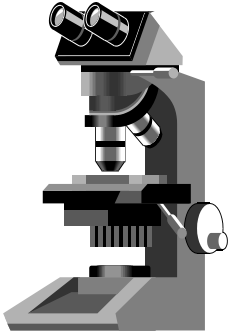


CALIFORNIA
TUMOR TISSUE REGISTRY



GYNECOLOGIC PATHOLOGY

Minutes – Subscription A

September 1998

SUGGESTED READING (General Topics from Recent Literature):

E-Mail, the Internet, and Information Access Technology in Pathology. *Sem in Diag Pathol* 1994; 11(4): 294-304. DiGiorgio CJ, Charles A, Richert, etc.

Interpretation of the Literature. *Clin Obstet and Gyn* 1998; 41(2): 307-314. Dolan MS.

Predicting Clinical Outcome for Uterine Smooth Muscle Neoplasms with a Reasonable Degree of Certainty. *Int J Gynecol Pathol* 1995; 14: 243-249. Longacre TA, Hendrickson MR, and Kempson RL.

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INLAND (Riverside/San Bernardino) - Polycystic ovary (2)
BAKERSFIELD (San Joaquin Comm Hospital) – Polycystic ovary disease (2).
BAKERSFIELD (Central Valley Study Group) - Polycystic ovary.
VENTURA (Unilab) - Polycystic ovarian disease (2).
SANTA ROSA - Polycystic ovaries—Stein-Leventhal Syndrome (3).
SACRAMENTO (UC Davis) - Polycystic ovary with stromal hyperplasia.
LONG BEACH - Polycystic ovaries (6).
BAY AREA - Polycystic ovary (Stein-Leventhal Syndrome) (3).
MICHIGAN (Oakwood Hospital) - Polycystic ovary disease.
MICHIGAN (St. Joseph Mercy Hospital) - Polycystic ovary disease (6).
NEBRASKA (Creighton) - Polycystic ovary.
ILLINOIS - Polycystic ovary; Stromal hyperplasia.
LOUISIANA (Shreveport) - Polycystic ovary with leutinized stroma.
FLORIDA (Tallahassee) - Stromal hyperthecosis (3); Polycystic ovary (Stein-Leventhal) (1).
IDAHO (IDX Pathology) - Polycystic ovary.
KENTUCKY (Louisville) - Stein-Levethal ovary (polycystic ovary) (2).
MARYLAND (Sinai Hospital) - Polycystic ovarian disease.
PENNSYLVANIA (Lehigh Valley Hospital) - Stein-Leventhal Syndrome (1); Sclerocystic Ovaries (1).
NEW JERSEY (Summit) - Stein-Leventhal ovary with stromal hyperplasia and luteinization (3).
NEW YORK (SUNY at Stony Brook Pathol Res) - Stein-Leventhal syndrome.
NEW YORK (Impath) - Polycystic ovary.
NEW YORK (Northport) - Polycystic ovary disease.
NEW JERSEY (St. Barnabas Med Ctr) - Polycystic ovary.
PENNSYLVANIA (BB Group) - Stromal hyperthecosis.
MASSACHUSETTS (NEMC Residents) - Polycystic ovary consistent with stromal hyperthecosis.
AUSTRALIA (Sydney) - Polycystic ovarian syndrome.

DIAGNOSIS:**POLYCYSTIC OVARIAN DISEASE**

T87000, D2601

REFERENCES:

- Coney P. Polycytic Ovarian Disease. Current Concepts of Pathophysiology and Therapy. *Fertil Steril* 1984; 42:667-682.
- Cooper HE, Spellacy WN, Prem KA and Cohen WD. Hereditary Factors in the Stein-Leventhal Syndrome. *Am J Obstet Gynecol* 1968; 100:371-387.
- Hughesdon PE. Morphology and Morphogenesis of the Stein-Leventhal Ovary and So-Called “Hyperthecosis”. *Obstet Gynecol Surv* 1982; 37:59-77.
- Hutchison JR, Taylor HB, Zimmerman EA. The Stein-Leventhal Syndrome and Coincident Ovarian Neoplasms. *Obstet Gynecol* 1966; 28:700-703.
- Dahlgren E, Johansson S, Lindstedt C, et al. Women with Polycystic Ovary Syndrome Wedge Resected in 1956 to 1965. A Long Term Follow-Up Focusing on Natural History and Circulating Hormones. *Fertil Steril* 1992; 505-513.
- Takahashi K, Eda Y, Abu-Musa A, et al. Transvaginal Ultrasound Imaging Histopathology and Endocrinopathy in Patients with Polycystic Syndrome. *Human Reprod* 1994; 9:1231-1236.

INLAND (Riverside/San Bernardino) - Clear cell endometrial carcinoma (1); Undifferentiated clear cell carcinoma (1).

BAKERSFIELD (San Joaquin Comm Hospital) - Clear cell carcinoma of uterus (1); Yolk sac tumor (solid and monocystic pattern (1).

BAKERSFIELD (Central Valley Study Group) - Undifferentiated uterine sarcoma vs. poorly differentiated adenocarcinoma.

VENTURA (Unilab) - Poorly differentiated squamous carcinoma (2).

SANTA ROSA: Malignant stromal tumor, r/o solid embryonal carcinoma (1); Malignant, consistent with stromal sarcoma (1); Sarcomatoid carcinoma (1).

SACRAMENTO (UC Davis) - Clear cell adenocarcinoma, uterus.

LONG BEACH - Undifferentiated carcinoma with clear cell features (6).

BAY AREA - Clear cell carcinoma, endometrium (3).

MICHIGAN (Oakwood Hospital) - Undifferentiated carcinoma.

MICHIGAN (St. Joseph Mercy Hospital) - Clear cell carcinoma (4); Endometrioid carcinoma (1); Malignant mixed mullerian tumor (1).

NEBRASKA (Creighton) - Epithelioid leiomyosarcoma.

ILLINOIS - Epithelioid leiomyosarcoma.

LOUISIANA (Shreveport) - High grade clear cell carcinoma, uterus.

FLORIDA (Tallahassee) - Carcinoma, poorly differentiated, clear cell type (4).

IDAHO (IDX Pathology) - Clear cell carcinoma.

KENTUCKY (Louisville) - Adenocarcinoma, signet ring – rule out metastasis (1); Clear cell leiomyoma (if mucin negative), r/o signet ring carcinoma (1).

MARYLAND (Sinai Hospital) - Myoliposarcoma.

PENNSYLVANIA (Lehigh Valley Hospital) - Adenocarcinoma, clear cell variant (r/o metastatic carcinoma) (1); Poorly differentiated carcinoma (1).

NEW JERSEY (Summit) - Pseudosarcomatous carcinoma (3).

NEW YORK (SUNY at Stony Brook Pathol Res) - Poorly differentiated adenocarcinoma with clear cell features.

NEW YORK (Impath) - Clear cell endometrial adenocarcinoma.

NEW YORK (Northport) - Clear cell carcinoma (1); Carcinosarcoma with liposarcomatous differentiation (1).

NEW JERSEY (St. Barnabas Med Ctr) - Clear cell carcinoma.

PENNSYLVANIA (BB Group) - Adenocarcinoma, clear cell type.

MASSACHUSETTS (NEMC Residents) - Endometrial carcinoma (very unusual presentation).

AUSTRALIA (Sydney) - Clear cell carcinoma.

DIAGNOSIS:

HIGH GRADE PLEOMORPHIC LEIOMYOSARCOMA WITH LIPOSARCOMATOUS DIFFERENTIATION AND KERATIN EXPRESSION, UTERUS
T82000, M88903

CONSULTATION: Mayo Clinic. “Poorly Differentiated Leiomyosarcoma with Liposarcomatous differentiation.”

REFERENCES:

Vakiani M, Mawad J. and Tolerman A. Heterologous Sarcomas of the Uterus. *Int J Gynecol* 1982; 1:211-219.

Lundgren L, Kindblom LG, Seidal T, et al. Intermediate and Fine Cytofilaments in Cutaneous and Subcutaneous Leiomyosarcoma. *APMIS* (Denmark) 1991; 99(9):820-828.

Miettinen M. Keratin Subsets in Spindle Cell Sarcomas. *Am J Pathol* 1991; 138(2):505-513.

Miettinen M. Immunoreactivity for Cytokeratin and Epithelial Membrane Antigen in Leiomyosarcoma. *Arch Pathol Lab Med* 1988; 112(6):637-640.

INLAND (Riverside/San Bernardino) - Carcinoid, ovary (1); Dermoid cyst consistent with carcinoid tumor (1).

BAKERSFIELD (San Joaquin Comm Hospital) - Teratoma with carcinoid component (no thyroid tissue identified even though thyroglobulin is positive) (1); Mature cystic teratoma, with malignant transformation into a carcinoid tumor (1).

BAKERSFIELD (Central Valley Study Group) - Struma ovarii with carcinoid vs. malignant stromal tumor.

VENTURA (Unilab) - Stromal carcinoid (2).

SANTA ROSA - Struma ovarii and carcinoid (1); Cystic teratoma with stromal carcinoid (1); Stromal carcinoid (in ovarian teratoma by gross examination) (1).

SACRAMENTO (UC Davis) - Differentiated germ cell tumor exhibiting carcinoid tumor and thyroid differentiation.

LONG BEACH - Trabecular carcinoid (6).

BAY AREA - Carcinoid and struma ovarii, ovary, ("stromal carcinoid") (3).

MICHIGAN (Oakwood Hospital) - Carcinoid associated with mature cystic teratoma (not on slide).

MICHIGAN (St. Joseph Mercy Hospital) - Stromal carcinoid (6).

NEBRASKA (Creighton) - Stromal carcinoid.

ILLINOIS - Stromal carcinoid.

LOUISIANA (Shreveport) - Tall cell variant of thyroid carcinoma arising in an ovarian teratoma.

FLORIDA (Tallahassee) - Struma ovarii consistent with carcinoid tumor (3); Stromal carcinoid (1).

IDAHO (IDX Pathology) - Trabecular carcinoid tumor.

KENTUCKY (Louisville) - Stromal carcinoid (1); Trabecular carcinoid (stromal carcinoid) (1).

MARYLAND (Sinai Hospital) - Stromal carcinoid.

PENNSYLVANIA (Lehigh Valley Hospital) - Stromal carcinoid associated with a mature cystic teratoma (1). Primary ovarian carcinoid and struma ovarii (1).

NEW JERSEY (Summit) - Stromal carcinoid (3).

NEW YORK (SUNY at Stony Brook Pathol Res) - Stromal carcinoid tumor arising in a teratoma with a struma ovarii.

NEW YORK (Impath) - Ovarian cystic teratoma with stromal carcinoid tumor.

NEW YORK (Northport) - Stromal carcinoid.

NEW JERSEY (St. Barnabas Med Ctr) - Stromal carcinoid.

PENNSYLVANIA (BB Group) - Struma ovarii consistent with malignant carcinoid.

MASSACHUSETTS (NEMC Residents) - Ovarian carcinoid tumor, trabecular type.

AUSTRALIA (Sydney) - Trabecular carcinoid.

DIAGNOSIS:

STRUMAL CARCINOID TUMOR, OVARY
T87000, M90911

REFERENCES:

- Armes JE and Ostor AG. A Case of Malignant Stromal Carcinoid. *Gynecol Oncol* 1993(51):419-423.
- Robbay SJ and Scully RE. Stromal Carcinoid of the Ovary. An Analysis of 50 Cases of a Distinctive Tumor Composed of the Thyroid Tissue and Carcinoid. *Cancer* 1980; 46:2019-2034.
- Stagno PA, Petras RE and Hart WR. Stromal Carcinoids of the Ovary. An Immunohistochemical and Ultra-Structural Study. *Arch Pathol* 1995; 19(1):21-29.
- Stagno PA, Petras RE and Hart WR. Stromal Carcinoids of the Ovary. An Immunohistochemical and Ultra-Structural Study. *Arch Pathol Lab Med* 1987; 111:440-446.
- Robbay SJ and Scully RE. Stromal Carcinoid of the Ovary. An Analysis of 50 Cases of a Distinctive Tumor Composed of thyroid Tissue and Carcinoid. *Cancer* 1980; 46:2019-2034.
- Ashelger RB and Kelly G. Stromal Carcinoid. Report of a Case with Electron Microscopical Observations. *Arch Pathol* 1974; 97:323-25.
- Snyder RR and Tavassoli FA. Ovarian Stromal Carcinoid. Immunohistochemical, Ultrastructural and Clinicopathological Observations. *Int J Gynecol Pathol* 1986; 5:187-201.

INLAND (Riverside/San Bernardino) - Adenomatoid tumor, uterus (2).
BAKERSFIELD (San Joaquin Comm Hospital) - Adenomyoma (1); Metastatic adenocarcinoma to the myometrium (1).
BAKERSFIELD (Central Valley Study Group) - Leiomyoma with cystic degeneration vs. adenomatoid tumor.
VENTURA (Unilab) - Adenomatoid tumor (2).
SANTA ROSA - Adenomatoid mesothelioma (1); ?adenomatoid leiomyoma (1); Adenomatoid tumor (1).
SACRAMENTO (UC Davis) - Adenomatoid tumor, uterus.
LONG BEACH - Adenomatoid tumor (6).
BAY AREA - Adenomatoid tumor, uterus (3).
MICHIGAN (Oakwood Hospital) - Adenomatoid tumor.
MICHIGAN (St. Joseph Mercy Hospital) - Adenomatoid tumor (6).
NEBRASKA (Creighton) - Adenomatoid tumor.
ILLINOIS - Adenomatoid tumor.
LOUISIANA (Shreveport) - Adenomatoid tumor, uterus.
FLORIDA (Tallahassee) - Adenomatoid tumor (4).
IDAHO (IDX Pathology) - Adenomatoid tumor.
KENTUCKY (Louisville) - Adenomatoid tumor (2).
MARYLAND (Sinai Hospital) - Adenomatoid tumor of myometrium.
PENNSYLVANIA (Lehigh Valley Hospital) - Adenomatoid tumor (2).
NEW JERSEY (Summit) - Adenomatoid tumor (3).
NEW YORK (SUNY at Stony Brook Pathol Res) - Adenomatoid mesothelioma.
NEW YORK (Impath) - Adenomatoid tumor of uterus.
NEW YORK (Northport) - Adenomatoid tumor.
NEW JERSEY (St. Barnabas Med Ctr) - Invasive-adenocarcinoma with signet ring features.
PENNSYLVANIA (BB Group) - Adenomatoid tumor.
MASSACHUSETTS (NEMC Residents) - Adenomatoid mesothelioma.
AUSTRALIA (Sydney) - Adenomatoid tumor.

DIAGNOSIS:

ADENOMATOID TUMOR OF UTERUS

T82000, M90540

REFERENCES:

- Otis CN. Uterine Adenomatoid Tumors. Immunohistochemical Characteristics with Emphasis on Ber-EP4 Immunoreactivity and Distinction from Adenocarcinomas. *Int J Gynecol Pathol* 1996; 15(2):146-151.
Ferenczy A, Fenaglio J and Richard RM. Observations on Benign Mesotheliomas of the Genital Tract (Adenomatoid Tumor). A Comparative Ultrastructural Study. *Cancer* 1972; 30:244-260.
Quigley JC and Hart WR. Adenomatoid Tumors of the Uterus. *Am J Clin Pathol* 1981; 76:627-635.
Livingston E, Guis M and Pearl M. Diffuse Adenomatoid Tumor of Uterus with Serosal Papillary Cystic Component. *Int J Gynecol Pathol* 1992; 11:228-292.

INLAND (Riverside/San Bernardino) - Cyst adenofibroma, ovary (1); Atypically proliferating endometrioid adenofibroma (1).

BAKERSFIELD (San Joaquin Comm Hospital) - Adenofibroma (1); Metastatic adenocarcinoma to the ovary (1).

BAKERSFIELD (Central Valley Study Group) - Adenofibroma.

VENTURA (Unilab) - Adenofibroma (2).

SANTA ROSA - Endometrioid carcinoma (1); Malignant, endometrioid carcinoma, r/o Krukenberg (1); Adenocarcinoma, endometrioid type (1).

SACRAMENTO (UC Davis) - Adenofibroma with low malignant potential, clear cell type, ovary.

LONG BEACH - Adenofibroma (6)

BAY AREA - Adenocarcinoma, ovary (3) (endometrioid?, serous?, Brenner?, metastatic?).

MICHIGAN (Oakwood Hospital) - Proliferating endometrioid adenofibroma.

MICHIGAN (St. Joseph Mercy Hospital) - Fibroma with sex cord elements (3); Atypical proliferating endometrioid adenofibroma (2); Adenofibroma (1).

NEBRASKA (Creighton) - Sertoli cell tumor.

ILLINOIS - Serous cystadenofibroma, borderline.

LOUISIANA (Shreveport) - Adenofibroma ovary, malignant.

FLORIDA (Tallahassee) - Sertoli stromal cell tumor (4).

IDAHO (IDX Pathology) - Serous adenofibroma.

KENTUCKY (Louisville) - Metastatic adenocarcinoma (1); Adenocarcinoma, (probable metastasis) (1).

MARYLAND (Sinai Hospital) - Endometrioid adenofibroma of low malignant potential.

PENNSYLVANIA (Lehigh Valley Hospital) - Sex cord tumor (Sertoli-Leydig, intermediate) (2).

NEW JERSEY (Summit) - Borderline malignant serous adenofibroma (3).

NEW YORK (SUNY at Stony Brook Pathol Res) - Cystadenofibroma.

NEW YORK (Impath) - Sertoli cell tumor of ovary.

NEW YORK (Northport) - Proliferative endometrioid adenofibroma.

NEW JERSEY (St. Barnabas Med Ctr) - Clear cell carcinoma of ovary.

PENNSYLVANIA (BB Group) - Adenofibroma.

MASSACHUSETTS (NEMC Residents) - Endometrioid carcinoma vs. metastatic carcinoma.

AUSTRALIA (Sydney) - Adenofibroma.

DIAGNOSIS:

ENDOMETRIOID ADENOFIBROMA OF LOW MALIGNANT POTENTIAL, OVARY
T87000, M90540

REFERENCES:

Roth LM, Czernobilsky B. and Langley FA. Endometrioid Adenofibromatous and Cystadenofibromatous Tumors.

Benign, Proliferating and Malignant. *Cancer*. 1981; 48:1838-1845.

Czernobilsky B. Endometrioid Neoplasia of the Ovary. A Reappraisal. *Int J Gynecol* 1982; 1:202-210.

Bell DA and Scully RE. Atypical and Borderline Endometrioid Adenofibromas of the Ovary. *Am J Surg Pathol* 1985; 9:205-214.

INLAND (Riverside/San Bernardino) - Brenner gland tumor (2).
BAKERSFIELD (San Joaquin Comm Hospital) - Brenner tumor.
BAKERSFIELD (Central Valley Study Group) - Brenner tumor.
VENTURA (Unilab) - Brenner tumor (2).
SANTA ROSA - Brenner tumor (3).
SACRAMENTO (UC Davis) - Brenner tumor, ovary.
LONG BEACH - Brenner tumor (6).
BAY AREA - Brenner tumor, left ovary (3).
MICHIGAN (Oakwood Hospital) - Brenner tumor (transitional cell tumor).
MICHIGAN (St. Joseph Mercy Hospital) - Brenner tumor (6).
NEBRASKA (Creighton) - Benign Brenner tumor.
ILLINOIS - Proliferating Brenner tumor.
LOUISIANA (Shreveport) - Brenner tumor.
FLORIDA (Tallahassee) - Brenner tumor (4).
IDAHO (IDX Pathology) - Brenner tumor.
KENTUCKY (Louisville) - Brenner tumor (2).
MARYLAND (Sinai Hospital) - Brenner tumor.
PENNSYLVANIA (Lehigh Valley Hospital) - Benign Brenner cell tumor (2).
NEW JERSEY (Summit) - Brenner tumor (3).
NEW YORK (SUNY at Stony Brook Pathol Res) - Brenner tumor.
NEW YORK (Impath) - Brenner tumor.
NEW YORK (Northport) - Brenner tumor.
NEW JERSEY (St. Barnabas Med Ctr) - Brenner tumor.
PENNSYLVANIA (BB Group) - Proliferating Brenner tumor, benign.
MASSACHUSETTS (NEMC Residents) - Brenner tumor.
AUSTRALIA (Sydney) - Brenner tumor.

DIAGNOSIS:

BRENNER TUMOR, OVARY
T87000, M90000

REFERENCES:

Ehrlich CE and Roth LM. The Brenner Tumor. A Clinicopathologic Study of 57 Cases. *Cancer* 1971; 27:332-342.
Balasa RW, Adcock LL, Prem KA and Dehner LP. The Brenner Tumor. A Clinicopathologic Review. *Obstet Gynecol* 1977; 50:120-128.
Bransilver BR, Ferenczy A and Richart RM. Brenner Tumors and Walthard Nests. *Arch Pathol* 1974; 98:76-86.
Santini D. and Gelli MC, Mazzoleni G, Ricci M, et al. Brenner Tumor of the Ovary. A Correlative Histologic Histochemical, Immunohistochemical, and Ultra-Structural Investigation. *Hum Pathol* 1989; 20:787-795.
Martin AR, Kotylo PK, Kennedy JC, et al. Flow Cytometric DNA Analysis of Ovarian Brenner Tumors and Transitional Cell Carcinomas. *Int J Gynecol Pathol* 1992; 11:188-196.
Silverberg SG. Brenner Tumor of the Ovary. A Clinicopathologic Study of 60 Tumors in 54 Women. *Cancer* 1971; 28:588-596.

INLAND (Riverside/San Bernardino) - Serous cystadenocarcinoma, ovary (1); Well-differentiated endometrioid carcinoma (1).
BAKERSFIELD (San Joaquin Comm Hospital) - Struma ovarii (1); Struma ovarii with adenomatous changes (1).
BAKERSFIELD (Central Valley Study Group) - Struma ovarii.
VENTURA (Unilab) - Struma ovarii (2).
SANTA ROSA - Struma ovarii (3).
SACRAMENTO (UC Davis) - Struma ovarii showing multinodular changes with adenoma vs adenomatoid nodule.
LONG BEACH - Struma ovarii (6).
BAY AREA - Struma ovarii, left ovary (3).
MICHIGAN (Oakwood Hospital) - Struma ovarii.
MICHIGAN (St. Joseph Mercy Hospital) - Struma ovarii (6).
NEBRASKA (Creighton) - Struma ovarii.
ILLINOIS - Sertoli-Leydig tumor with retiform pattern; Struma ovarii.
LOUISIANA (Shreveport) - Struma ovarii.
FLORIDA (Tallahassee) - Struma ovarii (4).
IDAHO (IDX Pathology) - Struma ovarii.
KENTUCKY (Louisville) - Struma ovarii (2).
MARYLAND (Sinai Hospital) - Struma ovarii.
PENNSYLVANIA (Lehigh Valley Hospital) - Struma ovarii (1); Strumal carcinoid (1).
NEW JERSEY (Summit) - Struma ovarii (3).
NEW YORK (SUNY at Stony Brook Pathol Res) - Ovarian teratoma with struma ovarii.
NEW YORK (Impath) - Strumal carcinoid tumor.
NEW YORK (Northport) - Trabecular carcinoid.
NEW JERSEY (St. Barnabas Med Ctr) - Papillary carcinoma of thyroid arising in struma ovarii.
PENNSYLVANIA (BB Group) - Struma ovarii and benign carcinoid.
MASSACHUSETTS (NEMC Residents) - Clear cell carcinoma.
AUSTRALIA (Sydney) - Struma ovarii.

DIAGNOSIS:

STRUMA OVARIUM
T87000, M90900

Director's Note: Most of the tumor slides contained colloid-filled follicles. A few slides lacked the colloid, and mimicked a carcinoid tumor. A chromogranin stain was negative, and a thyroglobulin stain was positive.

REFERENCES:

Talerman A. A Distinctive Gonadal Neoplasm Related to Gonadoblastoma. *Cancer* 1972, 36:1219-1224.
Szyfelbern WM, Young RH and Scully RE. Cystic Struma Ovarii. A Frequently Recognized Tumor. A Report of 20 Cases. *Am J Surg Pathol* 1994; 18(8):785-788.
Szyfelbern Wm and Young RH. Struma Ovarii Simulating Tumor of Other Types. *Am J Surg Pathol* 1995; 19(1):21-29.

INLAND (Riverside/San Bernardino) - Gonadoblastoma (2).
BAKERSFIELD (San Joaquin Comm Hospital) - Gonadoblastoma (1); Dysgerminoma (1).
BAKERSFIELD (Central Valley Study Group) - Gonadoblastoma.
VENTURA (Unilab) - Gonadoblastoma (2).
SANTA ROSA - Dysgerminoma with gonadoblastoma (3).
SACRAMENTO (UC Davis) - Gonadoblastoma.
LONG BEACH - Gonadoblastoma (with dysgerminoma) (6).
BAY AREA - Gonadoblastoma with ? dysgerminomatous elements (3).
MICHIGAN (Oakwood Hospital) - Gonadoblastoma with dysgerminoma overgrowth.
MICHIGAN (St. Joseph Mercy Hospital) - Gonadoblastoma (6).
NEBRASKA (Creighton) - Gonadoblastoma.
ILLINOIS - Gonadoblastoma.
LOUISIANA (Shreveport) - Dysgerminoma with granulomatous changes and associated gonadoblastoma.
FLORIDA (Tallahassee) - Gonadoblastoma (4).
IDAHO (IDX Pathology) - Gonadoblastoma.
KENTUCKY (Louisville) - Gonadoblastoma.(1); Gonadoblastoma with dysgerminoma (1).
MARYLAND (Sinai Hospital) - Gonadoblastoma.
PENNSYLVANIA (Lehigh Valley Hospital) - Gonadoblastoma (2).
NEW JERSEY (Summit) - Gonadoblastoma (3).
NEW YORK (SUNY at Stony Brook Pathol Res) - Gonadoblastoma.
NEW YORK (Impath) - Gonadoblastoma.
NEW YORK (Northport) - Gonadoblastoma.
NEW JERSEY (St. Barnabas Med Ctr) - Dysgerminoma.
PENNSYLVANIA (BB Group) - Gonadoblastoma.
MASSACHUSETTS (NEMC Residents) - Gonadoblastoma and dysgerminoma.
AUSTRALIA (Sydney) - Gonadoblastoma with early dysgerminoma.

DIAGNOSIS:

GONADOBLASTOMA, BILATERAL OVARIES

T87000, M90731

REFERENCES:

- Scully RE. Gonadoblastoma. A Review of 74 Cases. *Cancer* 1970; 25:1340-1356.
Scully RE. Gonadoblastoma. A Gonadal Tumor Related to Dysgerminoma (Seminoma) Capable of Sex Hormone Production. *Cancer* 1953; 6:455-463.
Pinkerton JHM, McKay DG, Adams EC and Herteg AT. Development of the Human Ovary. A Study Using Histochemical Technics. *Obstet Gynecol* 1961; 18:152-181.
Gruenwald P. The Development of the Sex Cord In the Gonad of Man and Mammals *Am J Anat* 1942; 70:359-389.
Arroyo JG, Harris W. and Laden A. Recurrent Mixed Germ Cell Sex Cord-Stromal Tumor of the Ovary in an Adult. *Int J Gynecol Pathol* 1998; 17:281-283.
Tavassoli FA. A Combination Germ Cell Gonadal Stromal Epithelial Tumor of the Ovary. *Am J Surg Pathol* 1983, 7:73-84.

INLAND (Riverside/San Bernardino) - Embryonal rhabdomyosarcoma (1); Clear cell carcinoma (1).
BAKERSFIELD (San Joaquin Comm Hospital) - Endometrial stromal sarcoma (1); Alveolar rhabdomyosarcoma (1).
BAKERSFIELD (Central Valley Study Group) - Endometrial stromal sarcoma.
VENTURA (Unilab) - Undifferentiated uterine sarcoma (2).
SANTA ROSA - Rhabdomyosarcoma (2); Epithelioid leiomyosarcoma (1).
SACRAMENTO (UC Davis) - Desmoplastic small round cell tumor, uterus.
LONG BEACH - Embryonal rhabdomyosarcoma (6).
BAY AREA - Epithelioid leiomyosarcoma, uterus (? Mixed endometrial stromal component) (3).
MICHIGAN (Oakwood Hospital) - Alveolar rhabdomyosarcoma.
MICHIGAN (St. Joseph Mercy Hospital) - Alveolar rhabdomyosarcoma (6).
NEBRASKA (Creighton) - High grade stromal sarcoma.
ILLINOIS - Mixed mullerian tumor with predominant rhabdomyosarcoma, clear variant.
LOUISIANA (Shreveport) - Rhabdomyosarcoma, uterus.
FLORIDA (Tallahassee) - Rhabdomyosarcoma (3), High grade stromal sarcoma (1).
IDAHO (IDX Pathology) - Sarcoma consistent with leiomyosarcoma.
KENTUCKY (Louisville) - Stromal sarcoma (1); High grade stromal sarcoma (1).
MARYLAND (Sinai Hospital) - Small cell desmoplastic tumor.
PENNSYLVANIA (Lehigh Valley Hospital) - Alveolar rhabdomyosarcoma (1); High grade endometrial stromal sarcoma (1).
NEW JERSEY (Summit) - Rhabdomyosarcoma, alveolar type (3).
NEW YORK (SUNY at Stony Brook Pathol Res) - Endometrial stroma sarcoma.
NEW YORK (Impath) - Alveolar rhabdomyosarcoma.
NEW YORK (Northport) - Rhabdomyosarcoma.
NEW JERSEY (St. Barnabas Med Ctr) - Alveolar rhabdomyosarcoma.
PENNSYLVANIA (BB Group) - Epithelioid leiomyoblastoma.
MASSACHUSETTS (NEMC Residents) - Endometrial stroma sarcoma.
AUSTRALIA (Sydney) - Alveolar rhabdomyosarcoma.

DIAGNOSIS:

ALVEOLAR RHABDOMYOSARCOMA, UTERUS
T82000, M89203

FOLLOW-UP: The patient was started on an aggressive regimen of chemotherapy.

REFERENCES:

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- Shakfeh SM and Woodruff JD. Primary Ovarian Sarcoma. A Report of 46 Cases and Review of the Literature. *Obstet Gynecol Surv* 1987; 42:331-349.
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INLAND (Riverside/San Bernardino) - Undifferentiated adenocarcinoma (1); Poorly differentiated endometrioid carcinoma (1).
BAKERSFIELD (San Joaquin Comm Hospital) - Embryonal carcinoma (1); Undifferentiated carcinoma (1).
BAKERSFIELD (Central Valley Study Group) - Dysgerminoma vs. poorly differentiated adenocarcinoma.
VENTURA (Unilab) - Poorly differentiated serous adenocarcinoma. (2).
SANTA ROSA - Malignant NOS, r/o metastatic carcinosarcoma (1); Malignant, poorly differentiated carcinoma, r/o Krukenberg (1); Poorly differentiated carcinoma (1).
SACRAMENTO (UC Davis) - Carcinosarcoma, ovary.
LONG BEACH - Metaplastic carcinoma (6).
BAY AREA - Malignant mixed mullerian tumor, left ovary (3).
MICHIGAN (Oakwood Hospital) - Carcinosarcoma (high grade mixed mesodermal tumor).
MICHIGAN (St. Joseph Mercy Hospital) - Malignant mixed mullerian tumor.
NEBRASKA (Creighton) - Extrauterine mixed malignant mullerian tumor.
ILLINOIS - Mixed mullerian tumor.
LOUISIANA (Shreveport) - Adenocarcinoma, ovary.
FLORIDA (Tallahassee) - Malignant mixed mullerian tumor (4).
IDAHO (IDX Pathology) - Malignant mixed mullerian tumor.
KENTUCKY (Louisville) - Clear cell carcinoma (1); Poorly differentiated carcinoma, rule out pheochromocytoma (1).
MARYLAND (Sinai Hospital) - Poorly differentiated carcinoma, NOS.
PENNSYLVANIA (Lehigh Valley Hospital) - Endometrioid adenocarcinoma (1); Clear cell carcinoma (1).
NEW JERSEY (Summit) - Undifferentiated carcinoma consistent with pseudosarcomatous features (3).
NEW YORK (SUNY at Stony Brook Pathol Res) - Poorly differentiated metastatic adenocarcinoma.
NEW YORK (Impath) - Poorly differentiated adenocarcinoma of ovary.
NEW YORK (Northport) - Carcinosarcoma with heterologous (chondroid) elements.
NEW JERSEY (St. Barnabas Med Ctr) - Poorly differentiated adenocarcinoma.
PENNSYLVANIA (BB Group) - Embryonal carcinoma consistent with negative markers.
MASSACHUSETTS (NEMC Residents) - Papillary carcinoma ? fallopian tube origin.
AUSTRALIA (Sydney) - Carcinosarcoma.

DIAGNOSIS:

CARCINOSARCOMA, OVARY
 T87000, M89803

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