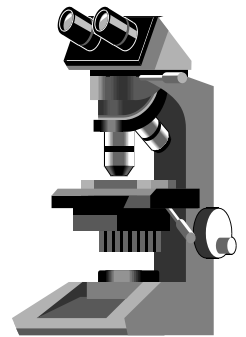


CALIFORNIA  
TUMOR TISSUE REGISTRY

“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.

California Tumor Tissue Registry  
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Web site & Case of the Month: [www.cttr.org](http://www.cttr.org)

## **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

**Case No. 1, Accession No. 29462****October 2002**

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 (IMPATH. 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 (IMPATH. 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 (12); 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 (IMPATH. 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.

**Case No. 8, Accession No. 29483****October 2002**

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 (UC 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 Run 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.