CALIFORNIA TUMOR TISSUE REGISTRY

"GYNECOLOGIC PATHOLOGY"
Study Cases, Subscription A
September 1998

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
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Target audience:
Practicing pathologists and pathology residents.

Goal:
To acquaint the participant with the histologic features of a variety of benign and malignant neoplasms and tumor-like conditions.

Objective:
The participant will be able to recognize morphologic features of a variety of benign and malignant neoplasms and tumor-like conditions and relate those processes to pertinent references in the medical literature.

Educational methods and media:
Review of representative glass slides with associated histories.
Feedback on consensus diagnoses from participating pathologists.
Listing of selected references from the medical literature.

Principal faculty:
Weldon K. Bullock, MD
Donald R. Chase, MD

CME Credit:
The CTTR designates this activity for up to 2 hours of continuing medical education. Participants must return their diagnoses to the CTTR as documentation of participation in this activity.

Accreditation:
The California Tumor Tissue Registry is accredited by the California Medical Association as a provider of continuing medical education.
CONTRIBUTOR: J. R. Craig, M.D.  
Pasadena, CA

CASE NO. 1 - SEPTEMBER 1998

TISSUE FROM: Right and Left Ovaries

ACCESSION #22287

CLINICAL ABSTRACT:
This 26-year-old, G0 P0, Caucasian female had a long history of endocrine problems, which included irregular and infrequent menses. She was obese and complained of hirsutism. Cervical and rectal exam proved negative. An exploratory laparotomy with bilateral ovarian wedge resection was performed.

GROSS PATHOLOGY:
The 23 gram wedge resection of cystic right ovary was 9.0 x 3.0 x 2.0 cm. It had multiple serous cysts up to 5 mm in diameter that occupied approximately 25% of the total mass. The 20 gram left ovarian wedge was 7.5 x 2.0 x 2.3 cm and similar in appearance to the right ovary.

CONTRIBUTOR: Mark Janssen, M.D.  
Anaheim, CA

CASE NO. 2 - SEPTEMBER 1998

TISSUE FROM: Uterus

ACCESSION #28322

CLINICAL ABSTRACT:
This 57-year-old Caucasian female presented with a two-month history of vaginal bleeding, which led to a D&C and then a hysterectomy.

GROSS PATHOLOGY:
The 366 gram uterus was 11.5 cm in length, 6.0 cm from cornu to cornu and 5.0 cm in the anteroposterior diameter. On the posterior aspect of the endometrial cavity was a 9.0 cm diameter ulcerated, partially necrotic mass.

SPECIAL STUDIES:
Keratin strongly positive
CONTRIBUTOR: Peter L. Morris, M.D.
Santa Barbara, CA

TISSUE FROM: Ovary

ACCESSION #28274

CLINICAL ABSTRACT:
This 47-year-old, para 5, female had a one year history of prolonged menstrual periods associated with malaise, hot flashes, nervousness, insomnia, weight loss, irritability, headaches, and anorexia. Cyclic hormones relieved most of her symptoms, but irregular menses continued. Pap smears were abnormal and continued to be after cryotherapy for biopsy proven cervical dysplasia. A vaginal hysterectomy and salpingo-oophorectomy were performed.

GROSS PATHOLOGY:
The bilateral ovaries weighed 33 grams. One of the ovaries was enlarged to 4.2 x 3.0 x 2.5 cm. It was somewhat nodular and had a 1.0 cm smooth-lined cyst and a 1.2 x 1.5 cm multiloculated cystic lesion. Within the larger cyst was a mixture of greasy yellow material and hair.

SPECIAL STUDIES:
Chromogranin  positive
Thyroglobulin  positive

CONTRIBUTOR: Peter L. Morris, M.D.
Santa Barbara, CA

TISSUE FROM: Uterus

ACCESSION #28194

CLINICAL ABSTRACT:
This 50-year-old female presented with a three year history of uterine leiomyomata and menorrhagia. Uterine size by palpation was around 14 weeks and in mid-position. Adnexa were not palpable. A total abdominal hysterectomy was performed.

GROSS PATHOLOGY:
The enlarged uterus measured 14.0 x 11.0 x 8.0 cm and weighed 645 grams. The endometrial cavity was distorted by multiple myometrial nodules which ranged from 1.2 to 5.5 cm.

SPECIAL STUDIES:
Keratin  strongly positive in lesional cells
CONTRIBUTOR: Cynthia L. Douglas, M.D.  
San Luis Obispo, CA  
CASE NO. 5 - SEPTEMBER 1998  
TISSUE FROM: Ovary  
ACCESSION #27640  

CLINICAL ABSTRACT:  
This 84-year-old Caucasian female presented with shortness of breath and diaphoresis. She was found to have a urinary tract infection. Physical examination revealed a 20 cm non-mobile lower abdominal mass.

GROSS PATHOLOGY:  
Specimen consisted of a uterus with attached tube and ovary. The ovary was replaced by a 2425 gram tumor which measured 21.0 x 12.0 x 17.0 cm. The parenchyma was solid fibrous, yellow-gray with a central 4.2 cm cyst.

CONTRIBUTOR: Howard Otto, M.D.  
Cheboygan, MI  
CASE NO. 6 - SEPTEMBER 1998  
TISSUE FROM: Left ovary  
ACCESSION #28203  

CLINICAL ABSTRACT:  
This 54-year-old female presented with generalized abdominal pain and accompanying nausea. Examination revealed exquisite McBurney's tenderness, particularly to deep palpation. CT scan revealed two masses near the uterus which were cystic in quality. An appendectomy and bilateral oophorectomy were performed.

GROSS PATHOLOGY:  
The appendix showed acute appendicitis. The left ovary weighed 25 grams and consisted of a 4.0 x 3.5 x 3.0 cm nodule with a smooth glistening surface. Cut surface was solid, soft and gray with some yellow mottling. A small rim of gray tissue in the cortex suggested residual ovarian parenchyma. The tumor extended toward and into the capsule but not through the capsule.
CONTRIBUTOR: Howard Otto, M.D.  
Cheboygan, MI  
CASE NO. 7 - SEPTEMBER 1998

TISSUE FROM: Left ovary  
ACCESSION #28201

CLINICAL ABSTRACT:
This 58-year-old female was found to have a left adnexal mass on routine examination. Ultrasound revealed a 4.0 cm solid mass of the left adnexa. A total abdominal hysterectomy with bilateral salpingo-oophorectomy was performed.

GROSS PATHOLOGY:  
The left ovary was replaced by a 50 gram, 6.0 x 5.0 x 4.0 cm multinodular cystic mass. Sectioning revealed a mottled tan multinodular surface that bulged above the cut surface of the ovary.

CONTRIBUTOR: Arno Roscher, M.D.  
Valencia, CA  
CASE NO. 8 - SEPTEMBER 1998

TISSUE FROM: Both ovaries  
ACCESSION #28214

CLINICAL ABSTRACT:
This 17-year-old female presented with amenorrhea. Gene studies showed a karyotype compatible with gonadal dysgenesis. It was recommended that both ovaries be removed due to a high incidence of cancer. A bilateral oophorectomy was preformed.

GROSS PATHOLOGY:  
The right ovary was submitted as two pieces of firm and fleshy, pink-tan tissue with areas of brown-black discoloration of the surface, each measuring approximately 2.0 x 2.0 x 1.5 cm. The left ovary consisted of a 3.0 x 1.5 x 1.5 cm piece of firm and fleshy, pink-tan tissue with some dark brown discoloration of the surface.
CONTRIBUTOR: Loma Linda Pathology Group (kt)  CASE NO. 9 - SEPTEMBER 1998
Loma Linda, CA

TISSUE FROM: Uterus ACCESSION #28251

CLINICAL ABSTRACT:
This 38-year-old female presented with a pelvic mass. An exploratory laparotomy with total abdominal hysterectomy was performed.

GROSS PATHOLOGY:
The 1375 gram, 19.0 x 17.0 x 10.0 cm uterus with attached bilateral adnexa showed a firm white-tan mass which extended from the endomyometrium to the serosal surface. It also appeared to invade into the endocervical canal.

SPECIAL STAINS:
- Desmin: 3+ (of 4)
- Leukocyte common antigen: negative
- Chromogranin: negative
- Actin: negative
- Keratin (cocktail and CAM 5.2): no significant activity
- S-100: focal faint positivity, but largely negative
- Synaptophysin: no significant staining
- Glycogen: no significant staining
- PAS: weakly + in tumor cells

CONTRIBUTOR: D.M. Lawrence  CASE NO. 10 - SEPTEMBER 1998
San Luis Obispo, CA

TISSUE FROM: Left ovary ACCESSION #28240

CLINICAL ABSTRACT:
This 88-year-old female presented with weight loss and weakness. Work-up revealed a 15 cm left ovarian mass. The patient underwent a left salpingo-oophorectomy.

GROSS PATHOLOGY:
The 501 gram, 15.0 x 10.5 x 7.2 cm ovary had a solid and cystic parenchyma.

SPECIAL STAINS:
- Cytokeratin: positive
- Vimentin: positivity restricted to vascular structures
- Germ cell markers: negative
SUGGESTED READING (General Topics from Recent Literature):


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CASE NO. 1, ACCESSION NO. 22287

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.
LOUISIANNA (Shreveport) - Polycystic ovary with luteinized stroma.
FLORIDA (Tallahassee) - Stromal hyperthecosis (3); Polycystic ovary (Stein-Leventhal) (1).
IDAHO (IDX Pathology) - Polycystic ovary.
KENTUCKY (Louisville) - Stein-Leventhal 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:
CASE NO. 2, ACCESSION NO. 28322

SEPTEMBER 1998

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 monomorphic 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) - Myxoid sarcoma.

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:


CASE NO. 3, ACCESSION NO. 28274  SEPTEMBER 1998

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) - Strumal carcinoid (2).

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

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

LONG BEACH - Trabecular carcinoid (6).

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

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

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

NEBRASKA (Creighton) - Struma ovarii with carcinoid vs. malignant stromal tumor.

VENTURA (Unilab) - Strumal carcinoid (2).

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

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

LONG BEACH - Trabecular carcinoid (6).

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

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

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

NEBRASKA (Creighton) - Strumal carcinoid.

ILLINOIS - Strumal carcinoid.

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

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

IDAHO (IDX Pathology) - Trabecular carcinoid tumor.

KENTUCKY (Louisville) - Strumal carcinoid (1); Trabecular carcinoid (strumal carcinoid) (1).

MARYLAND (Sinai Hospital) - Strumal carcinoid.

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

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

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

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

NEW YORK (Northport) - Strumal carcinoid.

NEW JERSEY (St. Barnabas Med Ctr) - Strumal 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:


CASE NO. 4, ACCESSION NO. 28194

SEPTEMBER 1998

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.

LOUISIANNA (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:


CASE NO. 5, ACCESSION NO. 26740

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 (i); 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.

LOUISIANNA (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:


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:
CASE NO. 7, ACCESSION NO. 28201  SEPTEMBER 1998

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.

LOUISIANNA (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 OVARI
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:


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.
LOUISIANNA (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:
CASE NO. 9, ACCESSION NO. 28251

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 stromal 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 stromal 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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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 (1); Undifferentiated carcinoma (1).

SANTA ROSA - Malignant NCS, r/o metastatic carcinosarcoma (1); Malignant, poorly differentiated carcinoma, r/o Krukenberg (1); Poorly differentiated carcinoma (1).

SACRAMENTO (UC Davis) - Carcinosarcoma, ovary.

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.

LOUISIANNA (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

REFERENCES:


