Culture Approach. *J Cell Sci* 1993; 105 (Pt3):601-606.

Kuo T-T and Lo S-K. Thymoma. A Study of the Pathologic Classification of 71 Cases with Evaluation of the Muller-Hermelink System. *Hum Pathol* 1993; 24(7):766-771.

Verstandig AG, Epstein DM, Miller WT, Jr., Aronchik JA, et al. Thymoma—Report of 71 Cases and a Review. *Crit Rev Diagn Imagining* 1992; 33(3):201-230.

Jutter FM, Fellbaum C, Popper H, Arian K, et al. Pitfalls in Intraoperative Frozen Section Histology of Mediastinum Neoplasms. *Eur J Cardiothorac Surg* 1990; 4(11):584-586.

CASE NO. 2, ACCESSION NO. 28431 **MAY 1999**

OAKLAND - Adenocarcinoma (2)
GLENDALE - Carcinoma, rule out breast primary
SAN DIEGO (Naval Medical Center) - Poorly differentiated carcinoma (10)
MICHIGAN (Foote Hospital) - Adenocarcinoma
FLORIDA (Monroe Regional Medical Center) - Adenocarcinoma with neuroendocrine features vs. metastatic carcinoma
FLORIDA (Winter Haven) - Adenocarcinoma, rule out metastasis from breast
KENTUCKY (Univ of Louisville Pathology Residents) - Poorly differentiated adenocarcinoma
INDIANA (Fort Wayne) - Anaplastic carcinoma of gallbladder
LOUISIANA (River Ridge) - Poorly differentiated adenocarcinoma
PENNSYLVANIA (Philadelphia) - Poorly differentiated cholangiocarcinoma
MARYLAND (Sinai Hospital) - Poorly differentiated adenocarcinoma, primary vs. metastatic
MARYLAND (National Naval Medical Center) - Poorly differentiated adenocarcinoma (? Primary vs. metastatic)
NEW JERSEY (Edison) - Metastatic malignant melanoma
NEW YORK (Impath) - Invasive poorly differentiated carcinoma, either primary or metastatic (? breast)
MASSACHUSETTS (Longmeadow) - Adenocarcinoma, gallbladder
MASSACHUSETTS (Medfield) - Poorly differentiated adenocarcinoma of gallbladder
MAINE - Invasive poorly differentiated carcinoma
CHINA (Sir Run Run Shaw Hospital) - Poorly differentiated adenocarcinoma
JAPAN (Hamamatsu Univ School of Medicine) - Adenocarcinoma, poorly differentiated, intestinal
JAPAN (Shimada City) - Malignant melanoma, gallbladder
JAPAN (Kurashiki Medical School) - Carcinoma, poorly differentiated (2); Neuroendocrine carcinoma (1)

DIAGNOSIS:

POORLY DIFFERENTIATED ADENOCARCINOMA INVOLVING GALLBLADDER, R/O METASTASIS (BREAST?)

T57000, M81403

REFERENCES:

Crawford DL, Yeh IT and Moore JT. Metastatic Breast Carcinoma Presenting as Cholecystitis. *Am Surg* 1996; 62(9):745-747.

Albores-Saavedra J, Cruz-Ortiz H, Alcantara-Vasquez A, et al. Unusual Types of Gallbladder Carcinoma. A Report of 16 Cases. *Arch Pathol Lab Med* 1981; 105:287-293.

Albores-Saavedra J, Soriano J, Laraza-Hernandez O, et a. Oat Cell Carcinomas of the Gallbladder. *Hum Pathol* 1984; 639-646.

Sparwasser C, Krupienski M, Radomsky J, et al. Gallbladder Metastasis of Renal Cell Carcinoma. A Case Report and Review of the Literature. *Urol Int* 1997; 58(4):257-258.

Albores-Saavedra J, Molberg K and Henson DE. Unusual Malignant Epithelial Tumors of the Gallbladder. *Semin Diagn Pathol* 1996; 13(4):326-338.

Fong Y, Heffernan N. and Blumgart LH. Gallbladder Carcinoma Discovered During Laparoscopic Cholecystectomy. Aggressive Reresection is Beneficial. *Cancer* 1998; 83(3):423-427.

Ohtsuka M, Miyazaki M, Itoh H, Nakagawa K, et al. Routes of Hepatic Metastasis of Gallbladder Carcinoma. *Am J Clin Pathol* 1998; 109(1):62-68.

CASE NO. 3, ACCESSION NO. 28422 **MAY 1999**

OAKLAND - Carcinoid
GLENDALE - Carcinoid
SAN DIEGO (Naval Medical Center) - Carcinoid (9); Atypical carcinoid (1)
MICHIGAN (Foote Hospital) - Carcinoid tumor with osseous metaplasia
FLORIDA (Monroe Regional Medical Center) - Bronchial carcinoid tumor
FLORIDA (Winter Haven) - Carcinoid tumor
KENTUCKY (Univ of Louisville Pathology Residents) - Carcinoid
INDIANA (Fort Wayne) - Carcinoid neoplasm, lung
LOUISIANA (River Ridge) - Central carcinoid tumor
PENNSYLVANIA (Philadelphia) - Neuroendocrine carcinoma (possibly metastatic from pancreas)
MARYLAND (Sinai Hospital) - Carcinoid tumor of lung
MARYLAND (National Naval Medical Center) - Carcinoid tumor
NEW JERSEY (Edison) - Central carcinoid
NEW YORK (Impath) - Bronchial carcinoid tumor
MASSACHUSETTS (Longmeadow) - Carcinoid tumor, bronchus
MASSACHUSETTS (Medfield) - Atypical carcinoid tumor of lung
MAINE - Carcinoid tumor
CHINA (Sir Run Run Shaw Hospital) - Carcinoid tumor
JAPAN (Hamamatsu Univ School of Medicine) - Carcinoid tumor
JAPAN (Shimada City) - Carcinoid tumor, right middle lobe of the lung
JAPAN (Kurashiki Medical School) - Carcinoid tumor, atypical (2); Neuroendocrine carcinoma, well-differentiated (1)

DIAGNOSIS:

CARCINOID TUMOR, LUNG
T28000, M82401

REFERENCES:

Carter D and Eggleston JC. Tumors of the Lower Respiratory Tract. *Atlas of Tumor Pathology*, Second Series, Fascicle 17, Washington, D.C. Armed Forces Institute of Pathology 1980; 173-180.

Gmelch JT, Bensch KG and Liebow AA. Cells of Kultschitzky Type in Bronchioles and Their Relation to the Origin of Peripheral Carcinoid Tumor. *Lab Invest* 1967; 17(1):88-98.

Warren WH and Gould VE. Long-Term Follow-Up of Classical Bronchial Carcinoid Tumors Clinicopathologic Observations. *Scand J Thorac Cardiovasc Surg* 1990; 24(2):125-130.

Travis WD, Rush W, Flieder DB, Falk R, et al. Survival Analysis of 200 Pulmonary Neuroendocrine Tumors with Clarification of Criteria for Atypical Carcinoid and its Separation from Typical Carcinoid. *Am J Surg Pathol* 1998; 22(8):934-944.

Marty-Ane CH, Costes V, Pujol JL, et al. Carcinoid Tumors of the Lung. Do Atypical Features Require Aggressive Management? *Ann Thorac Surg* 1995; 59(1):78-83.

CASE NO. 4, ACCESSION NO. 28440 **MAY 1999**

OAKLAND - Renal cell carcinoma, papillary type (2)
GLENDALE - Renal cell carcinoma, chromophil tumor
SAN DIEGO (Naval Medical Center) - Renal cell carcinoma, chromophil type (11)
MICHIGAN (Foote Hospital) - Carcinoid tumor
FLORIDA (Monroe Regional Medical Center) - Renal cell carcinoma, papillary type
FLORIDA (Winter Haven) - Oncocytoma
KENTUCKY (Univ of Louisville Pathology Residents) - Renal cell carcinoma, nuclear grade III/IV, chromophil type
INDIANA (Fort Wayne) - Chromophil (tubo-papillary) renal cell carcinoma
LOUISIANA (River Ridge) - Renal cell carcinoma
PENNSYLVANIA (Philadelphia) - Juxtaglomerular tumor
MARYLAND (Sinai Hospital) - Carcinoid tumor of kidney
MARYLAND (National Naval Medical Center) - Renal cell carcinoma, papillary type
NEW JERSEY (Edison) - Carcinoid tumor
NEW YORK (Impath) - Papillary (chromophil) carcinoma of kidney
MASSACHUSETTS (Longmeadow) - Renal cell carcinoma, granular cell type
MASSACHUSETTS (Medfield) - Tubulopapillary variant of renal cell carcinoma
MAINE - Renal cell carcinoma
CHINA (Sir Run Run Shaw Hospital) - Renal cell carcinoma, oncocytoma
JAPAN (Hamamatsu Univ School of Medicine) - Atypical carcinoid tumor
JAPAN (Shimada City) - Renal oncocytoma, left kidney
JAPAN (Kurashiki Medical School) - Carcinoid tumor (3)

DIAGNOSIS:

CARCINOID TUMOR, LEFT KIDNEY
T71000, M82401

CONSULTATION: Dr. J. Bruce Beckwith, Loma Linda University Medical Center. "Carcinoid Tumor"

Directors Note: Subsequent to Dr. Beckwith's consultation (06/23/99) the Registry stained the neoplasm for neuroendocrine markers. They were:
Chromogranin — trace positive
Synaptophysin — trace positive

REFERENCES:

Goldblum JR, and Lloyd RV. Primary Renal Carcinoid. Case Report and Literature Review. *Arch Pathol Lab Med* 1993; 117:855-858.
Kojiro M, Ohishi H and Isobe H. Carcinoid Tumor Occurring in a Cystic Teratoma of the Kidney. A Case Report. *Cancer* 1976 38:1636-1640.
Resnick ME, Unterberger H and McLoughlin PT. Renal Carcinoid producing the Carcinoid Syndrome. *Med Times* 1966; 94:895-896.
Unger PD, Russell A, Thung SN and Gordon RE. Primary Renal Carcinoid. *Arch Pathol Lab Med* 1990; 114:68-71.

CASE NO. 5, ACCESSION NO. 28428 **MAY 1999**

OAKLAND - Renal cell carcinoma, clear cell type (2)
GLENDALE - Renal cell carcinoma, chromophobe type
SAN DIEGO (Naval Medical Center) - Renal cell carcinoma, clear cell type (11)
MICHIGAN (Foote Hospital) - Clear cell renal cell carcinoma
FLORIDA (Monroe Regional Medical Center) - Renal cell carcinoma, clear cell type
FLORIDA (Winter Haven) - Clear cell adenocarcinoma
KENTUCKY (Univ of Louisville Pathology Residents) - Renal cell carcinoma, clear cell type, nuclear grade I-II/IV
INDIANA (Fort Wayne) - Clear cell carcinoma of kidney
LOUISIANA (River Ridge) - Renal cell carcinoma
PENNSYLVANIA (Philadelphia) - Renal cell carcinoma (clear cell type)
MARYLAND (Sinai Hospital) - Renal cell (clear cell) carcinoma
MARYLAND (National Naval Medical Center) - Renal cell carcinoma, clear cell type
NEW JERSEY (Edison) - Clear cell renal cell carcinoma
NEW YORK (Impath) - Clear cell renal cell carcinoma
MASSACHUSETTS (Longmeadow) - Renal carcinoma , clear cell type with cystic component
MASSACHUSETTS (Medfield) - Renal cell carcinoma with clear cell and collecting duct features
MAINE - Renal cell carcinoma, clear cell type
CHINA (Sir Run Run Shaw Hospital) - Renal cell carcinoma, clear cell type
JAPAN (Hamamatsu Univ School of Medicine) - Renal cell carcinoma, common type, clear cell subtype
JAPAN (Shimada City) - Renal cell carcinoma, kidney
JAPAN (Kurashiki Medical School) - Clear cell renal cell carcinoma (3)

DIAGNOSIS:

TRADITIONAL RENAL CELL CARCINOMA (CLEAR CELL), GRADE 2-3, KIDNEY
T71000, M83123

CONSULTATION: Dr. J. Bruce Beckwith, Loma Linda University Medical Center. "Traditional Renal Cell Carcinoma (Clear Cell), Grade 2-3."

REFERENCES:

Gelb AB, Sndilovsky D, Wu CD, et al. Appraisal of Intratumoral Microvessel Density, MIB-1 Score, DNA Content, and p53 Protein Expression as Prognostic Indicators in Patients with Locally Confined Renal Cell Carcinoma. *Cancer* 1997; 80(9):1768-1775.
Grignon DJ, Abdel-Malak M, Mertens WC, et al. Glutathions Transferase Expression in Renal Cell Carcinoma. A New Marker of Differentiation. *Mod Pathol* 1994; 7(2):186-189.
MacLennan CT and Boswick DG. Microvessel Density in Renal Cell Carcinoma. Lack of Prognostic Significance. *Urology* 1995; 46(1):27-30.
Delahunt B, Bethwaite PB, Thornton A, et al. Proliferation of Renal Cell Carcinoma Assessed by Fixation-Resistant Ki-67 Antibody Labeling. Correlation with Clinical Outcome. *Cancer* 1995; 75(11):2714-2719.
Bastic DG, Eble JN and Murphy GP. Conference Summary Diagnosis and Prognosis of Renal Cell Carcinoma. *Cancer* 1997; 80(5):975-1001.

CASE NO. 6, ACCESSION NO. 28307 **MAY 1999**

OAKLAND - Fibroma (2)
GLENDALE - Fibrothecoma
SAN DIEGO (Naval Medical Center) - Fibrothecoma (9); Cellular fibroma (1)
MICHIGAN (Foote Hospital) - Fibroma
FLORIDA (Monroe Regional Medical Center) - Leiomyoma
FLORIDA (Winter Haven) - Thecoma
KENTUCKY (Univ of Louisville Pathology Residents) - Cellular fibroma (low malignant potential)
INDIANA (Fort Wayne) - Fibrothecoma, ovary
LOUISIANA (River Ridge) - Thecoma
PENNSYLVANIA (Philadelphia) - Thecoma
MARYLAND (Sinai Hospital) - Fibrothecomatosis of ovary
MARYLAND (National Naval Medical Center) - Cellular fibroma (7); Fibrosarcoma (2)
NEW JERSEY (Edison) - Fibroma of the ovary vs. fibromatosis
NEW YORK (Impath) - Fibroma
MASSACHUSETTS (Longmeadow) - Fibrothecoma, ovary
MASSACHUSETTS (Medfield) - Thecoma/fibroma of ovary
MAINE - Fibroma
CHINA (Sir Run Run Shaw Hospital) - Thecoma
JAPAN (Hamamatsu Univ School of Medicine) - Fibroma
JAPAN (Shimada City) - Fibroma, ovary
JAPAN (Kurashiki Medical School) - Fibrothecoma (2); Cellular fibroma (1)

DIAGNOSIS:

CELLULAR FIBROTHECOMA, OVARY
T87000, M88100

REFERENCES:

Dockerty MB and Masson JC. Ovarian Fibromas. Clinical and Pathologic Study of 233 Cases. *Amer J Obstet Gynec* 1944; 741-752.
Dazois RR, Kempers RD, Dahlin DC and Bartholomew LC. Ovarian Tumors associated with Peutz—Jeghers Syndrome. *Am Surg* 1970; 172(2):233-238.
Sotto LSJ, Postoloff AV and Carr F. A Case of Calcified Fibroma with Ossification. *Am J Obstet Gynecol* 1956; 1355-1358.
Troiano RN, Lazzarini KM, Scoutt LM, et al. Fibroma and Fibrothecoma of the Ovary. MR Imaging Findings. *Radiology* 1997; 204(3):795-798.
Sivanesaratnam V, Dutta R, and Jayalakshmi P. Ovarian Fibroma. Clinical and Histopathological Characteristics. *Int J Gynaecol Obstet* 1990; 33(3):243-247.

CASE NO. 7, ACCESSION NO. 28372 **MAY 1999**

OAKLAND - Metastatic germ cell tumor (yolk sac tumor)

GLENDALE - Yolk sac tumor

SAN DIEGO (Naval Medical Center) - Metastatic nonseminomatous germ cell tumor with yolk sac component (9); Metastatic yolk sac and embryonal carcinoma (2)

MICHIGAN (Foote Hospital) - Metastatic embryonal carcinoma

FLORIDA (Monroe Regional Medical Center) - Metastatic embryonal carcinoma

FLORIDA (Winter Haven) - Metastatic embryonal carcinoma

KENTUCKY (Univ of Louisville Pathology Residents) - Metastatic nonseminomatous type germ cell tumor, with yolk sac and embryonal carcinoma

INDIANA (Fort Wayne) - Mixed germ cell neoplasm, embryonal and yolk sac carcinoma, metastatic to cerebellum (origin in testis)

LOUISIANA (River Ridge) - Metastatic non-seminomatous germ cell tumor (embryonal carcinoma and yolk sac tumor)

PENNSYLVANIA (Philadelphia) - Yolk sac tumor

MARYLAND (Sinai Hospital) - Embryonal carcinoma

MARYLAND (National Naval Medical Center) - Metastatic carcinoma (yolk sac tumor)

NEW JERSEY (Edison) - Yolk sac tumor

NEW YORK (Impath) - Metastatic mixed germ cell tumor

MASSACHUSETTS (Longmeadow) - Metastatic embryonal cell carcinoma cerebellum

MASSACHUSETTS (Medfield) - Metastatic embryonal carcinoma

MAINE - Metastatic germ cell tumor (embryonal carcinoma)

CHINA (Sir Run Run Shaw Hospital) - Metastatic embryonal carcinoma

JAPAN (Hamamatsu Univ School of Medicine) - Embryonal carcinoma

JAPAN (Shimada City) - Embryonal carcinoma, brain

JAPAN (Kurashiki Medical School) - Embryonal carcinoma, metastatic (3)

DIAGNOSIS:

MIXED TESTICULAR GERM CELL TUMOR, EMBRYONAL AND YOLK SAC CARCINOMA, METASTATIC TO CEREBELLUM

Directors Note: Not all slides showed both components

T78000, M90703

REFERENCES:

Ulbright TM, Roth LM and Brodhecker CA. Yolk Sac Differentiation in Germ Cell Tumors. A Morphologic Study of 50 Cases with Emphasis on Hepatic, Enteric, and Parietal Yolk Sac Features. *Am J Surg Pathol* 1986; 10(3):151-164.

Czaja JT and Ulbright TM. Evidence for Transformation of Seminoma to Yolk Sac Tumor with Histogenetic Considerations. *Am J Clin Pathol* 1992; 97(4):468-477.

Bokenmeyer C. Treatment of Testicular Cancer and Development of Secondary Malignancies. *J Clin Oncol* 1995; 13(1):283-292.

Billig H, Furnta I, Rivier C, Tapanainen J, et al. Apotosis in Testic Germ Cells. Developmental Changes in Gonadotropin Dependence and Localization to Selective Tubal Stages. *Endocrinology* 1995; 136(1):5-12.

Fidler IJ. Critical Factors in Biology of Human Cancer Metastasis. *The American Surgeon* 1995; 61(12):1065-1066.

Izumi H, Shiokawa H, Shibata Y, et al. (Pure Yolk Sac Tumor of the Testis with Brain Metastasis. Report of an Adult Case. *Hinyokika Kiyo* 1992; 38(9):1071-1074.

Takano S, Saitoh M, Ohbu M, et al. (Brain Metastasis of Testiclar Yolk Sac Tumor with Massive Hemorrhage. Case Report. *No Shinkei Geka* 1993; 21(6):533-537.

CASE NO. 8, ACCESSION NO. 28399 **MAY 1999**

OAKLAND - Papillary carcinoma (2)
GLENDALE - Papillary carcinoma
SAN DIEGO (Naval Medical Center) - Papillary carcinoma (10)
MICHIGAN (Foote Hospital) - Papillary thyroid carcinoma
FLORIDA (Monroe Regional Medical Center) - Papillary carcinoma, sclerosing variant
FLORIDA (Winter Haven) - Papillary carcinoma
KENTUCKY (Univ of Louisville Pathology Residents) - Papillary carcinoma of the thyroid
INDIANA (Fort Wayne) - Papillary carcinoma, thyroid
LOUISIANA (River Ridge) - Papillary carcinoma, Hashimoto's thyroiditis
PENNSYLVANIA (Philadelphia) - Follicular carcinoma of thyroid with neuroendocrine features
MARYLAND (Sinai Hospital) - Papillary carcinoma of thyroid
MARYLAND (National Naval Medical Center) - Papillary carcinoma
NEW JERSEY (Edison) - Papillary carcinoma of the thyroid
NEW YORK (Impath) - Papillary carcinoma of thyroid gland
MASSACHUSETTS (Longmeadow) - Papillary carcinoma, thyroid
MASSACHUSETTS (Medfield) - Follicular variant of papillary carcinoma
MAINE - Papillary carcinoma, tall cell variant
CHINA (Sir Run Run Shaw Hospital) - Papillary carcinoma of thyroid (diffuse sclerosing variant)
JAPAN (Hamamatsu Univ School of Medicine) - Papillary carcinoma
JAPAN (Shimada City) - Oncocytic carcinoma, thyroid
JAPAN (Kurashiki Medical School) - Papillary carcinoma, with oncocytic features (3)

DIAGNOSIS:

PAPILLARY CARCINOMA OF THYROID WITH SCLEROSIS
T96000, M80503

REFERENCES:

Gilliland FD, Hunt WC, Morris DM and Key CR. Prognostic Factors for Thyroid Carcinoma. A Population Based Study of 15,698 Cases from Surveillance, Epidermilogy and End Results (SEER) Programs 1973-1991. *Cancer* 1997; 79(3):564-573.

Vickery AL. Thyroid Papillary Carcinoma. Pathological and Philosophical Controversies. *Am J Surg Pathol* 1983; 7(8):777-807.

Lloyd RV and Beirwaltes WH. Occult Sclerosing Carcinoma of the Thyroid. Potential for Aggressive Biologic Behavior. *South Med J* 1983; 76(4):437-439.

CASE NO. 9, ACCESSION NO. 28398 **MAY 1999**

OAKLAND - Oligodendroglioma
GLENDALE - High-grade glioma
SAN DIEGO (Naval Medical Center) - Anaplastic oligodendroglioma (10)
MICHIGAN (Foote Hospital) - Oligodendroglioma
FLORIDA (Monroe Regional Medical Center) - Oligodendroglioma
FLORIDA (Winter Haven) - Oligodendroglioma
KENTUCKY (Univ of Louisville Pathology Residents) - Oligodendroglioma
INDIANA (Fort Wayne) - High grade oligodendroglioma (left frontal lobe)
LOUISIANA (River Ridge) - Anaplastic oligodendroglioma
PENNSYLVANIA (Philadelphia) - Central neurocytoma
MARYLAND (Sinai Hospital) - Metastatic malignant tumor—rule out metastasis
MARYLAND (National Naval Medical Center) - Anaplastic oligodendrogioma
NEW JERSEY (Edison) - Anaplastic oligodendroglioma
NEW YORK (Impath) - Oligiodendroglioma
MASSACHUSETTS (Longmeadow) - Oligodendroglioma, brain
MASSACHUSETTS (Medfield) - Oligodendroglioma
MAINE - High grade glioma
CHINA (Sir Run Run Shaw Hospital) - Anaplastic oligodendroglioma
JAPAN (Hamamatsu Univ School of Medicine) - Anaplastic oligoastrocytoma
JAPAN (Shimada City) - Oligodendroglioma, brain
JAPAN (Kurashiki Medical School) - Mixed anaplastic astrocytoma and oligodendroglioma (2); Anaplastic oligodendroglioma (1)

DIAGNOSIS:

OLIGODENDROGLIOMA, GRADE 4, BRAIN
TX2000, M94503

CONSULTATION: B. W. Scheithauer, M.D., Mayo Clinic, Rochester, Minnesota. "Grade 4 oligodendroglioma."

REFERENCES:

Smith MT and Ludwig CL, Godfrey AD, et al. Grading of Oligodendrogliomas. *Cancer* 1983; 52(11):2107-2114.
Ludwig CL, Smith MT, Godfrey AD, et al. A Clinicopathological Study of 323 Patients with Oligodendrogliomas. *Ann Neural* 1986; 19(1):15-21.
Burger PC, Rawlings CE, Cox EB, et al. Clinicopathologic Correlations in Oligodendroglioma. *Cancer* 1987; 59(7):1345-1352.
Coons SW and Pearl DK. Mitosis Identification in Diffuse Gliomas. Implications for Tumor Grading. Cancer 1998; 82(8):1550-1555.
Coons SW, Johnson PC and Pearl DK. The Prognostic Significance of Ki-67 Labeling Indices for Oligodendrogliomas. *Neurosurgery* 1997; 41(4):878-884.
Min KW and Scheithauer BW. Clear Cell Ependymoma. A Mimic of Oligodendroglioma. Clinicopathologic and Ultrastructural Considerations. *Am J Surg Pathol* 1997; 21(7):820-826.
Mason WP, Krol GS and De Angelis LM. Low-Grade Oligodendroglioma Responds to Chemotherapy. *Neurology* 1996; 46(1):203-207.

CASE NO. 10, ACCESSION NO. 28409 **MAY 1999**

OAKLAND - Poorly differentiated adenocarcinoma (2)
GLENDALE - Adenocarcinoma
SAN DIEGO (Naval Medical Center) - Poorly differentiated adenocarcinoma (10)
MICHIGAN (Foote Hospital) - Adenocarcinoma signet ring cell
FLORIDA (Monroe Regional Medical Center) - Adenocarcinoma with rhabdoid features
FLORIDA (Winter Haven) - Adenocarcinoma
KENTUCKY (Univ of Louisville Pathology Residents) - Poorly differentiated adenocarcinoma with signet ring features
INDIANA (Fort Wayne) - Carcinosarcoma, stomach
LOUISIANA (River Ridge) - Poorly differentiated adenocarcinoma
PENNSYLVANIA (Philadelphia) - Rhabdoid tumor
MARYLAND (Sinai Hospital) - Poorly differentiated adenocarcinoma of stomach
MARYLAND (National Naval Medical Center) - Poorly differentiated adenocarcinoma (5); Poorly differentiated adenocarcinoma (hepatoid variant) (4)
NEW JERSEY (Edison) - Epithelioid leiomyosarcoma
NEW YORK (Impath) - Poorly differentiated adenocarcinoma
MASSACHUSETTS (Longmeadow) - Carcinoma
MASSACHUSETTS (Medfield) - Parietal cell carcinoma of stomach
MAINE - Poorly differentiated carcinoma
CHINA (Sir Run Run Shaw Hospital) - Anaplastic carcinoma
JAPAN (Hamamatsu Univ School of Medicine) - Poorly differentiated adenocarcinoma with sarcomatoidal changes
JAPAN (Shimada City) - Rhabdoid carcinoma, stomach
JAPAN (Kurashiki Medical School) - Poorly differentiated carcinoma with rhabdoid features (2); Undifferentiated carcinoma, NOS (1)

DIAGNOSIS:

POORLY DIFFERENTIATED ADENOCARCINOMA OF STOMACH WITH RHABDOID FEATURES

T63000, M81403

REFERENCES:

Ueyama T, Nagi E, Yav T, et al. Vimentin-Positive Gastric Carcinomas with Rhabdoid Features. A Clinicopathologic and Immunohistochemical Study. *Am J Surg Pathol* 1993; 17(8):813-819.
Wick MR, Ritter JH and Dehner LP. Malignant Rhabdoid Tumors. A Clinicopathologic Review and Conceptual Discussion. *Sem Diag Pathol* 1995; 12(3):233-248.
Chetty R and Bhathal PS. Caecal Adenocarcinoma with Rhabdoid Phenotype. An Immunohistochemical and Ultrastructural Analysis. *Virchows Arch Pathol Anat Histopathol* 1993; 422(2):179-182.
Perez-Atayde AR, Newbury R, Fletcher JA, et al. Congenital "Neurovascular Hamartoma" of the Skin. A Possible Marker of Malignant Rhabdoid Tumor. *Am J Surg Pathol* 1994; 18(10):1030-1038.
Chase D. Do "Rhabdoid Features" Impact a Poorer Prognosis to Proximal-Type Epithelioid Sarcomas? (Commentary) *Adv Anat Pathol* 1997; 4(5):293-299.