

CALIFORNIA  
TUMOR TISSUE REGISTRY

**“GENERAL PATHOLOGY”**  
Study Cases, Subscription B

**October 2002**



California Tumor Tissue Registry  
c/o: Department of Pathology and Human Anatomy  
Loma Linda University School of Medicine  
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Web site & Case of the Month: [www.cttr.org](http://www.cttr.org)

**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.

**Objectives:**

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:**

Loma Linda University School of Medicine designates this continuing medical education activity for up to 2 hours of Category I of the Physician's Recognition Award of the American Medical Association.  
CME credit is offered for the subscription year only.

**Accreditation:**

Loma Linda University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians.

**Contributor: Wafa Michael, M.D.**  
**Fontana, CA**

**Case No. 1 - October 2002**

**Tissue from: Tendon sheath**

**Accession #29462**

**Clinical Abstract:**

A mass developed on the left palm of this 68-year-old male. The tissue was surgically removed.

**Gross Pathology:**

The specimen was a white bosselated dense mass that measured 3.5 x 3.0 x 2.3 cm.

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**Contributor: Catherine Odell, M.D.**  
**Riverside, CA**

**Case No. 2 - October 2002**

**Tissue from: Uterus**

**Accession #28871**

**Clinical Abstract:**

This was a 38-year-old female who had a long history of menometrorrhagia. She underwent a complete hysterectomy. Upon surgery, the uterus was enlarged and a cyst was found in the left ovary.

**Gross Pathology:**

The specimen was a uterus with detached cervix that weighed 400 grams and measured 11.0 x 8.0 x 7.0 cm. The myometrial wall was markedly thickened up to 5.0 cm. There were well-circumscribed myomatous nodules up to 2 cm. In the lateral aspect was a polypoid mass protruding 7.0 cm laterally in the inferior aspect. Cut sections were partly cystic with portions lined by red-tan tissue. Cystic portion was filled with dark, red-brown, water, serosanguinous fluid. Parenchyma was rubbery, homogenous and yellow.

**Contributor: Jozef Collin, M.D.**  
**Lakewood, CA**

**Case No. 3 - October 2002**

**Tissue from: Right ovary**

**Accession #29533**

**Clinical Abstract:**

A lower quadrant tumor developed in the right ovary of this 77-year-old female. A salpingo-oophorectomy was performed.

**Gross Pathology:**

The lesion measured 14.0 x 12.0 x 9.0 cm with smooth surface without papillations. Cross sectionings revealed hemorrhages and widespread necrosis. The rest of the tissue was fish-flesh with grayish-white color.

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**Contributor: Donald Rankin, M.D.**  
**Fontana, CA**

**Case No. 4 - October 2002**

**Tissue from: Left ovary**

**Accession #27738**

**Clinical Abstract:**

This 34-year-old female had a lesion found in her left ovary. She underwent a salpingo-ooperectomy.

**Gross Pathology:**

The specimen was a 430 gram ovary that measured 13.3 x 7.6 x 8.9 cm. The outer surface was gray-white and smooth. Sections showed two large cysts that measured 7.5 and 6.0 cm with hemorrhagic contents.

**SPECIAL STUDIES:**

Thyroglobulin	negative
NSE	negative
Chromogranin	negative
Grimeluis	focally positive

**Contributor: Mark Janssen, M.D.**  
**Anaheim, CA**

**Case No. 7 - October 2002**

**Tissue from: Left temporal**

**Accession #27399**

**Clinical Abstract:**

This 60-year-old male was presented with a several weeks history of headaches, speech difficulty, memory loss, confusion. He had an episode of loss of consciousness while on vacation in England a week prior to admission. CT scan confirmed an enhancing mass lesion in the left middle cranial fossa. A left frontotemporal craniotomy was performed.

**Gross Pathology:**

The left temporal tumor measured 4.0 x 4.0 x 2.5 cm. The tan tissue showed a nodular mass with smooth surfaces.

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**Contributor: Robert Zuch, M.D.**  
**Baldwin Park, CA**

**Case No. 8 - October 2002**

**Tissue from: Left arm**

**Accession #29483**

**Clinical Abstract:**

This right-handed 52-year-old male computer system analyst was presented with a three years history of a slow growing soft tissue mass in the left anterior arm. A firm, fixed and deep seeded mass was palpable upon physical examination. MRI showed a large homogenous mass in the distal brachialis muscle. An incisional biopsy was performed.

**Gross Pathology:**

The specimen was divided into two parts. First part was yellow tan tissue that measured 1.0 x 1.0 x 0.5 cm. The second portion weighed and measured 140 gram, 10.0 x 7.0 x 4.0 cm respectively. There was a separated piece of tissue that was composed of skin that measured 2.8 x 0.8 cm and an underlying tissue that measured 4.0 x 3.0 x 3.0 cm. The larger fraction of the tissue was totally replaced by a glistening white bosselated somewhat whorled appearing tumor mass.

**Contributor: LLUMC Pathology Group (gws)**  
**Loma Linda, CA**

**Case No. 9 - October 2002**

**Tissue from: Retroperitoneum**

**Accession #29478**

**Clinical Abstract:**

This is a 51-year-old male that had complains of increasing abdominal pain more on the left side, weakness, and weight loss. Abdominal CT scan revealed a mass in the retroperitoneum, which involved the left kidney, spleen and pancreas.

**Gross Pathology:**

This 1,820 grams of specimen was composed of the left kidney, tail of the pancreas, spleen, segment of colon, portion of stomach, adrenal gland and associate retroperitoneal soft tissue. The 14.0 cm irregular lobulated tumor with a fleshy tan white to yellow color was centered in the soft tissue above the left kidney. The distal portion of the tumor invaded the 1.0 cm proximal margin of the pancreas to the hilum of the spleen. The tumor compressed the adrenal gland laterally, but does not invade the cortex. The 26.0 cm segment of colon has a tumor adherent to the wall.

**SPECIAL STUDIES:**

Synaptophysin  
Chromogranin

Strongly positive  
Patchy weak positive

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**Contributor: Acero Guillermo, M.D.**  
**Santa Paulo, CA**

**Case No. 10 - October 2002**

**Tissue from: Left flank**

**Accession #29542**

**Clinical Abstract:**

For about a year, a mass in the left flank was causing discomfort to this 77-year-old male. The mass was observed to have increased its size and was excised for biopsy.

**Gross Pathology:**

The specimen was a bilobed well-circumscribed mass of adipose tissue and measured 8.5 x 6.5 x 4.0 cm. The sections revealed that the tissue was made up of yellow adipose or adipose-like tissue.

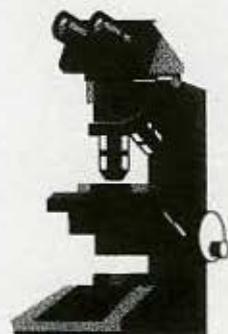


CALIFORNIA  
TUMOR TISSUE REGISTRY

“GENERAL PATHOLOGY”

Minutes – Subscription B

October 2002



**SUGGESTED READING (General Topics from Recent Literature):**

- Molecular Characterisation of Soft Tissue Tumours: A Gene Expression Study. Nielsen TO, West RB, Linn SC, et al. *Lancet*. 2002 Apr 13; 359(9314):1301-1307.
- A New Trend of Breast Cancer Research in The Genome Era (Review). Kodama M, Kodama T. *Int J Mol Med*. 2001 Sep; 8(3):291-302.
- A Novel Reciprocal Chromosome Translocation t(11;22)(p13;q12) in an Intraabdominal Desmoplastic Small Round-Cell Tumor. Sawyer JR, Tryka AF, Lewis JM. *Am J Surg Pathol*. 1992 Apr; 16(4):411-416.
- A Long-Term Study of Prognosis in Monoclonal Gammopathy of Undetermined Significance. Kyle RA, Therneau TM, Rajkumar SV, et al. *N Engl J Med*. 2002 Feb 21; 346(8):564-569.

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## FILE DIAGNOSES

CTTR Subscription B

October 2002

**Case 1:**

**Fibroma of tendon sheath, left palm**

T-Y8740, M-8810/0

**Case 2:**

**Epithelioid leiomyoma, uterus**

T-85000, M-88911

**Case 3:**

**Endometrioid adenocarcinoma, ovary**

T-87000, M-83801/3

**Case 4:**

**Strumal carcinoid (combined struma ovarii and carcinoid), ovary**

T-87000, M-90911

**Case 5:**

**Mixed germ cell tumor (embryonal carcinoma and seminoma) with syncytial trophoblastic elements, testis**

T-78000, M-90613

**Case 6:**

**Hemangiopericytoma, leg**

T-Y9400, M-9150/1

**Case 7:**

**Meningioma**

T-X2000, M-9530/0

**Case 8:**

**Pigmented villonodular synovitis (diffuse tenosynovial giant cell tumor), arm**

T-Y8000, M-47830

**Case 9:**

**Neuroendocrine carcinoma, probably of pancreatic origin**

T-59000, M-8010/3

**Case 10:**

**Well differentiated sclerosing liposarcoma, flank**

T-Y1310, M-88513

Escondido - Fibroma of tendon sheath  
Glendale - Fibroma of tendon sheath  
Loma Linda - Fibroma, tendon sheath  
Modesto (Yosemite Pathology Medical Group) - Fibroma of tendon sheath  
Orange (UCI Medical Center) - Fibroma of tendon sheath, palm  
Sacramento (UC Davis Medical Center) - Fibroma of tendon sheath  
San Diego (Naval Medical Center) - Palmar fibromatosis  
Arizona (Phoenix Memorial Hospital) - Fibroma of tendon sheath  
Arkansas, Little Rock - Fibroma of tendon sheath  
Colorado, Denver - Fibromatosis  
Florida (Hospital Pathologists) - Fibromatosis  
Florida (Monroe Regional Center) - Fibroma of tendon sheath  
Florida (Winter Haven Hospital) - Fibroma of tendon sheath  
Georgia, Decatur - Fibromatosis, palmar (Dupuytren's disease)  
Illinois (Marion Memorial Hospital) - Fibroma of tendon sheath  
Indiana, Fort Wayne - Collagenous fibroma (desmoplastic fibroblastoma), (L) palm  
Kansas (Coffeyville Regional Medical) - Nodular fasciitis  
Maryland (National Naval Medical Center) - Fibromatosis (3); Fibroma of tendon sheath (9)  
Maryland (NIH Pathology Residents) - Palmar fibromatosis  
Massachusetts (Brigham & Women's Hospital) - Desmoplastic fibroblastoma  
Michigan (St. Joseph Mercy Hospital) - Fibroma of tendon sheath  
Michigan (St. Mary's Mercy Hospital) - Myxoma (2)  
Michigan (Spectrum Health) - Fibroma of tendon sheath (2)  
Minnesota (United Hospital) - Benign myxoma  
Nebraska (Good Samaritan Hospital) - Fibroma  
Nebraska (University of Nebraska Medical Center) - Collagenous fibroma  
New York (IMPATL Inc.) - Palmar sclerotic fibroma  
New York (Nassau University Medical Center) - Collagenous fibroma, left palm  
New York (Westchester Medical Center) - Fibroma of tendon sheath  
Pennsylvania (Allegheny General Hospital) - Fibroma  
Pennsylvania (Conemaugh Memorial Medical Center) - Fibromatosis /left palm  
Pennsylvania (Magee Women's Hospital) - Fibroma of tendon sheath  
Texas, Houston - Fibroma of tendon sheath  
Texas, Lubbock - Fibroma  
Texas, San Antonio - Fibroma of tendon sheath  
Texas (Scott & White Memorial Hospital) - Collagenous fibroma  
Utah (St. Mark's Hospital) - Fibroma of tendon sheath  
Washington, DC - Fibroma  
Washington (Madigan Army Medical Center) - Fibroma of tendon sheath  
West Virginia (West Virginia University) - Fibroma of the tendon sheath  
Canada (CUSE, Site Fleurimont) - Fibroma of the tendon sheath  
Canada (Foothills Medical Center) - Fibroma of tendon sheath  
China (Sir Run Run Shaw Hospital) - Fibromatosis  
Japan, Chiba - Extra abdominal fibromatosis  
Japan (Hamamatsu University School of Medicine) - Palmar fibromatosis  
Japan (Self Defense Hospital) - Fibroma of the tendon sheath  
Japan (Shiga University of Medical Science) - Palmar fibromatosis  
Puerto Rico (University of Puerto Rico) - Fibromatosis  
Spain (Policlinico Vigo, S.A.) - Collagenous fibroma  
The Netherlands, Amstelveen - Fibroma of the tendon sheath

**Case 1 - Diagnosis:****Fibroma of tendon sheath, left palm**

T-Y8740, M-8810/0

**Case 1 - References:**

Dal Cin P, Sciort R, De Smet L, et al. Translocation 2;11 in a Fibroma of Tendon Sheath. *Histopathology*. 1998 May; 32(5):433-435.  
 Millon SJ, Bush DC, Garbes AD. Fibroma of Tendon Sheath in the Hand. *J Hand Surg [Am]*. 1994 Sep; 19(5):788-793.  
 Satti MB. Tendon Sheath Tumours: A Pathological Study of the Relationship Between Giant Cell Tumour and Fibroma of Tendon Sheath. *Histopathology*. 1992 Mar; 20(3):213-220.

**Case No. 2, Accession No. 28871**

**October 2002**

Escondido - Endometrial stromal sarcoma  
Glendale - Epithelioid leiomyoma  
Loma Linda - Epithelioid myoma - uterus  
Modesto (Yosemite Pathology Medical Group) - Smooth muscle tumor  
Orange (UCI Medical Center) - Epithelioid leiomyoma, uterus  
Sacramento (UC Davis Medical Center) - Epithelioid leiomyoma  
San Diego (Naval Medical Center) - Adenomatoid tumor vs. epithelioid leiomyoma  
Arizona (Phoenix Memorial Hospital) - Epithelioid leiomyoma  
Arkansas, Little Rock - Uterine epithelioid smooth muscle tumor  
Colorado, Denver - Cellular leiomyoma  
Florida (Hospital Pathologists) - Cellular leiomyoma  
Florida (Monroe Regional Center) - Endometrial stromal nodule  
Florida (Winter Haven Hospital) - Epithelioid smooth muscle tumor of uncertain malignant potential  
Georgia, Decatur - Endometrial stromal sarcoma  
Illinois (Marion Memorial Hospital) - Epithelioid leiomyoma  
Indiana, Fort Wayne - Stromal nodule with myomatous features  
Kansas (Coffeyville Regional Medical) - Low grade endometrial stromal sarcoma  
Maryland (National Naval Medical Center) - Epithelioid leiomyoma (12)  
Maryland (NIH Pathology Residents) - Epithelioid leiomyoma rule out low grade endometrial stromal sarcoma  
Massachusetts (Brigham & Women's Hospital) - Endometrial stromal tumor  
Michigan (St. Joseph Mercy Hospital) - Epithelioid leiomyoma  
Michigan (St. Mary's Mercy Hospital) - Low grade endometrial stromal sarcoma (1); Low grade stromal sarcoma (1)  
Michigan (Spectrum Health) - Epithelioid leiomyoma (1); Epithelioid leiomyoblastoma (1)  
Minnesota (United Hospital) - Low grade epithelioid leiomyosarcoma  
Nebraska (Good Samaritan Hospital) - Endometrial stromal nodule  
Nebraska (University of Nebraska Medical Center) - Low grade endometrial stromal sarcoma  
New York (IMPATL, Inc.) - Epithelioid leiomyoma  
New York (Nassau University Medical Center) - Epithelioid leiomyoma, uterus  
New York (Westchester Medical Center) - Endometrial stromal tumor vs. epithelioid smooth muscle tumor ? PEComa (perivascular epithelioid cell tumor)  
Pennsylvania (Allegheny General Hospital) - Low grade stromal sarcoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Epithelioid leiomyoma/uterus  
Pennsylvania (Magee Women's Hospital) - Epithelioid leiomyoma  
Texas, Houston - Epithelioid leiomyoma  
Texas, Lubbock - Leiomyoblastoma  
Texas, San Antonio - Endometrial stromal sarcoma LG  
Texas (Scott & White Memorial Hospital) - Epithelioid leiomyoma  
Utah (St. Mark's Hospital) - Epithelioid leiomyosarcoma  
Washington, DC - Epithelioid leiomyoma  
Washington (Madigan Army Medical Center) - Epithelioid leiomyoma  
West Virginia (West Virginia University) - Low-grade endometrial stromal sarcoma  
Canada (CUSE, Site Fleurimont) - Atypical leiomyoma  
Canada (Foothills Medical Center) - Low grade endometrial stromal sarcoma  
China (Sir Run Run Shaw Hospital) - Epithelioid leiomyoma  
Japan, Chiba - Endometrial stromal sarcoma, low grade  
Japan (Hamamatsu University School of Medicine) - Epithelioid leiomyoma  
Japan (Self Defense Hospital) - Stromal sarcoma, low grade  
Japan (Shiga University of Medical Science) - Endometrial stromal nodule  
Puerto Rico (University of Puerto Rico) - Epithelioid leiomyoma (leiomyoblastoma)  
Spain (Policlinico Vigo, S.A.) - Epithelioid leiomyoma  
The Netherlands, Amstelveen - Epithelioid leiomyoma

**Case 2 - Diagnosis:**

**Epithelioid leiomyoma, uterus**

T-85000, M-88911

**Consultation:** Drs. Kempson and Hendrickson (Stanford University) "Cellular lesion, favor epithelioid leiomyoma."

**Case 2 - References:**

Draeger A, Graf AH, Staudach A, et al. Smooth Muscle Differentiation in Human Myometrium and Uterine Leiomyoma. *Virchows Arch B Cell Pathol Incl Mol Pathol*. 1993;64(1):21-27

Prayson RA, Hart WR. Pathologic Considerations of Uterine Smooth Muscle Tumors. *Obstet Gynecol Clin North Am*. 1995 Dec; 22(4):637-657

**Case No. 3, Accession No. 29533**

**October 2002**

Escondido - Endometrioid carcinoma

Glendale - Endometrioid carcinoma

Loma Linda - Endometrioid adenocarcinoma, ovary

Modesto (Yosemite Pathology Medical Group) - Endometrioid adenocarcinoma

Orange (UCI Medical Center) - Adenocarcinoma, ovary

Sacramento (UC Davis Medical Center) - Adenocarcinoma rule out metastasis

San Diego (Naval Medical Center) - Grade II endometrioid adenocarcinoma

Arizona (Phoenix Memorial Hospital) - Metastatic adenocarcinoma, mucin-producing (Krukenberg tumor)

Arkansas, Little Rock - Endometrioid carcinoma, ovary

Colorado, Denver - Papillary serous carcinoma

Florida (Hospital Pathologists) - Adenocarcinoma, NOS

Florida (Monroe Regional Center) - Adenocarcinoma endometrioid

Florida (Winter Haven Hospital) - Papillary serous carcinoma

Georgia, Decatur - Endometrioid carcinoma

Illinois (Marion Memorial Hospital) - Endometrioid adenocarcinoma grade I

Indiana, Fort Wayne - Endometrioid carcinoma, ovary

Kansas (Coffeyville Regional Medical) - Endometrioid adenocarcinoma, ovary (grade II)

Maryland (National Naval Medical Center) - Endometrioid adenocarcinoma (I2); Surface carcinoma, poorly differentiated (1)

Maryland (NIH Pathology Residents) - Endometrioid adenocarcinoma

Massachusetts (Brigham & Women's Hospital) - Malignant mixed mesodermal tumor (predominantly endometrioid adenocarcinoma)

Michigan (St. Joseph Mercy Hospital) - Endometrioid adenocarcinoma

Michigan (St. Mary's Mercy Hospital) - Sertoli-leydig tumor (1); Sertoli-leydig cell tumor (1)

Michigan (Spectrum Health) - Endometrioid adenocarcinoma FIGO 2 (1); Adenocarcinoma of ovary, endometrioid type (1)

Minnesota (United Hospital) - Adenocarcinoma

Nebraska (Good Samaritan Hospital) - Mucinous carcinoma

Nebraska (University of Nebraska Medical Center) - Endometrioid adenocarcinoma of the ovary

New York (IMPATH, Inc.) - Endometrioid carcinoma of ovary

New York (Nassau University Medical Center) - Endometrioid adenocarcinoma, ovary

New York (Westchester Medical Center) - Metastatic adenocarcinoma to ovary - probably GI primary

Pennsylvania (Allegheny General Hospital) - Adenocarcinoma

Pennsylvania (Conemaugh Memorial Medical Center) - Endometrioid carcinoma/ovary

Pennsylvania (Magee Women's Hospital) - Mixed mullerian tumor

Texas, Houston - Endometrioid adenocarcinoma

Texas, Lubbock - Endometrioid adenocarcinoma

Texas, San Antonio - Endometrioid carcinoma

Texas (Scott & White Memorial Hospital) - Endometrioid carcinoma

Utah (St. Mark's Hospital) - Adenocarcinoma

Washington, DC - Carcinosarcoma

Washington (Madigan Army Medical Center) - Endometrioid adenocarcinoma

West Virginia (West Virginia University) - Endometrioid adenocarcinoma from fallopian tube

Canada (CUSE, Site Fleurimont) - Mucous adenocarcinoma

Canada (Foothills Medical Center) - Endometrioid adenocarcinoma of the ovary

China (Sir Run Run Shaw Hospital) - Adenocarcinoma

Japan, Chiba - Serous carcinoma of fallopian tube

Japan (Hamamatsu University School of Medicine) - Endometrioid adenocarcinoma

Japan (Self Defense Hospital) - Endometrioid adenocarcinoma

Japan (Shiga University of Medical Science) - Malignant mixed mesodermal tumor

Puerto Rico (University of Puerto Rico) - Endometrioid adenocarcinoma

Spain (Policlinico Vigo, S.A.) - Mucin-rich endometrioid adenocarcinoma vs. adult granulosa cell tumor

The Netherlands, Amstelveen - Moderately differentiated (mucinous?) adenocarcinoma

### Case 3 - Diagnosis:

#### **Endometrioid adenocarcinoma, ovary**

T-87000, M-8380/3

### Case 3 - References:

- Vercellini P, Scarfone G, Bolis G, et al. Site of Origin of Epithelial Ovarian Cancer: The Endometriosis Connection. *BJOG*. 2000 Sep; 107(9):1155-1157.
- Kempson RL, Hendrickson MR. Miscellaneous types of surface epithelial neoplasms. The well-differentiated end of the morphologic spectrum of endometrioid, clear-cell, and Brenner tumors and mixed epithelioid tumors of low malignant potential of mullerian type. *Pathology (Phila)*. 1993;1(2):335-65.
- Yonescu R, Currie JL, Hedrick L, et al. Chromosome Abnormalities in Primary Endometrioid Ovarian Carcinoma. *Cancer Genet Cytogenet*. 1996 Apr; 87(2):167-171.
- Tornos C, Silva EG, Khorana SM, et al. High-stage Endometrioid Carcinoma of the Ovary. Prognostic Significance of Pure Versus Mixed Histologic Types. *Am J Surg Pathol*. 1994 Jul; 18(7):687-693.
- McMeekin DS, Burger RA, Manetta A, et al. Endometrioid Adenocarcinoma of The Ovary and Its Relationship to Endometriosis. *Gynecol Oncol*. 1995 Oct; 59(1):81-86.

### **Case No. 4, Accession No. 27738**

**October 2002**

Escondido - Struma ovarii

Glendale - Struma carcinoid

Loma Linda - Struma ovarii

Modesto (Yosemite Pathology Medical Group) - Strumal carcinoid

Orange (UCI Medical Center) - Struma carcinoid, ovary

Sacramento (UC Davis Medical Center) - Struma ovarii and carcinoid

San Diego (Naval Medical Center) - Strumal carcinoid

Arizona (Phoenix Memorial Hospital) - Stromal carcinoid tumor

Arkansas, Little Rock - Strumal carcinoid, ovary

Colorado, Denver - Struma ovarii

Florida (Hospital Pathologists) - Ovarian strumal carcinoid

Florida (Monroe Regional Center) - Struma ovarii with focal carcinoid tumor

Florida (Winter Haven Hospital) - Strumal carcinoid

Georgia, Decatur - Strumal carcinoid

Illinois (Marion Memorial Hospital) - Struma ovarii

Indiana, Fort Wayne - Strumal carcinoid neoplasm, ovary

Kansas (Coffeyville Regional Medical) - Struma ovarii

Maryland (National Naval Medical Center) - Strumal carcinoid (6); Carcinoid tumor arising in struma ovarii (7)

Maryland (NIH Pathology Residents) - Strumal carcinoid

Massachusetts (Brigham & Women's Hospital) - Strumal carcinoid tumor

Michigan (St. Joseph Mercy Hospital) - Strumal carcinoid

Michigan (St. Mary's Mercy Hospital) - Struma ovarii (1); Strumal carcinoid (1)

Michigan (Spectrum Health) - Strumal carcinoid (1); Struma ovarii (1)

Minnesota (United Hospital) - Follicular tumor - rule out carcinoma

Nebraska (Good Samaritan Hospital) - Strumal carcinoid

Nebraska (University of Nebraska Medical Center) - Strumal carcinoid

New York (IMPAT. Inc.) - Stromal carcinoid tumor of ovary

New York (Nassau University Medical Center) - Strumal carcinoid, ovary

New York (Westchester Medical Center) - Struma carcinoid of ovary

Pennsylvania (Allegheny General Hospital) - Combined struma ovarii & carcinoid

Pennsylvania (Conemaugh Memorial Medical Center) - Struma ovarii

Pennsylvania (Magee Women's Hospital) - Struma ovarii

Texas, Houston - Struma carcinoid

Texas, Lubbock - Struma carcinoid

Texas, San Antonio - Strumal carcinoid

Texas (Scott & White Memorial Hospital) - Struma ovarii

Utah (St. Mark's Hospital) - Strumal carcinoid

Washington, DC - Strumal carcinoid

Washington (Madigan Army Medical Center) - Monodermal teratoma (struma ovarii)

West Virginia (West Virginia University) - Thyroid adenoma from struma ovarii

Canada (CUSE, Site Fleurimont) - Struma ovarii

Canada (Foothills Medical Center) - Strumal carcinoid  
China (Sir Run Run Shaw Hospital) - Strumal carcinoid  
Japan, Chiba - Strumal carcinoid tumor of ovary  
Japan (Hamamatsu University School of Medicine) - Strumal carcinoid  
Japan (Self Defense Hospital) - Strumal carcinoid  
Japan (Shiga University of Medical Science) - Struma ovarii  
Puerto Rico (University of Puerto Rico) - Strumal-carcinoid  
Spain (Policlinico Vigo, S.A.) - Struma carcinoid  
The Netherlands, Amstelveen - Struma ovarii (monodermal teratoma)

#### **Case 4 - Diagnosis:**

**Strumal carcinoid (combined struma ovarii and carcinoid), ovary**  
T-87000, M-90911

#### **Case 4 - References:**

Nicolescu PG, Tasca C, Sajin M. Histopathologic Aspects in a Case of Strumal Carcinoid (Struma Ovarii and Carcinoid). *Morphol Embryol (Bucur)*. 1990 Apr-Jun; 36(2):125-127.  
Robboy SJ, Scully RE. Strumal Carcinoid of the Ovary: An Analysis of 50 Cases of a Distinctive Tumor Composed of Thyroid Tissue and Carcinoid. *Cancer*. 1980 Nov 1; 46(9):2019-2034.  
Takemori M, Nishimura R, Sugimura K, et al. Ovarian Strumal Carcinoid with Markedly High Serum Levels of Tumor Markers. *Gynecol Oncol*. 1995 Aug; 58(2):266-269.  
Greco MA, LiVolsi VA, Pertschuk LP, et al. Strumal Carcinoid of the Ovary: An Analysis of its Components. *Cancer*. 1979 Apr; 43(4):1380-1388.  
Snyder RR, Tavassoli FA. Ovarian strumal carcinoid: immunohistochemical, ultrastructural, and clinicopathologic observations. *Int J Gynecol Pathol*. 1986; 5(3):187-201.

#### **Case No. 5, Accession No. 29537**

**October 2002**

Escondido - Embryonal carcinoma with syncytiotrophoblasts  
Glendale - Non-seminomatous germ cell tumor – choriocarcinoma, embryonal carcinoma  
Loma Linda - Seminoma with trophoblastic elements  
Modesto (Yosemite Pathology Medical Group) - Embryonal carcinoma  
Orange (UCI Medical Center) - Malignant mixed germ cell tumor  
Sacramento (UC Davis Medical Center) - Mixed germ cell tumor  
San Diego (Naval Medical Center) - Mixed germ cell neoplasia with embryonal, teratoma, choriocarcinoma and YST (yolk sac tumor)  
Arizona (Phoenix Memorial Hospital) - Mixed germ cell neoplasm (predominantly embryonal carcinoma, 2<sup>nd</sup> component of choriocarcinoma)  
Arkansas, Little Rock - Mixed germ cell tumor (choriocarcinoma + embryonal carcinoma) + immature teratoma  
Colorado, Denver - Choriocarcinoma  
Florida (Hospital Pathologists) - Mixed germ cell tumor with choriocarcinoma  
Florida (Monroe Regional Center) - Mixed germ cell tumor with choriocarcinoma & embryonal carcinoma  
Florida (Winter Haven Hospital) - Choriocarcinoma with embryonal carcinoma  
Georgia, Decatur - Mixed germ cell tumor with choriocarcinoma & embryonal carcinoma and associated intratubular germ cell neoplasia  
Illinois (Marion Memorial Hospital) - Embryonal carcinoma with syncytiotrophoblasts  
Indiana, Fort Wayne - Mixed germ cell neoplasm of testis embryonal, intratubular embryonal/yolk sac areas/choriocarcinoma  
Kansas (Coffeyville Regional Medical) - Embryonal carcinoma with choriocarcinoma component  
Maryland (National Naval Medical Center) - Malignant mixed germ cell tumor (13)  
Maryland (NIH Pathology Residents) - Mixed germ cell: mixed teratoid, embryonal and choriocarcinoma  
Massachusetts (Brigham & Women's Hospital) - Choriocarcinoma  
Michigan (St. Joseph Mercy Hospital) - Mixed germ cell tumor with features of choriocarcinoma and embryonal carcinoma  
Michigan (St. Mary's Mercy Hospital) - Embryonal carcinoma plus choriocarcinoma (1); Embryonal carcinoma (1)  
Michigan (Spectrum Health) - Embryonal carcinoma (1); Teratoma with mixed non-seminomatous germ cell tumor (embryonal carcinoma, choriocarcinoma, yolk sac tumor) (1)  
Minnesota (United Hospital) - Choriocarcinoma  
Nebraska (Good Samaritan Hospital) - Mixed germ cell tumor  
Nebraska (University of Nebraska Medical Center) - Malignant mixed germ cell tumor (embryonal carcinoma, choriocarcinoma, and mature teratoma)  
New York (IMPATh, Inc.) - Choriocarcinoma/embryonal carcinoma of testis  
New York (Nassau University Medical Center) - Malignant mixed germ cell tumor, testicle

New York (Westchester Medical Center) - Mixed germ cell tumor probably arising in a teratoma  
Pennsylvania (Allegheny General Hospital) - Mixed germ cell tumor – chorio & embryonal  
Pennsylvania (Conemaugh Memorial Medical Center) - Mixed germ cell tumor? embryonal carcinoma  
Pennsylvania (Magee Women's Hospital) - Teratocarcinoma – embryonal/syncytiotrophoblast  
Texas, Houston - Malignant mixed germ cell tumor  
Texas, Lubbock - Mixed non-seminomatous germ cell tumor: 60% embryonal carcinoma; 20% choriocarcinoma; 20% teratoma  
Texas, San Antonio - Mixed GCT (germ cell tumor)  
Texas (Scott & White Memorial Hospital) - Non seminomatous germ cell tumor with choriocarcinoma  
Utah (St. Mark's Hospital) - Mixed non-seminomatous germ cell tumor  
Washington, DC - Embryonal carcinoma  
Washington (Madigan Army Medical Center) - Malignant germ cell tumor, favor seminoma (anaplastic)  
West Virginia (West Virginia University) - Malignant mixed germ cell tumor  
Canada (CUSE, Site Fleurimont) - Choriocarcinoma  
Canada (Foothills Medical Center) - Nonseminomatous germ cell tumor, embryonal carcinoma  
China (Sir Run Run Shaw Hospital) - Mixed germ cell tumor (embryonal carcinoma and choriocarcinoma)  
Japan, Chiba - Embryonal carcinoma of testis  
Japan (Hamamatsu University School of Medicine) - Mixed germ cell, embryonal carcinoma + choriocarcinoma  
Japan (Self Defense Hospital) - Nonseminomatous germ cell tumor (embryonal carcinoma, choriocarcinoma)  
Japan (Shiga University of Medical Science) - Mixed germ cell tumor  
Puerto Rico (University of Puerto Rico) - Germ cell tumor: choriocarcinoma/embryonal carcinoma?  
Spain (Policlinico Vigo, S.A.) - Choriocarcinoma + embryonal carcinoma + teratoma  
The Netherlands, Amstelveen - Non-seminomatous germ cell tumor: embryonal carcinoma with syncytiotrophoblastic cells and intratubular germ cell neoplasia unspecified

#### **Case 5 - Diagnosis:**

**Mixed germ cell tumor (embryonal carcinoma and seminoma) with syncytial trophoblastic elements, testis**

T-78000, M-90613

#### **Case 5 - References:**

Lee AH, Mead GM, Theaker JM. The value of central histopathological review of testicular tumours before treatment. *BJU Int.* 1999 Jul; 84(1):75-78.  
 Baldet P. [Germ Cell Tumors of Testis, Current Concepts] *Ann Pathol.* 2001 Oct; 21(5):399-410.  
 Yuasa T, Yoshiki T, Ogawa O, et al. Detection of Alpha-Fetoprotein mRNA in Seminoma. *J Androl.* 1999 May-Jun; 20(3):336-340.  
 Ro JY, Amato RJ, Ayala AG. What Does the Pathology Report Really Mean? *Semin Urol Oncol.* 1996 Feb; 14(1):2-7.  
 Rhomberg W, Schmoll HJ, Schneider B. High Frequency of Metalworkers Among Patients with Seminomatous Tumors of the Testis: A Case-Control Study. *Am J Ind Med.* 1995 Jul; 28(1):79-87.  
 Yuasa T, Okamoto K, Kawakami T, et al. Expression Patterns of Cancer Testis Antigens in Testicular Germ Cell Tumors and Adjacent Testicular Tissue. *J Urol.* 2001 May; 165(5):1790-1794.

#### **Case No. 6, Accession No. 29238**

**October 2002**

Escondido - Synovial sarcoma  
Glendale - Synovial sarcoma  
Loma Linda - Fully malignant tumor – (hemangiopericytoma)  
Modesto (Yosemite Pathology Medical Group) - Clear cell carcinoma  
Orange (UCI Medical Center) - Synovial sarcoma, knee  
Sacramento (UC Davis Medical Center) - High grade sarcoma, synovial sarcoma vs. leiomyosarcoma  
San Diego (Naval Medical Center) - Biphasic synovial sarcoma  
Arizona (Phoenix Memorial Hospital) - Synovial sarcoma, biphasic  
Arkansas, Little Rock - Synovial sarcoma  
Colorado, Denver - Rhabdomyosarcoma  
Florida (Hospital Pathologists) - Fibrous synovial sarcoma, monophasic  
Florida (Monroe Regional Center) - Synovial sarcoma  
Florida (Winter Haven Hospital) - Malignant hemangiopericytoma  
Georgia, Decatur - Synovial sarcoma, biphasic type  
Illinois (Marion Memorial Hospital) - Monophasic synovial sarcoma  
Indiana, Fort Wayne - Round cell sarcoma – probable monophasic synovial sarcoma  
Kansas (Coffeyville Regional Medical) - Synovial sarcoma  
Maryland (National Naval Medical Center) - Synovial sarcoma (13)  
Maryland (NIH Pathology Residents) - Synovial sarcoma, biphasic

Massachusetts (Brigham & Women's Hospital) - Poorly differentiated synovial sarcoma  
Michigan (St. Joseph Mercy Hospital) - Synovial sarcoma  
Michigan (St. Mary's Mercy Hospital) - Hemangiopericytoma (1); Synovial sarcoma (1)  
Michigan (Spectrum Health) - Synovial sarcoma(2)  
Minnesota (United Hospital) - Synovial sarcoma  
Nebraska (Good Samaritan Hospital) - Synovial sarcoma  
Nebraska (University of Nebraska Medical Center) - Synovial sarcoma, monophasic  
New York (IMPATH. Inc.) - Synovial sarcoma  
New York (Nassau University Medical Center) - Monophasic synovial sarcoma, leg  
New York (Westchester Medical Center) - Monophasic synovial sarcoma  
Pennsylvania (Allegheny General Hospital) - Poorly differentiated synovial sarcoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Sarcoma favor monophasic synovial/Ewing? fibrosarcoma  
Pennsylvania (Magee Women's Hospital) - Synovial sarcoma  
Texas, Houston - Synovial sarcoma  
Texas, Lubbock - Synoviosarcoma  
Texas, San Antonio - HG sarcoma, possibly synovial sarcoma  
Texas (Scott & White Memorial Hospital) - Monophasic synovial sarcoma  
Utah (St. Mark's Hospital) - Synovial sarcoma  
Washington, DC - Synovial sarcoma  
Washington (Madigan Army Medical Center) - Synovial sarcoma  
West Virginia (West Virginia University) - Synovial sarcoma - monophasic  
Canada (CUSE, Site Fleurimont) - MPNET (Malignant peripheral neuroectodermal tumor)  
Canada (Foothills Medical Center) - Synovial sarcoma  
China (Sir Run Run Shaw Hospital) - Malignant hemangiopericytoma/synovial sarcoma  
Japan, Chiba - Hemangiopericytoma  
Japan (Hamamatsu University School of Medicine) - Synovial sarcoma  
Japan (Self Defense Hospital) - Synovial carcinoma  
Japan (Shiga University of Medical Science) - Synovial sarcoma  
Puerto Rico (University of Puerto Rico) - Synovial sarcoma  
Spain (Policlinico Vigo, S.A.) - Synovial sarcoma  
The Netherlands, Amstelveen - Synoviosarcoma

#### **Case 6 - Diagnosis:**

##### **Hemangiopericytoma, leg**

Director's note: Our apologies for not including the immunostains in the history. This tumor was positive for CD34, and failed to stain for cytokeratin. (drc)

T-Y9400, M-9150/1

#### **Case 6 - References:**

- Calvo Cascallo J, Mundi Salvado N, Cardona Fontanet M, et al. [Hemangiopericytoma of the Thigh. Report of a Case] *Angiologia*. 1993 May-Jun; 45(3):103-106.
- Kato N, Kato S, Ueno H. Hemangiopericytoma: Characteristic Features Observed by Magnetic Resonance Imaging and Angiography. *J Dermatol*. 1990 Nov; 17(11):701-706.
- Filippova NA. [Electron Microscopy in the Diagnosis of Soft Tissue Angiogenic Tumors]. *Ark Patol*. 1985; 47(9):60-67.
- Compagno J. Hemangiopericytoma-Like Tumors of the Nasal Cavity: A Comparison with Hemangiopericytoma of Soft Tissues. *Laryngoscope*. 1978 Mar; 88(3):460-469.
- McMaster MJ, Soule EH, Ivins JC. Hemangiopericytoma. A clinicopathologic study and long-term followup of 60 patients. *Cancer*. 1975 Dec; 36(6):2232-2244

#### **Case No. 7, Accession No. 27399**

**October 2002**

Escondido - Meningioma  
Glendale - Atypical meningioma  
Loma Linda - Meningioma  
Modesto (Yosemite Pathology Medical Group) - Meningioma  
Orange (UCI Medical Center) - Meningioma, dura  
Sacramento (UC Davis Medical Center) - Meningioma  
San Diego (Naval Medical Center) - Atypical meningioma  
Arizona (Phoenix Memorial Hospital) - Meningioma  
Arkansas, Little Rock - Meningioma  
Colorado, Denver - Meningioma

Florida (Hospital Pathologists) - Meningioma  
Florida (Monroe Regional Center) - Schwannoma  
Florida (Winter Haven Hospital) - Atypical meningiothelial meningioma  
Georgia, Decatur - Meningioma, transitional type  
Illinois (Marion Memorial Hospital) - Atypical meningioma  
Indiana, Fort Wayne - Meningioma, (L) temporoparietal area  
Kansas (Coffeyville Regional Medical) - Meningiothelial meningioma  
Maryland (National Naval Medical Center) - Meningioma (13)  
Maryland (NIH Pathology Residents) - Meningiothelial meningioma  
Massachusetts (Brigham & Women's Hospital) - Meningioma  
Michigan (St. Joseph Mercy Hospital) - Meningioma  
Michigan (St. Mary's Mercy Hospital) - Meningioma (2)  
Michigan (Spectrum Health) - Meningioma (2)  
Minnesota (United Hospital) - Meningioma  
Nebraska (Good Samaritan Hospital) - Meningioma  
Nebraska (University of Nebraska Medical Center) - Atypical meningioma (grade II)  
New York (IMPATH, Inc.) - Meningiothelial meningioma  
New York (Nassau University Medical Center) - Meningiothelial meningioma, dura  
New York (Westchester Medical Center) - Meningioma  
Pennsylvania (Allegheny General Hospital) - Meningioma  
Pennsylvania (Conemaugh Memorial Medical Center) - Atypical meningioma  
Pennsylvania (Magee Women's Hospital) - Meningioma  
Texas, Houston - Meningioma  
Texas, Lubbock - Meningiotheliomatous meningioma  
Texas, San Antonio - Meningioma, atypical  
Texas (Scott & White Memorial Hospital) - Meningioma  
Utah (St. Mark's Hospital) - Meningioma  
Washington, DC - Meningioma  
Washington (Madigan Army Medical Center) - Meningioma  
West Virginia (West Virginia University) - Atypical meningioma  
Canada (CUSE, Site Fleurimont) - Meningioma  
Canada (Foothills Medical Center) - Meningioma, transitional type  
China (Sir Run Run Shaw Hospital) - Meningioma  
Japan, Chiba - Malignant meningioma, meningiotheliomatous type  
Japan (Hamamatsu University School of Medicine) - Meningioma  
Japan (Self Defense Hospital) - Atypical meningioma  
Japan (Shiga University of Medical Science) - Meningioma  
Puerto Rico (University of Puerto Rico) - Atypical meningioma (WHO grade II)  
Spain (Policlinico Vigo, S.A.) - Atypical meningioma  
The Netherlands, Amstelveen - Meningiothelial meningioma

#### **Case 7 - Diagnosis:**

##### **Meningioma**

T-X2000, M-9530/0

#### **Case 7 - References:**

- Konstantinidou A, Korkolopoulou P, Patsouris E, et al. Apoptosis Detected with Monoclonal Antibody to Single-Stranded DNA is a Predictor of Recurrence in Intracranial Meningiomas. *J Neurooncol.* 2001 Oct; 55(1):1-9.
- Stafford SL, Pollock BE, Foote RL, et al. Meningioma Radiosurgery: Tumor Control, Outcomes, and Complications Among 190 Consecutive Patients. *Neurosurgery.* 2001 Nov; 49(5):1029-1037; discussion 1037-1038.
- Simon M, Park TW, Koster G, et al. Alterations of INK4a(p16-p14ARF)/INK4b(p15) Expression and Telomerase Activation in Meningioma Progression. *J Neurooncol.* 2001 Dec; 55(3):149-158.
- Russ E, Castillo M. ATypical Meningioma Spreading Via the Perivascular Spaces. *AJR Am J Roentgenol.* 2002 Mar; 178(3):768-769.
- Prayson RA, Chowdhary S, Woodhouse S, et al. Collision of a Syncytial Meningioma and Malignant Astrocytoma. *Ann Diagn Pathol.* 2002 Feb; 6(1):44-48.

Escondido - Xanthogranuloma  
Glendale - PVNS (Pigmented villonodular synovitis)  
Loma Linda - Fibrohistiocytoma (villonodular synovitis)  
Modesto (Yosemite Pathology Medical Group) - Liposarcoma  
Orange (UCI Medical Center) - Localized giant cell tumor of tendon sheath  
Sacramento (UC Davis Medical Center) - Tendinous xanthoma  
San Diego (Naval Medical Center) - Fibrohistiocytic tumor, favor benign  
Arizona (Phoenix Memorial Hospital) - Xanthomatous fibrous histiocytoma  
Arkansas, Little Rock - Inflammatory myofibroblastic tumor  
Colorado, Denver - Xanthogranuloma  
Florida (Hospital Pathologists) - Fibrous histiocytoma (giant cell tumor) of tendon sheath  
Florida (Monroe Regional Center) - Fibrous histiocytoma  
Florida (Winter Haven Hospital) - Xanthogranulomatous inflammation, rule out infection  
Georgia, Decatur - Tenosynovial giant cell tumor  
Illinois (Marion Memorial Hospital) - Fibrous histiocytoma  
Indiana, Fort Wayne - Deep fibrous histiocytoma of soft tissue  
Kansas (Coffeyville Regional Medical) - Nodular fasciitis with fat necrosis  
Maryland (National Naval Medical Center) - Tuberous xanthoma (3); Inflammatory pseudotumor (1); Inflammatory MFH (malignant fibrous histiocytoma) (2)  
Maryland (NIH Pathology Residents) - Diffuse giant cell tumor of tendon sheath  
Massachusetts (Brigham & Women's Hospital) - Deep fibrous histiocytoma  
Michigan (St. Joseph Mercy Hospital) - Fibrous histiocytoma (2), Inflammatory myofibroblastic tumor (1)  
Michigan (St. Mary's Mercy Hospital) - Tenosynovial giant cell tumor (1); Diffuse giant cell tumor of tendon sheath (1)  
Michigan (Spectrum Health) - Malignant melanoma of soft part (1); Malignant fibrous histiocytoma (1)  
Minnesota (United Hospital) - Low grade malignant fibrous histiocytoma  
Nebraska (Good Samaritan Hospital) - Deep fibrous histiocytoma  
Nebraska (University of Nebraska Medical Center) - Benign fibrous histiocytoma  
New York (IMPATH, Inc.) - Deep benign fibrous histiocytoma vs. ? schwannoma  
New York (Nassau University Medical Center) - Xanthoma, left arm  
New York (Westchester Medical Center) - Giant cell tumor of tendon sheath  
Pennsylvania (Allegheny General Hospital) - Atypical fibrous histiocytoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Fibrous histiocytoma  
Pennsylvania (Magee Women's Hospital) - Xanthoma of tendon sheath  
Texas, Houston - Deep fibrous histiocytoma  
Texas, Lubbock - Fibrous histiocytoma  
Texas, San Antonio - Tenosynovial GCT (giant cell tumor)  
Texas (Scott & White Memorial Hospital) - Cellular tenosynovial giant cell tumor  
Utah (St. Mark's Hospital) - Fibrous histiocytoma  
Washington, DC - Pigmented villonodular synovitis  
Washington (Madigan Army Medical Center) - Round cell liposarcoma  
West Virginia (West Virginia University) - Benign fibrous histiocytoma  
Canada (CUSE, Site Fleurimont) - MFH (malignant fibrous histiocytoma) inflammatory type  
Canada (Foothills Medical Center) - Giant cell tumor of tendon sheath  
China (Sir Run Run Shaw Hospital) - Fibrous histiocytoma  
Japan, Chiba - Fibrous histiocytoma  
Japan (Hamamatsu University School of Medicine) - Benign fibrous histiocytoma  
Japan (Self Defense Hospital) - Xanthogranulomatous malignant fibrous histiocytoma  
Japan (Shiga University of Medical Science) - Inflammatory myofibroblastic tumor  
Puerto Rico (University of Puerto Rico) - Benign fibrous histiocytoma/pigmented villonodular synovitis  
Spain (Policlinico Vigo, S.A.) - Xanthomatous malignant fibrous histiocytoma vs. giant cell tumor of tendon sheath  
The Netherlands, Amstelveen - Malignant melanoma (metastatic)

**Case 8 - Diagnosis:**

**Pigmented villonodular synovitis (diffuse tenosynovial giant cell tumor), arm**  
 T-Y8000, M-47830

Consultation: Dr. Sharon Weiss (Emory University), "Tenosynovial giant cell tumor."

**Case 8 - References:**

Granowitz SP, D'Antonio J, Mankin HL. The Pathogenesis and Long-term End Results of Pigmented Villonodular Synovitis. *Clin Orthop.* 1976 Jan-Feb; (114):335-351.

- Arthaud JB. Pigmented Nodular Synovitis: Report of 11 Lesions in Non-Articular Locations. *Am J Clin Pathol.* 1972 Nov; 58(5):511-517.
- Galinski AW, Vlahos MV. Pigmented Villonodular Synovitis in Podiatric Medicine. *J Am Podiatry Assoc.* 1976 JUL; 66(7):471-476.
- Adamson BE, Lucas GL. Multiple Recurrence of Digital Pigmented Villonodular Tenosynovitis: A Case Report. *J Hand Surg [Am].* 1985 Mar; 10(2):278-280.

### Case No. 9, Accession No. 29478

October 2002

- Escondido - Pancreatic endocrine carcinoma
- Glendale - Pancreatic endocrine tumor
- Loma Linda - Carcinoid
- Modesto (Yosemite Pathology Medical Group) - Carcinoid
- Orange (UCI Medical Center) - Islet cell tumor
- Sacramento (JC Davis Medical Center) - Pancreatic neuroendocrine tumor
- San Diego (Naval Medical Center) - Paraganglioma
- Arizona (Phoenix Memorial Hospital) - Malignant paraganglioma
- Arkansas, Little Rock - Pancreatic endocrine cell neoplasm
- Colorado, Denver - Carcinoid
- Florida (Hospital Pathologists) - Neuroendocrine carcinoma
- Florida (Monroe Regional Center) - Paraganglioma
- Florida (Winter Haven Hospital) - Extra-adrenal paraganglioma
- Georgia, Decatur - Neuroendocrine carcinoma, ?malignant paraganglioma
- Illinois (Marion Memorial Hospital) - Pheochromocytoma
- Indiana, Fort Wayne - Carcinoid neoplasm
- Kansas (Coffeyville Regional Medical) - Paraganglioma
- Maryland (National Naval Medical Center) - Paraganglioma (10); Neuroendocrine carcinoma (2)
- Massachusetts (Brigham & Women's Hospital) - Neuroendocrine carcinoma
- Michigan (St. Joseph Mercy Hospital) - Pheochromocytoma (2); Islet cell tumor (1)
- Michigan (St. Mary's Mercy Hospital) - Paraganglioma (2)
- Michigan (Spectrum Health) - Pancreatic endocrine tumor (1); Neuroendocrine carcinoma (1)
- Minnesota (United Hospital) - Acinar vs. pancreatic islet cell tumor
- Nebraska (Good Samaritan Hospital) - Extra-adrenal intrabdominal paraganglioma
- Nebraska (University of Nebraska Medical Center) - Neuroendocrine tumor of the pancreas
- New York (IMPATH, Inc.) - Islet cell tumor of the pancreas
- New York (Nassau University Medical Center) - Malignant paraganglioma, retroperitoneum
- New York (Westchester Medical Center) - Neuroendocrine carcinoma of pancreas
- Pennsylvania (Allegheny General Hospital) - Neuroendocrine neoplasm
- Pennsylvania (Conemaugh Memorial Medical Center) - Malignant neuroendocrine tumor/paraganglioma
- Pennsylvania (Magee Women's Hospital) - Neuroendocrine carcinoma - islet cell
- Texas, Houston - Paraganglioma
- Texas, Lubbock - Islet cell tumor
- Texas, San Antonio - Neuroendocrine carcinoma
- Texas (Scott & White Memorial Hospital) - Neuroendocrine carcinoma
- Utah (St. Mark's Hospital) - Malignant endocrine tumor, NOS
- Washington, DC - Pancreatic endocrine tumor
- Washington (Madigan Army Medical Center) - Paraganglioma, malignant
- West Virginia (West Virginia University) - Extrarenal paraganglioma
- Canada (CUSE, Site Fleurimont) - Paraganglioma
- Canada (Foothills Medical Center) - Pancreatic endocrine neoplasm
- China (Sir Run Run Shaw Hospital) - Malignant paraganglioma
- Japan, Chiba - Paraganglioma
- Japan (Hamamatsu University School of Medicine) - Endocrine carcinoma, intermediate
- Japan (Self Defense Hospital) - Paraganglioma
- Japan (Shiga University of Medical Science) - Paraganglioma malignant
- Puerto Rico (University of Puerto Rico) - Malignant paraganglioma
- Spain (Policlinico Vigo, S.A.) - Malignant carcinoid vs. neuroendocrine tumor
- The Netherlands, Amstelveen - Endocrine carcinoma from the pancreas

## Case 9 - Diagnosis:

### **Neuroendocrine carcinoma, probably of pancreatic origin**

T-59000, M-8010/3

## Case 9 - References:

- Hainsworth JD, Johnson DH, Greco FA. Poorly Differentiated Neuroendocrine Carcinoma of Unknown Primary Site. A Newly Recognized Clinicopathologic Entity. *Ann Intern Med.* 1988 Sep 1; 109(5):364-371.
- Kulaksiz H, Eissele R, Rossler D, et al. Identification of Somatostatin Receptor Subtypes 1, 2A, 3, and 5 in Neuroendocrine Tumours with Subtype Specific Antibodies. *Gut.* 2002 Jan; 50(1):52-60.
- Owen NJ, Sohaib SA, Peppercorn PD, et al. MRI of Pancreatic Neuroendocrine Tumours. *Br J Radiol.* 2001 Oct; 74(886):968-973.
- Mullan MH, Gauger PG, Thompson NW. Endocrine Tumours of the Pancreas: Review and Recent Advances. *Aust N Z J Surg.* 2001 Aug; 71(8):475-482.

## **Case No. 10, Accession No. 29542**

October 2002

Escondido - Liposarcoma

Glendale - Well-differentiated liposarcoma

Loma Linda - Low grade myxoliposarcoma vs. benign myofibrolioma

Modesto (Yosemite Pathology Medical Group) - Sclerosing liposarcoma

Orange (UCI Medical Center) - Well-differentiated liposarcoma, left flank

Sacramento (UC Davis Medical Center) - Well-differentiated liposarcoma

San Diego (Naval Medical Center) - Sclerosing liposarcoma

Arizona (Phoenix Memorial Hospital) - Liposarcoma, myxoid and sclerosing, well-differentiated

Arkansas, Little Rock - Well differentiated liposarcoma

Colorado, Denver - Myxoid liposarcoma

Florida (Hospital Pathologists) - Myxoid liposarcoma

Florida (Monroe Regional Center) - Well differentiated liposarcoma

Florida (Winter Haven Hospital) - Atypical lipoma

Georgia, Decatur - Well differentiated liposarcoma

Illinois (Marion Memorial Hospital) - Atypical lipomatous tumor

Indiana, Fort Wayne - Well differentiated myxoid liposarcoma

Kansas (Coffeyville Regional Medical) - Atypical lipomatous tumor

Maryland (National Naval Medical Center) - Spindle cell lipoma (13)

Maryland (NIH Pathology Residents) - Liposarcoma, well differentiated

Massachusetts (Brigham & Women's Hospital) - Atypical lipomatous tumor

Michigan (St. Joseph Mercy Hospital) - Well differentiated liposarcoma

Michigan (St. Mary's Mercy Hospital) - Chondroid lipoma (2)

Michigan (Spectrum Health) - Myxoid liposarcoma (1); Liposarcoma, lipoma-like (1)

Minnesota (United Hospital) - Liposarcoma

Nebraska (Good Samaritan Hospital) - Well differentiated liposarcoma

Nebraska (University of Nebraska Medical Center) - Well differentiated liposarcoma, sclerosing variant

New York (IMPATH. Inc.) - Well differentiated sclerosing liposarcoma

New York (Nassau University Medical Center) - Myxoid liposarcoma, flank

New York (Westchester Medical Center) - Myxoliposarcoma

Pennsylvania (Allegheny General Hospital) - Sclerosing well differentiated liposarcoma

Pennsylvania (Conemaugh Memorial Medical Center) - Well differentiated liposarcoma/atypical lipoma/myomatous liposarcoma

Pennsylvania (Magee Women's Hospital) - Atypical lipoma

Texas, Houston - Atypical lipoma

Texas, Lubbock - Myxoid liposarcoma

Texas, San Antonio - Liposarcoma, well differentiated

Texas (Scott & White Memorial Hospital) - Sclerosing well differentiated liposarcoma

Utah (St. Mark's Hospital) - Atypical angiomyxolipoma

Washington, DC - Myxoid liposarcoma

Washington (Madigan Army Medical Center) - Myxoid liposarcoma

West Virginia (West Virginia University) - Low-grade liposarcoma

Canada (CUSE, Site Fleurimont) - Myxoid lipoma

Canada (Foothills Medical Center) - Liposarcoma, well differentiated

China (Sir Run Kun Shaw Hospital) - Lipoma-like liposarcoma

Japan, Chiba - Atypical lipomatous tumor

Japan (Hamamatsu University School of Medicine) - Pleomorphic lipoma

Japan (Self Defense Hospital) - Liposarcoma, (sclerosing type)

Japan (Shiga University of Medical Science) - Spindle cell lipoma  
Puerto Rico (University of Puerto Rico) - Inflammatory pseudotumor /well differentiated liposarcoma  
Spain (Policlinico Vigo, S.A.) - Pleomorphic lipoma vs. spindle cell lipoma  
The Netherlands, Amstelveen - Lipomatous tumor (atypical lipoma)

**Case 10 - Diagnosis:**

**Well differentiated sclerosing liposarcoma, flank**  
T-Y1310, M-88513

**Case 10 - References:**

Yang YJ, Damron TA, Cohen H, et al. Distinction of Well-Differentiated Liposarcoma from Lipoma in Two Patients with Multiple Well-Differentiated Fatty Masses. *Skeletal Radiol.* 2001 Oct; 30(10):584-589.  
Laurino L, Furlanetto A, Orvieto E, et al. Well-Differentiated Liposarcoma (Atypical Lipomatous Tumors). *Semin Diagn Pathol.* 2001 Nov; 18(4):258-262.  
Meis-Kindblom JM, Sjogren H, Kindblom LG, et al. Cytogenetic and Molecular Genetic Analyses of Liposarcoma and Its Soft Tissue Simulators: Recognition of New Variants and Differential Diagnosis. *Virchows Arch.* 2001 Aug; 439(2):141-151.  
Pilotti S, Della Torre G, Mezzelani A, et al. The Expression of MDM2/CDK4 Gene Product in the Differential Diagnosis of Well Differentiated Liposarcoma and Large Deep-Seated Lipoma. *Br J Cancer.* 2000 Apr; 82(7):1271-1275.