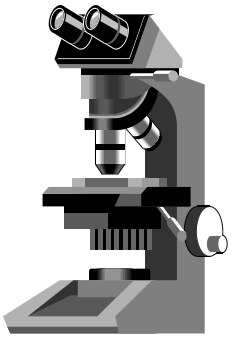
CALIFORNIA
TUMOR TISSUE REGISTRY

GYNECOLOGIC PATHOLOGY

Minutes – Subscription B

November 2001



SUGGESTED READING (General Topics from Recent Literature):

Ectopic Prostatic Tissue in the Uterine Cervix. Walace C, Creager AJ, Cappellari JO, et al. *The Am J of Surg Pathol* 2001; 25(9): 1215-1216.

Uterine Fibroid Embolization. Nonsurgical Treatment for Symptomatic Fibroids. LcLucas B, Adler L and Perrella R. *J Am Coll Surg;* 192(1):95-97.

Giant Cell Reparative Granuloma. A Comparative Clinicopathologic Study of Lesions in Gnathic and Extragnathic Sites. *Int J Surg Pathol* 2001; 9:189-200.

Benign Fibrous Histiocytoma (Dermatofibroma) of the Face. Mentzel T, Kutzner H, et al. *Am J Dermatopathol* 2001; 23:419-426.

Mesenchymal Tumors of the Muscularis Mucosae of Colon and Rectum are Benign Leiomyomas That Should be Separated from Gastrointestinal Stromal Tumors. A Clinicopathologic and Immunohistochemical Study of Eighty-Eight Cases. Mod Pathol 2001; 14:950-956.

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FILE DIAGNOSES

CTTR Subscription B November 2001

Case 1:

Angiofibroblastoma, vulva

T-80100, M-91611

Case 2:

Epithelioid leiomyosarcoma, uterus

T-86100, M-1X-300

Case 3:

Malignant mixed mesodermal tumor (MMMT, "carcinoma"), homologous, ovary

T-Y6235, M-89513

Case 4:

Leiomyoma, ovary

T-87000, M-88900

Case 5:

Brenner tumor, ovary

T-87000, M-90000

Case 6:

High grade transitional cell carcinoma, ovary

T-87000, M-81203

Case 7:

Cellular fibroma ("fibrothecoma"), ovary

T-87000, M-88100

Case 8:

Thecoma ("fibrothecoma"), ovary

T-87000, M-86000

Case 9:

Adult granulosa cell tumor, ovary

T-87000, M-86201

Case 10:

Papillary serous adenocarcinoma, ovary

T-87000, M-84603

Case No. 1, Accession No. 29075 November 2001

Glendale (Glendale Pathology Association) - Benign angiomyofibroblastoma
Los Angeles (USC Residents) - Angiomyxoma
Modesto (Yosemite Pathology Medical Group) - Angiomyofibroblastoma
Orange (UCI Medical Center) - Angiomyofibroblastoma
Sacramento (UC Davis Medical Center) - Aggressive angiomyxoma
Arizona (Phoenix Memorial Hospital) - Aggressive angiomyxoma
Arkansas (UAMS) - Angiomyofibroblastoma
Colorado (UniPath) - Hemangiopericytoma
Florida (Winter Haven Hospital) - Angiomyofibroblastoma
Georgia, Decatur - Angiomyofibroblastoma
Illinois (Marion Memorial Hospital) - Angiomyxoma with inflammatory changes
Indiana, Fort Wayne - Aggressive angiomyxoma, vulva
Kansas (Coffeyville Regional Medical Center) - Aggressive angiomyxoma, vulva
Kansas (University of Kansas Medical Center) - Angiomyxoma
Maryland (NIH) - Angiomyofibroblastoma
Maryland (National Naval Medical Center) - Aggressive angiomyxoma (7); Angiomyofibroma (3)
Maryland (University of Maryland Medical System) - Aggressive angiomyxoma
Massachusetts (Berkshire Medical Center) - Angiomyofibroblastoma
Massachusetts (Brigham and Womens Residents) - Angiomyofibroblastoma vs. cellular angiofibroma
Michigan, East Lansing - Aggressive angiomyxoma
Michigan (St. Joseph Mercy Hospital) - Angiomyofibroblastoma
Michigan (St. Mary's Hospital) - Angiomyofibroblastoma (1); Angiomyxoma (1)
Michigan (Spectrum Health/Blodgett) - Angiomyofibroblastoma
Missouri, Joplin - Angiomyxoma
Nebraska (Good Samaritan Hospital) - Angiomyofibroblastoma
New Jersey (NJ Dermatopathology Lab) - Aggressive angiomyxoma
New York (Guest Diagnostics) - Vulva, angiomyofibroblastoma
Ohio, Columbus - Angiomyofibroblastoma
Ohio (MCO Pathology) - Benign pseudosarcomatous polyp/fibroepithelial vulva polyp
Pennsylvania (Allegheny General Hospital) - Angiomyofibroblastoma
Pennsylvania (Memorial Medical Center) - Angiomyofibroblastoma
Tennessee, Nashville - Angiomyofibroblastoma
Texas, Lubbock - Angiomyofibroblastoma
Texas, San Antonio - Angiomyofibroblastoma
Texas, (Scott and White Memorial Hospital) - Solitary fibrous tumor
Utah (St. Marks Hospital) - Aggressive angiomyxoma
Washington (SW Washington Medical Center) - Angiomyofibroblastoma
Washington, DC - Aggressive angiomyxoma
Canada (CUSE, Site Fleurimont) - Angiomyofibroblastoma
China (Sir Run Run Shaw Hospital) - Angiomyofibroblastoma
Japan (Hamamatsu University School of Medicine) - Aggressive angiomyxoma
Japan (Shiga University of Medical Science) - Aggressive angiomyxoma
Netherlands, Amsterdam - Angiomyofibroblastoma

Case 1 - Diagnosis:

Angiofibroblastoma, vulva

T-80100, M-91611

Case 1 – References:

Fletcher CD, Tsang WY, Fischer C, et al. Angiomyofibroblastoma of the Vulva. A Benign Neoplasm Distinct From Aggressive Angiomyxoma. *Am J Surg Pathol* 1992; 16(4):373-382.

Kavak ZN, Basgul A, Eren F, et al. Angiomyofibroblastoma of the Vulva. A Rare But Distinct Entity. *Acta Obstet Gynecol Scand* 2000; 79(7):612-613.

Hiruki T, Thomas MJ and Clement PB. Vulvar Angiomyofibroblastoma. *Am J Surg Pathol* 1993; 17(4):423-424.

Kobayashi T, Suzuki K, Arai T, et al. Angiomyofibroblastoma Arising From the Fallopian Tube. *Obstet Gynecol* 1999; 94(5 Pt 2):833-834.

Case No. 2, Accession No. 29142 November 2001

Glendale (Glendale Pathology Association) - Epithelioid leiomyosarcoma
Los Angeles (USC Residents) - Epithelioid leiomyosarcoma
Modesto (Yosemite Pathology Medical Group) - Endometrial stromal sarcoma
Orange (UCI Medical Center) - Epithelioid leiomyosarcoma
Sacramento (UC Davis Medical Center) - Endometrial stromal nodule
Arizona (Phoenix Memorial Hospital) - High grade endometrial sarcoma
Arkansas (UAMS) - Epithelioid smooth muscle tumor
Colorado (UniPath) - Leiomyosarcoma
Florida (Winter Haven Hospital) - Epithelioid leiomyosarcoma
Georgia, Decatur - Endometrial stromal sarcoma
Illinois (Marion Memorial Hospital) - Epithelioid smooth muscle tumor of uncertain malignant potential
Indiana, Fort Wayne - Epithelioid leiomyosarcoma, uterus
Kansas (Coffeyville Regional Medical Center) - Epithelioid leiomyoma, uterus
Kansas (University of Kansas Medical Center) - Endometrial stromal sarcoma
Maryland (NIH) - Epithelioid leiomyosarcoma (10)
Maryland (National Naval Medical Center) - Benign nodule showing stromal and probable smooth muscle differentiation
Maryland (University of Maryland Medical System) - Low grade stromal sarcoma
Massachusetts (Berkshire Medical Center) - Epithelioid leiomyosarcoma, consider MMMT
Massachusetts (Brigham and Womens Residents) - Leiomyosarcoma
Michigan, East Lansing - Epithelioid leiomyosarcoma
Michigan (St. Joseph Mercy Hospital) - Leiomyosarcoma
Michigan (St. Mary's Hospital) - Endometrial stromal sarcoma, high grade
Michigan (Spectrum Health/Blodgett) - Uterine stromal sarcoma
Missouri, Joplin - High grade stromal sarcoma
Nebraska (Good Samaritan Hospital) - High grade stromal sarcoma
New Jersey (NJ Dermatopathology Lab) - Leiomyosarcoma
New York (Guest Diagnostics) - Epithelioid leiomyoma of uncertain malignant potential
Ohio, Columbus - Leiomyosarcoma
Ohio (MCO Pathology) - Epithelioid leiomyoma, leiomyoblastoma
Pennsylvania (Allegheny General Hospital) - Stromal sarcoma
Pennsylvania (Memorial Medical Center) - Endometrial stromal tumor
Tennessee, Nashville - Low grade endometrial stromal sarcoma
Texas, Lubbock - Epithelioid leiomyosarcoma
Texas, San Antonio - Endometrial stromal sarcoma
Texas, (Scott and White Memorial Hospital) - Epithelioid leiomyosarcoma
Utah (St. Marks Hospital) - Epithelioid leiomyosarcoma
Washington (SW Washington Medical Center) - Epithelioid leiomyoma, leiomyoblastoma type
Washington, DC - Leiomyosarcoma, epithelioid
Canada (CUSE, Site Fleurimont) - Combined smooth muscle cell stromal tumor
China (Sir Run Run Shaw Hospital) - Epithelioid leiomyosarcoma
Japan (Hamamatsu University School of Medicine) - Leiomyosarcoma, epithelioid type
Japan (Shiga University of Medical Science) - Epithelioid leiomyosarcoma
Netherlands, Amsterdam - Epithelioid leiomyosarcoma ?

Case 2 - Diagnosis:

Epithelioid leiomyosarcoma, uterus
T-86100, M-1X300

CONSULTATION: A.F.I.P. "Epithelioid smooth muscle tumor of uncertain malignant potential."

Case 2 - References:

Hu J and Suri U. Subgroups of Uterine Leiomyomas Based on Cytogenic Analysis. *Hum Pathol* 1991; 22(10):1009-1016.

Mazur MT and Kraus FT. Histogenesis of Morphologic Variations in Tumors of the Uterine Wall. *Am J Surg Pathol* 1980; 4(1)59-74.

O'Connor DM and Norris HJ. Mitotically Active Leiomyomas of the Uterus. *Hum Pathol* 1990; 21(2):223-227.

Bell SW, Kempson RL and Hendrickson MR. Problematic Uterine Smooth Muscle Neoplasms. A Clinicopathologic Study of 213 Cases. *Am J Surg Pathol* 1994; 18(6):535-558.

Prayson RA, Goldblum JR and Hart WR. Epithelioid Smooth-Muscle Tumors of the Uterus. A Clinicopathologic Study of 18 Patients. *Am J Surg Pathol* 1997; 21(4):383-391.

Kuroda H, Konishi I, Nanbu K, et al. Malignant Plexiform Tumor of the Uterus. An Unusual Variant of Epithelioid Leiomyosarcoma. *Gynecol Oncol* 1996; 63(2):270-275.

Case No. 3, Accession No. 29103 **November 2001**

Glendale (Glendale Pathology Association) - Malignant mixed mullerian tumor
Los Angeles (USC Residents) - Sertoli-Leydig cell tumor
Modesto (Yosemite Pathology Medical Group) - Carcinosarcoma
Orange (UCI Medical Center) - Malignant mesodermal mixed tumor
Sacramento (UC Davis Medical Center) - Carcinosarcoma
Arizona (Phoenix Memorial Hospital) - Malignant mesodermal mixed tumor (carcinosarcoma)
Arkansas (UAMS) - Malignant mixed mullerian tumor
Colorado (UniPath) - Adenocarcinoma
Florida (Winter Haven Hospital) - Sertoli cell tumor, malignant
Georgia, Decatur - Carcinosarcoma (MMMT)
Illinois (Marion Memorial Hospital) - Malignant mixed mullerian tumor
Indiana, Fort Wayne - Carcinosarcoma, ovary
Kansas (Coffeyville Regional Medical Center) - Sex cord-stromal tumor, ovary (gynandroblastoma ?)
Kansas (University of Kansas Medical Center) - Malignant mixed mullerian tumor
Maryland (NIH) - Malignant mixed mesodermal tumor
Maryland (National Naval Medical Center) - Malignant mixed mullerian tumor (carcinosarcoma) (9); Endometrioid carcinoma with sarcomatous differentiation and Sertoliform features (1)
Maryland (University of Maryland Medical System) - Carcinosarcoma
Massachusetts (Berkshire Medical Center) - Malignant mixed mullerian tumor
Massachusetts (Brigham and Womens Residents) - Teratoid Wilms' tumor vs. MMMT vs. yolk sac tumor
Michigan, East Lansing - Malignant mesodermal mixed tumor
Michigan (St. Joseph Mercy Hospital) - Carcinosarcoma (MMMT)
Michigan (St. Mary's Hospital) - Malignant mixed mesodermal tumor (2)
Michigan (Spectrum Health/Blodgett) - Malignant mixed mullerian tumor
Missouri, Joplin - Malignant teratoma
Nebraska (Good Samaritan Hospital) - Carcinosarcoma
New Jersey (NJ Dermatopathology Lab) - Carcinosarcoma
New York (Guest Diagnostics) - Malignant mixed mullerian tumor
Ohio, Columbus - Malignant mixed mullerian tumor
Ohio (MCO Pathology) - Poorly differentiated Sertoli-Leydig tumor vs. germ cell tumor with Wilms' differentiation
Pennsylvania (Allegheny General Hospital) - Malignant mixed mesodermal tumor
Pennsylvania (Memorial Medical Center) - Small cell carcinoma, ovary
Tennessee, Nashville - Endometrioid adenocarcinoma
Texas, Lubbock - Poorly differentiated papillary serous carcinoma
Texas, San Antonio - Sertoli-Leydig cell tumor
Texas, (Scott and White Memorial Hospital) - Mixed mullerian tumor with homologous elements
Utah (St. Marks Hospital) - Malignant mixed mullerian tumor
Washington (SW Washington Medical Center) - Malignant mixed mesodermal tumor, homologous type
Washington, DC - Sertoli-Leydig cell tumor
Canada (CUSE, Site Fleurimont) - Sertoli Leydig cell tumor
China (Sir Run Run Shaw Hospital) - Mixed mesodermal tumor
Japan (Hamamatsu University School of Medicine) - Carcinosarcoma
Japan (Shiga University of Medical Science) - Malignant mixed mesodermal tumor (homologous)
Netherlands, Amsterdam - Carcinosarcoma

Case 3 - Diagnosis:

Malignant mixed mesodermal tumor (MMMT, "carcinoma"), homologous, ovary
T-Y6235, M-89513

Case 3 - References:

Shen, DH, Khoo US, Xue WC, et al. Primary Peritoneal Malignant Mixed Mullerian Tumors. A Clinicopathologic, Immunohistochemical, and Genetic Study. *Cancer* 2001; 91(5):1052-1060.
Costa MJ and Guinee D Jr. CD34 Immunohistochemistry in Female Genital Tract Carcinosarcoma (Malignant Mixed Mullerian Tumors) Support a Dominant Role of the Carcinomatous Component. *Appl Immunohistochem Molecul Morphol* 2000; 8(4):293-299.

Boucher D and Tetu B. Morphologic Prognostic Factors of Malignant Mixed Mullerian Tumors of the Ovary. A Clinicopathologic Study of 15 Cases. *Int of Gynecol Pathol* 1994; 13(1):22-28.

Case No. 4, Accession No. 29190 November 2001

Glendale (Glendale Pathology Association) - Leiomyoma
Los Angeles (USC Residents) - Leiomyoma
Modesto (Yosemite Pathology Medical Group) - Leiomyoma
Orange (UCI Medical Center) - Leiomyoma
Sacramento (UC Davis Medical Center) - Sclerosing stromal tumor
Arizona (Phoenix Memorial Hospital) - Fibroma
Arkansas (UAMS) - Leiomyoma
Colorado (UniPath) - Leiomyoma
Florida (Winter Haven Hospital) - Fibroma
Georgia, Decatur - Leiomyoma with hydropic change
Illinois (Marion Memorial Hospital) - Leiomyoma
Indiana, Fort Wayne - Leiomyoma, ovary
Kansas (Coffeyville Regional Medical Center) - Cellular leiomyoma, ovary
Kansas (University of Kansas Medical Center) - Leiomyoma
Maryland (NIH) - Leiomyoma
Maryland (National Naval Medical Center) - Leiomyoma (10)
Maryland (University of Maryland Medical System) - Leiomyoma
Massachusetts (Berkshire Medical Center) - Leiomyoma
Massachusetts (Brigham and Womens Residents) - Leiomyoma
Michigan, East Lansing - Fibrothecoma
Michigan (St. Joseph Mercy Hospital) - Leiomyoma
Michigan (St. Mary's Hospital) - Leiomyoma (2)
Michigan (Spectrum Health/Blodgett) - Leiomyomatosis
Missouri, Joplin - Leiomyoma
Nebraska (Good Samaritan Hospital) - Leiomyoma
New Jersey (NJ Dermatopathology Lab) - Thecoma-fibroma
New York (Guest Diagnostics) - Cellular leiomyoma
Ohio, Columbus - Leiomyoma
Ohio (MCO Pathology) - Leiomyoma
Pennsylvania (Allegheny General Hospital) - Leiomyoma
Pennsylvania (Memorial Medical Center) - Sclerosing stromal tumor of ovary
Tennessee, Nashville - Sclerosing stromal tumor
Texas, Lubbock - Leiomyoma
Texas, San Antonio - Sclerosing stromal tumor
Texas, (Scott and White Memorial Hospital) - Leiomyoma
Utah (St. Marks Hospital) - Leiomyoma
Washington (SW Washington Medical Center) - Ovarian leiomyoma
Washington, DC - Fibromatosis
Canada (CUSE, Site Fleurimont) - Leiomyoma
China (Sir Run Run Shaw Hospital) - Leiomyoma
Japan (Hamamatsu University School of Medicine) - Leiomyoma of the ovary
Japan (Shiga University of Medical Science) - Leiomyoma
Netherlands, Amsterdam - Fibroma

Case 4 - Diagnosis:

Leiomyoma, ovary

T-87000, M-88900

Case 4 - References:

Fallahzadeh H, Dockerty MB and Lee RA. Leiomyoma of the Ovary. Report of Five Cases and Review of the Literature. *Am J Obstet and Gynecol* 1972; 113(3):394-398.
Matamala MF, Nogales FF, Ameros J, et al. Leiomyomas of the Ovary. *Int J Gynecol Pathol* 1988; 7:190-196.
Bryson RA and Hart WR. Primary Smooth Muscle Tumor of the Ovary. A Clinicopathologic Study of Four Leiomyomas and Two Mitotically Active Leiomyomas. *Arch Pathol Lab Med* 1992; 116(10):1068-1071.

Mira JL. Lipoleiomyoma of the Ovary. Report of a Case and Review of the English Literature. *Int J of Gynecol Pathol* 1991; 10(2):198-202.

Case No. 5, Accession No. 29181 November 2001

Glendale (Glendale Pathology Association) - Brenner tumor
Los Angeles (USC Residents) - Brenner tumor
Modesto (Yosemite Pathology Medical Group) - Brenner tumor
Orange (UCI Medical Center) - Brenner tumor
Sacramento (UC Davis Medical Center) - Brenner tumor
Arizona (Phoenix Memorial Hospital) - Brenner tumor, benign
Arkansas (UAMS) - Brenner tumor
Colorado (UniPath) - Brenner tumor
Florida (Winter Haven Hospital) - Brenner tumor
Georgia, Decatur - Brenner tumor
Illinois (Marion Memorial Hospital) - Brenner tumor
Indiana, Fort Wayne - Proliferating Brenner tumor, ovary
Kansas (Coffeyville Regional Medical Center) - Brenner tumor, ovary
Kansas (University of Kansas Medical Center) - Brenner tumor
Maryland (NIH) - Benign Brenner tumor
Maryland (National Naval Medical Center) - Brenner tumor (10)
Maryland (University of Maryland Medical System) - Brenner tumor and stromal hyperthecosis
Massachusetts (Berkshire Medical Center) - Brenner tumor
Massachusetts (Brigham and Womens Residents) - Brenner tumor
Michigan, East Lansing - Brenner tumor
Michigan (St. Joseph Mercy Hospital) - Brenner tumor
Michigan (St. Mary's Hospital) - Brenner tumor (2)
Michigan (Spectrum Health/Blodgett) - Brenner tumor
Missouri, Joplin - Brenner tumor, benign
Nebraska (Good Samaritan Hospital) - Brenner tumor
New Jersey (NJ Dermatopathology Lab) - Brenner tumor
New York (Guest Diagnostics) - Brenner tumor
Ohio, Columbus - Brenner tumor
Ohio (MCO Pathology) - Brenner tumor, benign
Pennsylvania (Allegheny General Hospital) - Brenner tumor
Pennsylvania (Memorial Medical Center) - Brenner tumor
Tennessee, Nashville - Benign Brenner tumor
Texas, Lubbock - Brenner tumor
Texas, San Antonio - Brenner tumor
Texas, (Scott and White Memorial Hospital) - Brenner tumor
Utah (St. Marks Hospital) - Brenner tumor
Washington (SW Washington Medical Center) - Brenner tumor
Washington, DC - Brenner tumor
Canada (CUSE, Site Fleurimont) - Brenner tumor
China (Sir Run Run Shaw Hospital) - Brenner tumor with cortical hyperplasia
Japan (Hamamatsu University School of Medicine) - Brenner tumor
Japan (Shiga University of Medical Science) - Brenner tumor
Netherlands, Amsterdam - Brenner tumor ?

Case 5 - Diagnosis:

Brenner tumor, ovary

T-87000, M-90000

Case 5 - References:

Ehrlich CE and Roth LM. The Brenner Tumor. A Clinicopathologic Study of 57 Cases. *Cancer* 1971; 27(2):332-342.
Balasa RW, Adcock LL, Prem KA, et al. The Brenner Tumor. A Clinicopathologic Review. *Obstet Gynecol* 1977; 50(1):120-128.
Bransilver BR, Ferenczy A and Richart RM. Brenner Tumors and Walthard Nests. *Arch Pathol* 1974; 98(2):76-86.
Santini D, Gelli MC, Mazzoleni G, et al. Brenner Tumor of the Ovary. A Correlative Histologic Histochemical, Immunohistochemical and Ultra-Structural Investigation. *Hum Pathol* 1989; 20(8):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(3):188-196.

Case No. 6, Accession No. 29134 November 2001

Glendale (Glendale Pathology Association) - Transitional cell carcinoma vs. malignant Brenner tumor
Los Angeles (USC Residents) - Transitional cell carcinoma
Modesto (Yosemite Pathology Medical Group) - Endometrioid adenocarcinoma
Orange (UCI Medical Center) - Poorly differentiated adenocarcinoma
Sacramento (UC Davis Medical Center) - Transitional cell carcinoma
Arizona (Phoenix Memorial Hospital) - Malignant Brenner tumor (transitional cell carcinoma)
Arkansas (UAMS) - Transitional cell carcinoma
Colorado (UniPath) - Papillary adenocarcinoma
Florida (Winter Haven Hospital) - Transitional cell carcinoma
Georgia, Decatur - Transitional cell carcinoma
Illinois (Marion Memorial Hospital) - Papillary carcinoma, Grade 3 (? transitional cell origin)
Indiana, Fort Wayne - High grade endometrioid carcinoma, ovary
Kansas (Coffeyville Regional Medical Center) - Malignant Brenner tumor, ovary (transitional cell carcinoma)
Kansas (University of Kansas Medical Center) - Transitional cell carcinoma of the ovary
Maryland (NIH) - Transitional cell carcinoma
Maryland (National Naval Medical Center) - Transitional cell carcinoma, high grade (10)
Maryland (University of Maryland Medical System) - High grade transitional cell carcinoma
Massachusetts (Berkshire Medical Center) - High grade transitional cell carcinoma
Massachusetts (Brigham and Womens Residents) - High grade carcinoma with serous and transitional features
Michigan, East Lansing - Primary ovarian transitional cell carcinoma
Michigan (St. Joseph Mercy Hospital) - High grade papillary serous carcinoma
Michigan (St. Mary's Hospital) - Malignant Brenner tumor (2)
Michigan (Spectrum Health/Blodgett) - Endometrioid carcinoma, high grade
Missouri, Joplin - Malignant granulosa cell tumor
Nebraska (Good Samaritan Hospital) - Transitional cell carcinoma
New Jersey (NJ Dermatopathology Lab) - Mucinous adenocarcinoma consistent with Krukenberg
New York (Guest Diagnostics) - Poorly differentiated adenocarcinoma (favor high grade serous adenocarcinoma)
Ohio, Columbus - Carcinoma
Ohio (MCO Pathology) - Mucinous cystadenocarcinoma (should compare to previous breast carcinoma)
Pennsylvania (Allegheny General Hospital) - Transitional cell carcinoma
Pennsylvania (Memorial Medical Center) - Papillary serous adenocarcinoma
Tennessee, Nashville - Malignant Brenner tumor
Texas, Lubbock - Poorly differentiated papillary serous carcinoma
Texas, San Antonio - Transitional cell carcinoma
Texas, (Scott and White Memorial Hospital) - Favor serous adenocarcinoma, poorly differentiated
Utah (St. Marks Hospital) - Metastatic carcinoma
Washington (SW Washington Medical Center) - Transitional cell carcinoma, Grade 3 (no benign Brenner elements seen in this section)
Washington, DC - Transitional cell carcinoma, papillary
Canada (CUSE, Site Fleurimont) - Carcinoid tumor
China (Sir Run Run Shaw Hospital) - Transitional cell carcinoma
Japan (Hamamatsu University School of Medicine) - Endometrioid adenocarcinoma
Japan (Shiga University of Medical Science) - Transitional cell carcinoma
Netherlands, Amsterdam - Transitional carcinoma, Grade 3

Case 6 - Diagnosis:

High grade transitional cell carcinoma, ovary

T-87000, M-81203

Case 6 - References:

Robey SS, Silva EG, Gershenson DA, et al. Transitional Cell Carcinoma is a High-Grade High-Stage Ovarian Carcinoma. *Cancer* 1989; 63(5):839-847.

Austin RM and Norris HJ. Malignant Brenner Tumor and Transitional Cell Carcinoma of the Ovary . A Comparison. *Int J Gynecol* Pathol 1987; 6(1):29-39.

Wooruff JD, Dietrich D, Genadry R, et al. Proliferative and Malignant Brenner Tumors. Review of 47 Cases. *Am J Obstet Gynecol* 1981:141(2):118-125.
Ordonez NG. Transitional Cell Carcinoma of the Ovary and Bladder are Immunophenotypically Different. *Histopathol* 2000; 36(5):433-438.
Roth LM, Gersell DJ and Ulbright TM. Transitional Cell Carcinoma and Other Transitional Cell Tumors of the Ovary. *Anat Pathol* 1996; 1:179-191.

Case No. 7, Accession No. 29120 November 2001

Glendale (Glendale Pathology Association) - Thecoma
Los Angeles (USC Residents) - Fibrothecoma
Modesto (Yosemite Pathology Medical Group) - Fibroma
Orange (UCI Medical Center) - Fibroma
Sacramento (UC Davis Medical Center) - Thecoma
Arizona (Phoenix Memorial Hospital) - Fibrosarcoma
Arkansas (UAMS) - Ovarian fibroma
Colorado (UniPath) - Leiomyosarcoma
Florida (Winter Haven Hospital) - Fibroma
Georgia, Decatur - Cellular fibroma
Illinois (Marion Memorial Hospital) - Cellular fibroma
Indiana, Fort Wayne - Cellular (mitotically active) fibroma, left ovary
Kansas (Coffeyville Regional Medical Center) - Cellular fibroma, ovary
Kansas (University of Kansas Medical Center) - Fibrothecoma
Maryland (NIH) - Cellular fibroma
Maryland (National Naval Medical Center) - Cellular fibroma (10)
Maryland (University of Maryland Medical System) - Cellular fibroma
Massachusetts (Berkshire Medical Center) - Fibrothecoma
Massachusetts (Brigham and Womens Residents) - Cellular fibroma
Michigan, East Lansing - Fibroma
Michigan (St. Joseph Mercy Hospital) - Fibroma
Michigan (St. Mary's Hospital) - Fibroma (2)
Michigan (Spectrum Health/Blodgett) - Fibroma
Missouri, Joplin - Tumor of thecoma, fibroma group
Nebraska (Good Samaritan Hospital) - Cellular fibroma
New Jersey (NJ Dermatopathology Lab) - Cellular fibroma
New York (Guest Diagnostics) - Fibroma of ovary
Ohio, Columbus - Cellular fibroma
Ohio (MCO Pathology) - Cellular fibroma
Pennsylvania (Allegheny General Hospital) - Cellular fibroma
Pennsylvania (Memorial Medical Center) - Fibrothecoma
Tennessee, Nashville - Cellular fibroma
Texas, Lubbock - Thecoma
Texas, San Antonio - Fibroma
Texas, (Scott and White Memorial Hospital) - Fibroma
Utah (St. Marks Hospital) - Fibroma
Washington (SW Washington Medical Center) - Cellular fibroma
Washington, DC - Fibroma
Canada (CUSE, Site Fleurimont) - Fibroma
China (Sir Run Run Shaw Hospital) - Cellular fibroma
Japan (Hamamatsu University School of Medicine) - Fibroma
Japan (Shiga University of Medical Science) - Fibroma
Netherlands, Amsterdam - Cellular fibroma

Case 7 - Diagnosis:

Cellular fibroma ("fibrothecoma"), ovary
T-87000, M-88100

Case 7 - References:

Prat J and Scully RE. Cellular Fibroma and Fibrosarcoma of the Ovary. A Comparative Clinicopathologic Analysis of Seventeen Cases. *Cancer* 1981; 47(11):2663-2670.

Young RH and Scully RE. Ovarian Stromal Tumors with Minor Sex Cord Elements. A Report of 7 Cases. *Int J Gynecol Pathol* 1983; 2(3):227-234.
Tsuji T, Kawauchi S, Utsunomiya T, et al. Fibrosarcoma Versus Cellular Fibroma of the Ovary. A Comparative Study of Their Proliferative Activity and Chromosome Aberrations Using MIB-1 Immunostaining, DNA Flow Cytometry, and Fluorescence In Situ Hybridization. *Am J Surg Pathol* 1998; 22(4):508-510.
Costa MJ, Ames PF, Walls J, et al. Inhibin Immunohistochemistry Applied to Ovarian Neoplasms. A Novel, Effective, Diagnostic Tool. *Hum Pathol* 1997; 28(11):1247-1254.

Case No. 8, Accession No. 29049 November 2001

Glendale (Glendale Pathology Association) - Sertoli-Leydig cell tumor, poorly differentiated
Los Angeles (USC Residents) - Granulosa cell tumor
Modesto (Yosemite Pathology Medical Group) - Luteinized thecoma
Orange (UCI Medical Center) - Granulosa cell tumor
Sacramento (UC Davis Medical Center) - Fibrothecoma
Arizona (Phoenix Memorial Hospital) - Thecoma
Arkansas (UAMS) - Sclerosing stromal tumor
Colorado (UniPath) - Malignant Brenner tumor
Florida (Winter Haven Hospital) - Granulosa-theca cell tumor
Georgia, Decatur - Lutenized thecoma
Illinois (Marion Memorial Hospital) - Juvenile granulosa cell tumor
Indiana, Fort Wayne - Luteinized fibrothecoma, right ovary
Kansas (Coffeyville Regional Medical Center) - Juvenile granulosa cell tumor, ovary
Kansas (University of Kansas Medical Center) - Thecoma vs. steroid tumor of otherwise unspecified malignant potential
Maryland (NIH) - Leutinized thecoma
Maryland (National Naval Medical Center) - Luteinized thecoma (5); Steroid cell tumor (4); Granulosa cell tumor (1)
Maryland (University of Maryland Medical System) - Thecoma
Massachusetts (Berkshire Medical Center) - Juvenile granulosa cell tumor, steroid cell tumor, Brenners
Massachusetts (Brigham and Womens Residents) - Granulosa cell tumor vs. luteinized thecoma
Michigan, East Lansing - Granulosa cell tumor
Michigan (St. Joseph Mercy Hospital) - Granulosa cell tumor, juvenile type
Michigan (St. Mary's Hospital) - Thecoma (2)
Michigan (Spectrum Health/Blodgett) - Granulosa cell tumor, juvenile
Missouri, Joplin - Granulosa cell tumor
Nebraska (Good Samaritan Hospital) - Steroid cell tumor, NOS
New Jersey (NJ Dermatopathology Lab) - Sclerosing stromal tumor
New York (Guest Diagnostics) - Steroid cell tumor of ovary
Ohio, Columbus - Thecoma, ? malignant
Ohio (MCO Pathology) - Granulosa cell tumor
Pennsylvania (Allegheny General Hospital) - Adult granulosa cell tumor
Pennsylvania (Memorial Medical Center) - Granulosa cell tumor
Tennessee, Nashville - Juvenile granulosa cell tumor
Texas, Lubbock - Granulosa cell tumor
Texas, San Antonio - Granulosa cell tumor
Texas, (Scott and White Memorial Hospital) - Sclerosing stromal tumor
Utah (St. Marks Hospital) - Thecoma
Washington (SW Washington Medical Center) - Granulosa cell tumor
Washington, DC - Juvenile granulosa cell tumor
Canada (CUSE, Site Fleurimont) - Hilar cell tumor
China (Sir Run Run Shaw Hospital) - Malignant thecoma
Japan (Hamamatsu University School of Medicine) - Thecoma
Japan (Shiga University of Medical Science) - Steroid cell tumor, not otherwise classified
Netherlands, Amsterdam - Sex cord stromal tumor

Case 8 - Diagnosis:

Thecoma ("fibrothecoma"), ovary

T-87000, M-86000

Case 8 - References:

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Cronje HS, et al. Review of the Granulosa-Theca Cell Tumors From the Emil Novak Ovarian Tumor Registry. *Am J Obstet Gynecol* 1999; 180(2 Pt 1):323-327.

Evans AT, 3rd, Gafey TA, Malkasian GD, et al. Clinicopathologic Review of 118 Granulosa and 82 Theca Cell Tumors. *Obstet Gynecol* 1980; 55(2):231-238.

Prat J and Scully RE. Cellular Fibromas and Fibrosarcomas of the Ovary. A Comparative Clinicopathologic Analysis of 17 Cases. *Cancer* 1981; 47(11):2663-2670.

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Case No. 9, Accession No. 29041 November 2001

Glendale (Glendale Pathology Association) - Granulosa cell tumor, adult type
Los Angeles (USC Residents) - Granulosa cell tumor with prominent gyriform pattern
Modesto (Yosemite Pathology Medical Group) - Granulosa cell tumor
Orange (UCI Medical Center) - Sertoli-Leydig cell tumor
Sacramento (UC Davis Medical Center) - Ovarian carcinoid
Arizona (Phoenix Memorial Hospital) - Carcinoid
Arkansas (UAMS) - Granulosa tumor
Colorado (UniPath) - Sex cord tumor
Florida (Winter Haven Hospital) - Granulosa cell tumor
Georgia, Decatur - Carcinoid tumor
Illinois (Marion Memorial Hospital) - Granulosa cell tumor
Indiana, Fort Wayne - Sertoli-Leydig tumor, left ovary
Kansas (Coffeyville Regional Medical Center) - Adult granulosa cell tumor, ovary
Kansas (University of Kansas Medical Center) - Granulosa cell tumor
Maryland (NIH) - Sertoli-Leydig tumor
Maryland (National Naval Medical Center) - Granulosa cell tumor (9); Stromal carcinoid (1)
Maryland (University of Maryland Medical System) - Favor granulosa cell tumor vs. carcinoma
Massachusetts (Berkshire Medical Center) - Granulosa cell tumor, (*illegible answer*), Sertoli-Leydig
Massachusetts (Brigham and Womens Residents) - Granulosa cell tumor
Michigan, East Lansing - Small cell carcinoma of ovary
Michigan (St. Joseph Mercy Hospital) - Granulosa cell tumor, adult type
Michigan (St. Mary's Hospital) - Granulosa cell tumor (2)
Michigan (Spectrum Health/Blodgett) - Granulosa cell tumor, adult
Missouri, Joplin - Arrhenoblastoma
Nebraska (Good Samaritan Hospital) - Granulosa cell tumor
New Jersey (NJ Dermatopathology Lab) - Granulosa cell tumor
New York (Guest Diagnostics) - Carcinoid tumor of ovary
Ohio, Columbus - Granulosa tumor
Ohio (MCO Pathology) - Granulosa cell tumor
Pennsylvania (Allegheny General Hospital) - Carcinoid
Pennsylvania (Memorial Medical Center) - Sertoli Leydig cell tumor
Tennessee, Nashville - Sertoli cell tumor
Texas, Lubbock - Granulosa cell tumor
Texas, San Antonio - ? carcinoid
Texas, (Scott and White Memorial Hospital) - Granulosa cell tumor
Utah (St. Marks Hospital) - Granulosa cell tumor
Washington (SW Washington Medical Center) - Steroid cell tumor, NOS
Washington, DC - Granulosa cell tumor
Canada (CUSE, Site Fleurimont) - Granulosa cell tumor "A.T."
China (Sir Run Run Shaw Hospital) - Granulosa-theca cell tumor
Japan (Hamamatsu University School of Medicine) - Sertoli cell tumor
Japan (Shiga University of Medical Science) - Carcinoid tumor
Netherlands, Amsterdam - Granulosa cell tumor

Case 9 - Diagnosis:

Adult granulosa cell tumor, ovary

T-87000, M-86201

Case 9 - References:

Costa M, DeRose B, Roth L, et al. Immunohistochemical Phenotype of Ovarian Granulosa Cell Tumors. Absence of Epithelial Membrane Antigen Has Diagnostic Value. *Hum Pathol* 1994; 25(1):60-66.

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Kurman RJ, Goebelsmann U and Taylor CR. Steroid Localization in Granulosa Theca Tumors of the Ovary. *Cancer* 1979; 43:2377-2384.

Costa MJ, Walls J, Ames P and Roth LM. Transformation in Recurrent Ovarian Granulosa Cell Tumors. Ki67 (MIB-1) and p53 Immunohistochemistry Demonstrates a Possible Molecular Basis for the Poor Histopathologic Prediction of Clinical Behavior. *Hum Pathol* 1996; 27(3):274-281.

Case No. 10, Accession No. 29158 November 2001

Glendale (Glendale Pathology Association) - Papillary serous carcinoma
Los Angeles (USC Residents) - Serous carcinoma
Modesto (Yosemite Pathology Medical Group) - Papillary serous carcinoma
Orange (UCI Medical Center) - Serous papillary carcinoma
Sacramento (UC Davis Medical Center) - Papillary serous adenocarcinoma vs. primary peritoneal neoplasm (mesothelioma) (2)
Arizona (Phoenix Memorial Hospital) - Serous carcinoma
Arkansas (UAMS) - Papillary serous carcinoma
Colorado (UniPath) - Papillary adenocarcinoma
Florida (Winter Haven Hospital) - Papillary serous adenocarcinoma
Georgia, Decatur - papillary serous carcinoma
Illinois (Marion Memorial Hospital) - Serous papillary carcinoma
Indiana, Fort Wayne - Papillary serous carcinoma, ovary
Kansas (Coffeyville Regional Medical Center) - Papillary serous cyst adenocarcinoma, ovary
Kansas (University of Kansas Medical Center) - Papillary serous adenocarcinoma with psammoma bodies
Maryland (NIH) - Papillary serous carcinoma
Maryland (National Naval Medical Center) - Serous papillary carcinoma (10)
Maryland (University of Maryland Medical System) - Serous carcinoma
Massachusetts (Berkshire Medical Center) - Papillary serous carcinoma
Massachusetts (Brigham and Womens Residents) - Papillary serous carcinoma
Michigan, East Lansing - Papillary serous carcinoma
Michigan (St. Joseph Mercy Hospital) - Papillary serous carcinoma
Michigan (St. Mary's Hospital) - Serous carcinoma (2)
Michigan (Spectrum Health/Blodgett) - Serous carcinoma
Missouri, Joplin - Papillary carcinoma of ovary with psammomatous calcification
Nebraska (Good Samaritan Hospital) - Serous papillary adenocarcinoma, poorly differentiated
New Jersey (NJ Dermatopathology Lab) - Serous carcinoma with psammoma bodies
New York (Guest Diagnostics) - Serous papillary carcinoma of ovary
Ohio, Columbus - Papillary adenocarcinoma
Ohio (MCO Pathology) - Papillary serous adenocarcinoma, grade 3
Pennsylvania (Allegheny General Hospital) - Papillary serous carcinoma
Pennsylvania (Memorial Medical Center) - Serous cystadenocarcinoma
Tennessee, Nashville - Serous carcinoma (well-differentiated)
Texas, Lubbock - Poorly differentiated papillary serous carcinoma
Texas, San Antonio - Serous papillary carcinoma
Texas, (Scott and White Memorial Hospital) - Papillary serous carcinoma
Utah (St. Marks Hospital) - Serous carcinoma
Washington (SW Washington Medical Center) - Papillary serous carcinoma
Washington, DC - Papillary serous adenocarcinoma
Canada (CUSE, Site Fleurimont) - Serous carcinoma
China (Sir Run Run Shaw Hospital) - Serous papillary cystadenocarcinoma
Japan (Hamamatsu University School of Medicine) - Serous papillary adenocarcinoma
Japan (Shiga University of Medical Science) - Serous papillary adenocarcinoma

Netherlands, Amsterdam - Serous adenocarcinoma

Case 10 - Diagnosis:

Papillary serous adenocarcinoma, ovary

T-87000, M-84603

Case 10 - References:

Ben-Baruch G, Sivan E, Moran O, et al. Primary Peritoneal Serous Papillary Carcinoma. A Study of 25 Cases and Comparison with Stage III-IV Ovarian papillary Serous Carcinoma. *Gynecol Oncol* 1996; 60(3):393-396.

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Silva EG, Tornos CS, Malpica A, et al. Ovarian Serous Neoplasms of Low Malignant Potential Associated with Focal Areas of Serous Carcinoma. *Mod Pathol* 1997; 10(7):663-667.

Colombo N, Chiari S, Maggioni A, et al. Controversial Issues in the Management of Early Epithelial Ovarian Cancer. Conservative Surgery and Role of Adjuvant Therapy. *Gynecol Oncol* 1994; 55(3 Pt 2):S47-51.

Goff BA, Mandel L, Muntz HG, et al. Ovarian Carcinoma Diagnosis. Results of a National Cancer Survey. *Cancer* 2000; 89(20):68-75.

Yeisler JP, Geisler HE, Miller GA, et al. p53 and Bcl-2 in Epithelial Ovarian Carcinoma. Their Value as Prognostic Indicators at a Median Follow-Up of 60 Months. *Gynecol Oncol* 2000; 77(2):278-282.