



CALIFORNIA
TUMOR TISSUE REGISTRY

“GENERAL PATHOLOGY”

Minutes – Subscription B

April, 2003



SUGGESTED READING (General Topics from Recent Literature):

Pathological and Physiological Double-Strand Breaks: Roles in Cancer, Aging, and the Immune System. Lieber MR, Warner-Lambert/Parke-Davis Award Lecture. *Ann Pathol*, 1998; 153:1323-32.

Clinical Symptoms and Co-Morbidity: Significance for Prognostic Classification of Cancer. Piccirillo JF, Feinstein AR, *Cancer*, 1996 Mar; 77(5):834-42. Review.

Fourteen-Gauge Needle Core Biopsy of Mammographically Evident Radial Scars: Is Excision Necessary? Cawson JN, Malara F, et al. *Cancer*, 2003; 97(1):345-51.

Lobular Carcinoma In-Situ Diagnosed By Core Needle Biopsy: When Should It Be Excised? Middleton LP, Grant S, et al. *Mod Pathol*, 2003; 16(2):120-29.

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FILE DIAGNOSES

CTTR Subscription B

April, 2003

Case 1:

**Low grade phyllodes tumor, breast
T-04000, M-90201**

Case 2:

**Meningioma, scalp
T-Y0160, M-95303**

Case 3:

**Malignant Mixed Mullerian Tumor (Carcinosarcoma, heterologous), uterus
T-82000, M-89503**

Case 4:

**Adenocarcinoma (NOS), Parotid gland
T-55100, M-81403**

Case 5:

**Papillary carcinoma with tall cell features ("tall cell variant"), thyroid
T-96000, M-80503**

Case 6:

**Gastrointestinal stromal tumor
T-63000, M-88903**

Case 7:

**Intra-abdominal fibromatosis ("Intra-abdominal desmoid tumor")
T-Y4100, M-76100**

Case 8:

**Myxoid liposarcoma, thigh
T-Y9100, M-88523**

Case 9:

**Lipoleiomyosarcoma, inguinal region
T-Y7000, M-88903**

Case 10:

**High grade pleomorphic sarcoma with phenotype known as storiform pleomorphic malignant
fibrous histiocytoma (MFH), back
T-Y1100, M-88023**

Escondido - Phyllodes tumor
Glendale (Glendale Pathology Association) - Low-grade phyllodes tumor
Loma Linda - Phyllodes tumor
Sacramento (UC Davis Medical Center) - Phyllodes tumor
San Diego (Naval Medical Center) - Phyllodes tumor
Arizona (Phoenix Memorial Hospital) - Phyllodes tumor, malignant
Arkansas (University of Arkansas Medical Center) - Phyllodes tumor of borderline malignant potential
Arkansas, Little Rock - Phyllodes tumor
Colorado, Denver - Fibroadenoma
Florida (Winter Haven Hospital) - Phyllodes tumor, benign
Florida, Miami - Fibroadenoma (2)
Florida, Ocala - Phyllodes tumor
Georgia, Decatur - Cystosarcoma Phyllodes
Illinois (Heartland Regional Medical Center) - Phyllodes tumor, benign
Illinois (Sarah Bush Lincoln Health Center) - Benign phyllodes tumor
Indiana, Fort Wayne - Phyllodes tumor of breast
Louisiana (Louisiana State University Health Science Center) - Low grade Phyllodes tumor
Louisiana, Metairie - Phyllodes tumor
Maryland (National Naval Medical Center) - Phyllodes tumor, high grade (malignant) - 9, borderline - 2
Maryland (University of Maryland Medical Center) - Low grade phyllodes tumor
Michigan (Henry Ford Hospital) - Phyllodes tumor with pseudo-angiomatous stromal hyperplasia
Michigan (St. Joseph Mercy Hospital) - Phyllodes tumor, malignant
Michigan, Grand Rapids - Phyllodes tumor
Nebraska (Good Samaritan Hospital) - Phyllodes tumor
Nevada, Las Vegas - Malignant phyllodes
New Mexico (University of New Mexico) - Phyllodes, low grade malignant/borderline
New York (Nassau University Medical Center) - Malignant Phyllodes tumor, breast
New York (Westchester Medical Center) - Cystosarcoma Phyllodes, low grade
Ohio (Medical College of Ohio) - Phyllodes tumor, borderline malignant potential
Pennsylvania (Allegheny General Hospital) - Phyllodes tumor
Pennsylvania (Memorial Medical Center) - Malignant Phyllodes
Pennsylvania (Magee Women's Hospital) - High grade malignant Phyllodes tumor
Pennsylvania (Shadyside Hospital) - Benign Phyllodes tumor of breast
Pennsylvania, Pittsburgh - Cystosarcoma, low grade
Texas (Scott & White Hospital) - Phyllodes tumor
Texas, Houston - Phyllodes tumor, borderline malignancy, breast
Texas, Lubbock - Malignant Phyllodes tumor
Texas, San Antonio - Phyllodes tumor, benign
Utah (University of Utah, Residents) - Malignant Phyllodes tumor
Washington, D.C. - Phyllodes tumor
Canada (CUSE, Site Fleurimont) - Phyllodes tumor
Canada (University of Calgary, Foothills Hospital) - Phyllodes tumor, uncertain malignant potential
China (Sir Run Run Shaw Hospital) - Phyllodes tumor, borderline
Japan (Hamamatsu University School of Medicine) - Phyllodes tumor, borderline
Japan (Gunma University Hospital) - Malignant phyllodes tumor
Japan (Saiseikai Shiga Hospital) - Phyllodes tumor (low-grade malignant) with pseudo-angiomatous stromal hyperplasia
Japan, Chiba - Intraductal papilloma
Puerto Rico (University of Puerto Rico) - Benign phyllodes tumor
Qatar, Doha - Benign Phyllodes tumor, breast
Spain (Povisa) - Phyllodes tumor

Case 1 - Diagnosis:

Low grade phyllodes tumor, breast
T-04000, M-90201

Case 1 - References:

Dehner LP, Hill DA, Deschryver K: Pathology of the Breast in Children, Adolescents, and Young Adults. *Semin Diagn Pathol*, 1999 Aug; 16(3):235-47.
 Rajan PB, Cranor ML, Rosen PP: Cystosarcoma Phyllodes in Adolescent Girls and Young Women: A Study of 45 Patients. *Am J Surg Pathol*, 1998 Jan; 22(1):64-9.

Erhan Y, Zekioglu O, Ersoy O, et al: p53 and Ki-67 Expression As Prognostic Factors in Cystosarcoma Phyllodes. *Breast J*, 2002 Jan-Feb; 8(1):38-44.
 Chaney AW, Pollack A, McNeese MD, et al: Primary Treatment of Cystosarcoma Phyllodes of the Breast. *Cancer*, 2000 Oct 1; 89(7):1502-11.

Case No. 2, Accession No. 29573

April 2003

Escondido - Meningioma
Glendale (Glendale Pathology Association) - Recurrent meningioma
Loma Linda - Cutaneous spread meningioma
Sacramento (UC Davis Medical Center) - Meningioma
San Diego (Naval Medical Center) - Chordoid meningioma
Arizona (Phoenix Memorial Hospital) - Meningioma, angiomatous type
Arkansas (University of Arkansas Medical Center) - Meningioma
Arkansas, Little Rock - Chordoma
Colorado, Denver - Meningioma
Florida (Winter Haven Hospital) - Adnexal carcinoma
Florida, Miami - Secretory meningioma (1), Meningioma (1)
Florida, Ocala - Chondroid syringoma
Georgia, Decatur - Atypical meningioma
Illinois (Heartland Regional Medical Center) - Meningioma
Illinois (Sarah Bush Lincoln Health Center) - Meningioma
Indiana, Fort Wayne - Recurrent meningioma of scalp
Louisiana (Louisiana State University Health Science Center) - Meningioma
Louisiana, Metairie - Meningioma
Maryland (National Naval Medical Center) - Meningioma, recurring (8), Epithelioid hemangioendothelioma (3)
Maryland (University of Maryland Medical Center) - Meningioma, metaplastic
Michigan (Henry Ford Hospital) - Meningioma
Michigan (St. Joseph Mercy Hospital) - Recurrent meningioma
Michigan, Grand Rapids - Meningioma, recurrent, in biopsy site
Nebraska (Good Samaritan Hospital) - Atypical meningioma
Nevada, Las Vegas - Malignant meningioma
New Mexico (University of New Mexico) - Meningioma
New York (Nassau University Medical Center) - Microcystic meningioma, scalp
New York (Westchester Medical Center) - Epithelioid/clear cell meningioma
Ohio (Medical College of Ohio) - Microcystic meningioma
Pennsylvania (Allegheny General Hospital) - Atypical meningioma
Pennsylvania (Memorial Medical Center) - Atypical/vascular meningioma
Pennsylvania (Magee Women's Hospital) - Meningioma
Pennsylvania (Shadyside Hospital) - Metastatic clear cell meningioma
Pennsylvania, Pittsburgh - Recurrent/metastatic meningioma
Texas (Scott & White Hospital) - Meningioma
Texas, Houston - Meningioma, scalp
Texas, Lubbock - Clear cell malignant meningioma
Texas, San Antonio - Malignant epithelioid neoplasm (?)
Utah (University of Utah, Residents) - Meningioma
Washington, D.C. - Meningioma, atypical
Canada (CUSE, Site Fleurimont) - Angiomatous meningioma
Canada (University of Calgary, Foothills Hospital) - Meningioma
China (Sir Run Run Shaw Hospital) - Meningioma
Japan (Hamamatsu University School of Medicine) - Meningioma
Japan (Gunma University Hospital) - Meningioma
Japan (Saiseikai Shiga Hospital) - Epithelioid hemangioendothelioma
Japan, Chiba - Chordoma
Puerto Rico (University of Puerto Rico) - Meningioma
Qatar, Doha - Recurrent meningioma
Spain (Povisa) - Atypical meningioma

Case 2 - Diagnosis:

Meningioma, scalp

T-Y0160, M-95303

Consultation: Boleslaw Liwnicz, M.D., Ph.D., Loma Linda University Medical Center: "Meningioma"

Case 2 - References:

- Ho DM, Hsu CY, Ting LT, Chiang H: Histopathology and MIB-1 Labeling Index Predicted Recurrence of Meningiomas: A Proposal of Diagnostic Criteria For Patients With Atypical Meningioma. *Cancer*, 2002 Mar 1; 94(5):1538-47.
- Perry A, Stafford SL, Scheithauer BW, et al: Meningioma Grading: An analysis of Histologic Parameters. *Am J Surg Pathol*, 1997 Dec; 21(12):1455-65.
- Speirs V, Boyle-Walsh E, Fraser WD: Constitutive Co-Expression of Estrogen and Progesterone Receptor mRNA in Human Meningiomas by RT-PCR and Response of In-Vitro Cell Cultures to Steroid Hormones. *Int J Cancer*, 1997 Sep 4; 72(5):714-9.
- Langford LA, Piatyszek MA, Xu R, et al: Telomerase Activity in Ordinary Meningiomas Predicts Poor Outcome. *Hum Pathol*, 1997 Apr; 28(4):416-20.

Case No. 3, Accession No. 29145

April 2003

Escondido - Carcinosarcoma (malignant mixed mullerian tumor [MMMT] with homologous elements)
Glendale (Glendale Pathology Association) - Malignant mixed Mullerian tumor
Loma Linda - Carcinosarcoma of uterus
Sacramento (UC Davis Medical Center) - Malignant mixed Mullerian tumor
San Diego (Naval Medical Center) - Malignant mixed Mullerian tumor
Arizona (Phoenix Memorial Hospital) - Carcinosarcoma, heterologous
Arkansas (University of Arkansas Medical Center) - MMMT (malignant mixed Mullerian Tumor)
Arkansas, Little Rock - Malignant mixed Mullerian tumor
Colorado, Denver - Leiomyosarcoma
Florida (Winter Haven Hospital) - Adenosarcoma
Florida, Miami - Heterologous carcinosarcoma (2)
Florida, Ocala - Mixed Mullerian tumor
Georgia, Decatur - Malignant mixed Mullerian tumor
Illinois (Heartland Regional Medical Center) - Carcinosarcoma (malignant mixed Mullerian tumor)
Illinois (Sarah Bush Lincoln Health Center) - Malignant mixed Mullerian tumor
Indiana, Fort Wayne - Mixed malignant Mullerian tumor with heterologous elements (carcinosarcoma)
Louisiana (Louisiana State University Health Science Center) - Malignant mixed mesodermal tumor
Louisiana, Metairie - Malignant mixed Mullerian tumor
Maryland (National Naval Medical Center) - Malignant mixed mesodermal tumor (carcinosarcoma) (11)
Maryland (University of Maryland Medical Center) - Carcinosarcoma, heterologous
Michigan (Henry Ford Hospital) - Malignant mixed mesodermal tumor
Michigan (St. Joseph Mercy Hospital) - Malignant mixed Mullerian tumor
Michigan, Grand Rapids - Carcinosarcoma
Nebraska (Good Samaritan Hospital) - Malignant mesodermal mixed tumor
Nevada, Las Vegas - MMMT (Malignant mixed Mullerian tumor) with heterologous elements
New Mexico (University of New Mexico) - Carcinosarcoma
New York (Nassau University Medical Center) - MMMT (Malignant mixed Mullerian tumor), uterus
New York (Westchester Medical Center) - Carcinosarcoma (MMMT)
Ohio (Medical College of Ohio) - Malignant mixed Mullerian tumor (carcinosarcoma)
Pennsylvania (Allegheny General Hospital) - Malignant mixed Mullerian tumor
Pennsylvania (Memorial Medical Center) - Malignant mixed Mullerian tumor with heterologous elements
Pennsylvania (Magee Women's Hospital) - Malignant mixed Mullerian tumor
Pennsylvania (Shadyside Hospital) - Carcinosarcoma (malignant mixed Mullerian tumor)
Pennsylvania, Pittsburgh - Carcinosarcoma (MMMT), heterologous type
Texas (Scott & White Hospital) - Carcinosarcoma
Texas, Houston - Carcinosarcoma (MMMT), uterus
Texas, Lubbock - Mixed malignant Mullerian tumor
Texas, San Antonio - Carcinosarcoma (MMMT)
Utah (University of Utah, Residents) - MMMT (malignant mixed Mullerian Tumor) - Carcinosarcoma
Washington, D.C. - MMMT (Malignant mixed Mullerian tumor)
Canada (CUSE, Site Fleurimont) - MMMT (Malignant mixed Mullerian Tumor), heterologous
Canada (University of Calgary, Foothills Hospital) - Uterine carcinosarcoma (malignant mixed Mullerian tumor)

[China \(Sir Run Run Shaw Hospital\)](#) - Malignant Mullerian mixed tumor
[Japan \(Hamamatsu University School of Medicine\)](#) - Carcinosarcoma, heterologous
[Japan \(Gunma University Hospital\)](#) - Carcinosarcoma, uterus
[Japan \(Saiseikai Shiga Hospital\)](#) - Malignant mixed mesodermal tumor, heterologous
[Japan, Chiba](#) - Malignant mixed mesodermal tumor
[Puerto Rico \(University of Puerto Rico\)](#) - Malignant mixed Mullerian tumor with heterologous elements
[Qatar, Doha](#) - Malignant mixed Mullerian tumor, heterologous
[Spain \(Povisa\)](#) - Carcinosarcoma, uterine

CASE 3 - Diagnosis:

Malignant Mixed Mullerian Tumor (Carcinosarcoma, heterologous), uterus
T-82000, M-89503

Director's Note: The uterus also contained atypical endometrial adenocarcinoma, not present on the study set slides. (drc)

Case 3 - References:

Boucher D, Tetu B: Morphologic Prognostic Factors of Malignant Mixed Mullerian Tumors of the Ovary: A Clinicopathologic Study of 15 Cases. *Int J Gynecol Pathol*, 1994 Jan; 13(1):22-8.
 George E, Lillemoe TJ, Twiggs LB, Perrone T: Malignant Mixed Mullerian Tumor Versus High-Grade Endometrial Carcinoma and Aggressive Variants of Endometrial Carcinoma: A Comparative Analysis of Survival. *Int J Gynecol Pathol*, 1995 Jan; 14(1):39-44.
 Colombi RP: Sarcomatoid Carcinomas of the Female Genital Tract (Malignant Mixed Mullerian Tumors). *Semin Diagn Pathol*, 1993 May; 10(2):169-75.
 Blom R, Guerrieri C, Stal O, et al: Malignant Mixed Mullerian Tumors of the Uterus: A Clinicopathologic, DNA Flow Cytometric, p53, and mdm-2 Analysis of 44 Cases. *Gynecol Oncol*, 1998 Jan; 68(1):18-24.
 Manolitsas TP, Wain GV, Williams KE, et al: Multimodality Therapy for Patients With Clinical Stage I and II Malignant Mixed Mullerian Tumors of the Uterus. *Cancer*, 2001 Apr 15; 91(8):1437-43.

Case No. 4, Accession No. 29151

April 2003

[Escondido](#) - Mucoepidermoid carcinoma
[Glendale \(Glendale Pathology Association\)](#) - Adenocarcinoma
[Loma Linda](#) - Infiltrating duct carcinoma of parotid
[Sacramento \(UC Davis Medical Center\)](#) - Mucooid epidermoid carcinoma
[San Diego \(Naval Medical Center\)](#) - Adenocarcinoma, NOS
[Arizona \(Phoenix Memorial Hospital\)](#) - Adenosquamous carcinoma
[Arkansas \(University of Arkansas Medical Center\)](#) - Salivary duct carcinoma
[Arkansas, Little Rock](#) - Adenocarcinoma
[Colorado, Denver](#) - Adenoid cystic carcinoma
[Florida \(Winter Haven Hospital\)](#) - Metastatic adenocarcinoma
[Florida, Miami](#) - Acinic cell carcinoma (2)
[Florida, Ocala](#) - Mucoepidermoid carcinoma, high grade
[Georgia, Decatur](#) - Mucoepidermoid carcinoma, high grade
[Illinois \(Heartland Regional Medical Center\)](#) - Poorly-differentiated carcinoma, favor oncocytic carcinoma
[Illinois \(Sarah Bush Lincoln Health Center\)](#) - Mucoepidermoid carcinoma, HG vs. adenosquamous cell carcinoma
[Indiana, Fort Wayne](#) - Oncocytic adenocarcinoma, right parotid
[Louisiana \(Louisiana State University Health Science Center\)](#) - Salivary duct adenocarcinoma
[Louisiana, Metairie](#) - Acinic cell carcinoma
[Maryland \(National Naval Medical Center\)](#) - Acinic cell carcinoma (7), Salivary duct carcinoma (4)
[Maryland \(University of Maryland Medical Center\)](#) - Adenocarcinoma, NOS
[Michigan \(Henry Ford Hospital\)](#) - Adenocarcinoma
[Michigan \(St. Joseph Mercy Hospital\)](#) - High grade carcinoma, favor muco-epidermoid
[Michigan, Grand Rapids](#) - Mucoepidermoid carcinoma
[Nebraska \(Good Samaritan Hospital\)](#) - Oncocytic carcinoma
[Nevada, Las Vegas](#) - Acinic cell carcinoma
[New Mexico \(University of New Mexico\)](#) - Salivary ductal carcinoma
[New York \(Nassau University Medical Center\)](#) - Mucoepidermoid carcinoma, parotid gland
[New York \(Westchester Medical Center\)](#) - Oncocytic carcinoma

Ohio (Medical College of Ohio) - Intermediate grade adenocarcinoma, NOS
Pennsylvania (Allegheny General Hospital) - Salivary gland adenocarcinoma (NOS type)
Pennsylvania (Memorial Medical Center) - Acinic cell carcinoma/adenocarcinoma
Pennsylvania (Magee Women's Hospital) - Acinic cell carcinoma
Pennsylvania (Shadyside Hospital) - Acinic cell adenocarcinoma
Pennsylvania, Pittsburgh - Adenocarcinoma, NOS
Texas (Scott & White Hospital) - Adenocarcinoma, NOS
Texas, Houston - Adenocarcinoma, parotid
Texas, Lubbock - Oncocytic carcinoma
Texas, San Antonio - Adenocarcinoma
Utah (University of Utah, Residents) - Acinic cell carcinoma
Washington, D.C. - Adenocarcinoma
Canada (CUSE, Site Fleurimont) - Mucoepidermoid carcinoma
Canada (University of Calgary, Foothills Hospital) - Acinic cell carcinoma
China (Sir Run Run Shaw Hospital) - Acinic cell carcinoma
Japan (Hamamatsu University School of Medicine) - Salivary duct carcinoma
Japan (Gunma University Hospital) - Acinic cell carcinoma
Japan (Saiseikai Shiga Hospital) - Mucoepidermoid carcinoma
Japan, Chiba - Oncocytic carcinoma
Puerto Rico (University of Puerto Rico) - Adenocarcinoma, high grade
Qatar, Doha - Invasive salivary duct carcinoma with a focus of sialometaplasia
Spain (Povisa) - Oncocytic carcinoma

Case 4 - Diagnosis:

Adenocarcinoma (NOS), Parotid gland
T-55100, M-81403

Case 4 - References:

Prasad AR, Saveria AT, Gown AM, Zarbo RJ: The Myoepithelial Immunophenotype in 135 Benign and Malignant Salivary Gland Tumors Other Than Pleomorphic Adenoma. *Arch Pathol Lab Med*, 1999 Sep; 123(9):801-6.
 Pinkston JA, Cole P: Incidence Rates of Salivary Gland Tumors: Results From a Population-Based Study. *Otolaryngol Head Neck Surg*, 1999 Jun; 120(6):834-40.
 Franchi A, Moroni M, Paglierani M, Santucci M: Expression of CD44 Standard and Variant Isoforms in Parotid Gland and Parotid Gland Tumours. *J Oral Pathol Med*, 2001 Oct; 30(9):564-8.
 Ruiz-Godoy RL, Meneses GA, Mosqueda Ta, Suarez RL: Unusual Salivary Glands Adenocarcinomas: A Retrospective Study. *J Exp Clin Cancer Res*, 2001 Jun; 20(2):189-94.
 Nagao T, Sugano I, Matsuzaki O, et al: Intraductal Papillary Tumors of the Major Salivary Glands: Case Reports Of Benign and Malignant Variants. *Arch Pathol Lab Med*, 2000 Feb; 124(2):291-5.

Case No. 5, Accession No. 28963

April 2003

Escondido - Papillary carcinoma
Glendale (Glendale Pathology Association) - Papillary carcinoma, tall-cell variant
Loma Linda - Papillary carcinoma of thyroid
Sacramento (UC Davis Medical Center) - Papillary thyroid carcinoma
San Diego (Naval Medical Center) - Papillary carcinoma, tall cell variant
Arizona (Phoenix Memorial Hospital) - Papillary carcinoma, tall cell variant
Arkansas (University of Arkansas Medical Center) - Papillary carcinoma, tall cell variant
Arkansas, Little Rock - Papillary carcinoma, thyroid
Colorado, Denver - Papillary carcinoma
Florida (Winter Haven Hospital) - Papillary carcinoma
Florida, Miami - Papillary thyroid carcinoma (2)
Florida, Ocala - Papillary carcinoma
Georgia, Decatur - Papillary thyroid carcinoma? Tall cell variant, with transformation to anaplastic carcinoma
Illinois (Heartland Regional Medical Center) - Papillary carcinoma
Illinois (Sarah Bush Lincoln Health Center) - Papillary thyroid carcinoma
Indiana, Fort Wayne - Infiltrating papillary carcinoma, thyroid
Louisiana (Louisiana State University Health Science Center) - Papillary carcinoma of the thyroid
Louisiana, Metairie - Papillary carcinoma (tall cell variant)
Maryland (National Naval Medical Center) - Papillary thyroid carcinoma, tall cell variant (11)

Maryland (University of Maryland Medical Center) - Papillary adenocarcinoma, tall cell variant
Michigan (Henry Ford Hospital) - Papillary thyroid carcinoma
Michigan (St. Joseph Mercy Hospital) - Papillary carcinoma
Michigan, Grand Rapids - Papillary carcinoma
Nebraska (Good Samaritan Hospital) - Papillary carcinoma
Nevada, Las Vegas - Papillary thyroid carcinoma
New Mexico (University of New Mexico) - Papillary carcinoma, oncocyctic
New York (Nassau University Medical Center) - Papillary carcinoma, thyroid
New York (Westchester Medical Center) - Papillary carcinoma
Ohio (Medical College of Ohio) - Papillary thyroid carcinoma, tall cell variant
Pennsylvania (Allegheny General Hospital) - Papillary carcinoma, tall cell variant
Pennsylvania (Memorial Medical Center) - Papillary carcinoma of thyroid
Pennsylvania (Magee Women's Hospital) - Papillary carcinoma, tall cell variant
Pennsylvania (Shadyside Hospital) - Papillary carcinoma of thyroid
Pennsylvania, Pittsburgh - Papillary carcinoma
Texas (Scott & White Hospital) - Papillary thyroid carcinoma
Texas, Houston - Papillary carcinoma, tall cell variant, thyroid
Texas, Lubbock - Papillary carcinoma
Texas, San Antonio - Papillary thyroid carcinoma
Utah (University of Utah, Residents) - Papillary thyroid carcinoma, tall cell variant
Washington, D.C. - Papillary carcinoma
Canada (CUSE, Site Fleurimont) - Papillary carcinoma
Canada (University of Calgary, Foothills Hospital) - Papillary carcinoma of thyroid, columnar cell variant
China (Sir Run Run Shaw Hospital) - Thyroid papillary carcinoma (tall cell variant)
Japan (Hamamatsu University School of Medicine) - Papillary carcinoma
Japan (Gunma University Hospital) - Papillary carcinoma, thyroid
Japan (Saiseikai Shiga Hospital) - Papillary carcinoma, tall cell variant
Japan, Chiba - Papillary carcinoma
Puerto Rico (University of Puerto Rico) - Papillary thyroid carcinoma
Qatar, Doha - Papillary carcinoma of thyroid
Spain (Povisa) - Tall cell variant of papillary carcinoma

Case 5 - Diagnosis:

Papillary carcinoma with tall cell features ("tall cell variant"), thyroid
T-96000, M-80503

Case 5 - References:

Cameselle-Teijeiro J, Febles-Perez C, Cameselle-Teijeiro JF, et al: Cytologic Clues for Distinguishing the Tall Cell Variant of Thyroid Papillary Carcinoma: A Case Report. *Acta Cytol*, 1997 Jul-Aug; 41(4 Suppl):1310-6.
 Terry JH, St John SA, Karkowski FJ, et al: Tall Cell Papillary Thyroid Cancer: Incidence and Prognosis. *Am J Surg*, 1994 Nov; 168(5):459-61.
 Ostrowski ML, Merino MJ: Tall Cell Variant of Papillary Thyroid Carcinoma: A Reassessment and Immunohistochemical Study With Comparison to the Usual Type of Papillary Carcinoma of the Thyroid. *Am J Surg Pathol*, 1996 Aug; 20(8):964-74.
 Damiani S, Dina R, Eusebi V: Cytologic Grading of Aggressive and Non-Aggressive Variants of Papillary Thyroid Carcinoma. *Am J Clin Pathol*, 1994 May; 101(5):651-5.
 Pilotti S, Collini P, Manzari A, et al: Poorly-Differentiated Forms of Papillary Thyroid Carcinoma: Distinctive Entities or Morphologic Patterns? *Semin Diagn Pathol*, 1995 Aug; 12(3):249-55.

Case No. 6, Accession No. 29574

April 2003

Escondido - Gastrointestinal stromal tumor
Glendale (Glendale Pathology Association) - GIST (Gastrointestinal stromal tumor)
Loma Linda - Gastrointestinal stromal tumor, low grade
Sacramento (UC Davis Medical Center) - GIST (gastrointestinal stromal tumor)
San Diego (Naval Medical Center) - Gastrointestinal stromal tumor, probably benign
Arizona (Phoenix Memorial Hospital) - Gastrointestinal stromal tumor
Arkansas (University of Arkansas Medical Center) - Stromal sarcoma, G.I.
Arkansas, Little Rock - Gastrointestinal stromal tumor
Colorado, Denver - GIST (Gastrointestinal stromal tumor)
Florida (Winter Haven Hospital) - GIST (Gastrointestinal stromal tumor)

Florida, Miami - GIST (Gastrointestinal stromal tumor) (leiomyoma) (2)
Florida, Ocala - GIST tumor (Gastrointestinal stromal tumor)
Georgia, Decatur - Gastrointestinal stromal tumor
Illinois (Heartland Regional Medical Center) - Gastrointestinal stromal tumor
Illinois (Sarah Bush Lincoln Health Center) - Benign GIST (gastrointestinal stromal tumor)
Indiana, Fort Wayne - GIST (Gastrointestinal stromal tumor), stomach
Louisiana (Louisiana State University Health Science Center) - Gastrointestinal stromal tumor
Louisiana, Metairie - Gastrointestinal stromal tumor
Maryland (National Naval Medical Center) - Gastrointestinal stromal tumor (11)
Maryland (University of Maryland Medical Center) - Gastrointestinal stromal tumor
Michigan (Henry Ford Hospital) - Gastrointestinal stromal tumor
Michigan (St. Joseph Mercy Hospital) - Gastrointestinal stromal tumor
Michigan, Grand Rapids - Gastro-intestinal stromal tumor (GIST)
Nebraska (Good Samaritan Hospital) - GIST (Gastrointestinal stromal tumor)
Nevada, Las Vegas - GIST (Gastrointestinal stromal tumor), intermediate risk
New Mexico (University of New Mexico) - GIST (Gastrointestinal stromal tumor)
New York (Nassau University Medical Center) - GIST (Gastrointestinal stromal tumor), stomach
New York (Westchester Medical Center) - Gastric GIST (gastrointestinal stromal tumor)
Ohio (Medical College of Ohio) - Gastrointestinal stromal tumor
Pennsylvania (Allegheny General Hospital) - Gastrointestinal stromal tumor of undetermined malignant potential
Pennsylvania (Memorial Medical Center) - GIST (Gastrointestinal stromal tumor)
Pennsylvania (Magee Women's Hospital) - Gastrointestinal stromal tumor
Pennsylvania (Shadyside Hospital) - GIST (stromal tumor)
Pennsylvania, Pittsburgh - GIST (Gastrointestinal stromal tumor), probably benign
Texas (Scott & White Hospital) - GIST (Gastrointestinal stromal tumor)
Texas, Houston - Gastrointestinal stromal tumor, stomach
Texas, Lubbock - Gastrointestinal tumor
Texas, San Antonio - GIST (Gastrointestinal stromal tumor)
Utah (University of Utah, Residents) - GIST (gastrointestinal stromal tumor)
Washington, D.C. - GIST (Gastrointestinal stromal tumor)
Canada (CUSE, Site Fleurimont) - GIST (Gastrointestinal stromal tumor)
Canada (University of Calgary, Foothills Hospital) - GI stromal tumor
China (Sir Run Run Shaw Hospital) - Gastrointestinal stromal tumor, malignant
Japan (Hamamatsu University School of Medicine) - GIST (gastrointestinal stromal tumor)
Japan (Gunma University Hospital) - Gastrointestinal stromal tumor, stomach
Japan (Saiseikai Shiga Hospital) - Gastrointestinal stromal tumor (GIST)
Japan, Chiba - Gastrointestinal stromal tumor
Puerto Rico (University of Puerto Rico) - Gastrointestinal stromal tumor
Qatar, Doha - Gastrointestinal stromal tumour, benign
Spain (Povisa) - GANT

Case 6 - Diagnosis:

Gastrointestinal stromal tumor, stomach
T-63000, M-88903

Case 6 - References:

- Gu M, Ghafari S, Nguyen PT, Lin F: Cytologic Diagnosis of Gastrointestinal Stromal Tumors of the Stomach By Endoscopic Ultrasound-Guided Fine-Needle Aspiration Biopsy: Cytomorphologic and Immunohistochemical Study of 12 Cases. *Diagn Cytopathol*, 2001 Dec; 25(6):343-50.
- Miettinen M, Sobin LH, Sarlomo-Rikala M: Immunohistochemical Spectrum of GISTs at Different Sites and Their Differential Diagnosis With a Reference to CD117 (KIT). *Mod Pathol*, 2000 Oct; 13(10):1134-42.
- Suster S: Gastrointestinal Stromal Tumors. *Semin Diagn Pathol*, 1996 Nov; 13(4):297-313.
- Rubin BP, Singer S, Tsao C, et al: KIT Activation Is A Ubiquitous Feature of Gastrointestinal Stromal Tumors. *Cancer Res*, 2001 Nov 15; 61(22):8118-21.
- Miettinen M: New Challenges in the Identification of Gastrointestinal Stromal Tumors and Other Possible KIT-Driven Tumors. *Am J Clin Pathol*, 2002 Feb; 117(2):183-5.
- Trupiano JK, Stewart RE, Misick C, et al: Gastric Stromal Tumors: A Clinicopathologic Study of 77 Cases With Correlation of Features With Non-Aggressive and Aggressive Clinical Behaviors. *Am J Surg Pathol*, 2002 Jun; 26(6):705-14.

Escondido - Myxoid nerve sheath tumor
Glendale (Glendale Pathology Association) - Fibromatosis vs. inflammatory myofibroblastic tumor
Loma Linda - Gastrointestinal stromal tumor, benign
Sacramento (UC Davis Medical Center) - Fibromatosis
San Diego (Naval Medical Center) - Intra-abdominal fibromatosis
Arizona (Phoenix Memorial Hospital) - Desmoid fibromatosis
Arkansas (University of Arkansas Medical Center) - Abdominal desmoid/fibromatosis
Arkansas, Little Rock - Mesenteric fibromatosis
Colorado, Denver - Localized fibrous tumor
Florida (Winter Haven Hospital) - Desmoid tumor (fibromatosis)
Florida, Miami - Mesenteric fibromatosis (1); Fibromatosis (1)
Florida, Ocala - Inflammatory myofibroblastoma
Georgia, Decatur - Fibromatosis
Illinois (Heartland Regional Medical Center) - Fibromatosis
Illinois (Sarah Bush Lincoln Health Center) - Intra-abdominal fibromatosis
Indiana, Fort Wayne - Desmoid fibromatosis, abdomen
Louisiana (Louisiana State University Health Science Center) - Desmoid
Louisiana, Metairie - Low-grade fibromyxoid sarcoma
Maryland (National Naval Medical Center) - Fibromatosis (11)
Maryland (University of Maryland Medical Center) - Fibromatosis
Michigan (Henry Ford Hospital) - Desmoid tumor
Michigan (St. Joseph Mercy Hospital) - Desmoid
Michigan, Grand Rapids - Intra-abdominal fibromatosis
Nebraska (Good Samaritan Hospital) - Fibromatosis
Nevada, Las Vegas - Mesenteric fibromatosis
New Mexico (University of New Mexico) - Fibromatosis
New York (Nassau University Medical Center) - Low grade fibromyxoid sarcoma, abdomen
New York (Westchester Medical Center) - Fibromyxoid sarcoma, low grade
Ohio (Medical College of Ohio) - Intra-abdominal fibromatosis (desmoid tumor)
Pennsylvania (Allegheny General Hospital) - Fibromatosis
Pennsylvania (Memorial Medical Center) - Cellular fibroma/desmoid tumor
Pennsylvania (Magee Women's Hospital) - Fibromatosis
Pennsylvania (Shadyside Hospital) - Fibrous histiocytoma
Pennsylvania, Pittsburgh - Fibromatosis
Texas (Scott & White Hospital) - Intra-abdominal fibromatosis
Texas, Houston - Mesenteric fibromatosis, abdomen
Texas, Lubbock - Desmoplastic tumor
Texas, San Antonio - Fibromatosis
Utah (University of Utah, Residents) - Intra-abdominal fibromatosis
Washington, D.C. - Fibrous tumor, low grade
Canada (CUSE, Site Fleurimont) - Solitary fibrous tumor
Canada (University of Calgary, Foothills Hospital) - Fibromatosis
China (Sir Run Run Shaw Hospital) - Fibromatosis
Japan (Hamamatsu University School of Medicine) - Desmoid fibromatosis
Japan (Gunma University Hospital) - Intra-abdominal desmoid tumor
Japan (Saiseikai Shiga Hospital) - Solitary fibrous tumor
Japan, Chiba - Intra-abdominal fibromatosis
Puerto Rico (University of Puerto Rico) - Inflammatory pseudo-tumor/angiomyxoma
Qatar, Doha - Benign nerve sheath tumour
Spain (Povisa) - Mesenteric fibromatosis

Case 7 - Diagnosis:

Intra-abdominal fibromatosis ("Intra-abdominal desmoid tumor")

T-Y4100, M-76100

Case 7 - References:

Shields CJ, Winter DC, Kirwan WO, Redmond HP: Desmoid Tumours. *Eur J Surg Oncol*, 2001 Dec; 27(8):701-6. Review.
 Casillas J, Sais GJ, Greve JL: Imaging of Intra- and Extra-Abdominal Desmoid Tumors. *Radiographics*, 1991 Nov; 11(6):959-68.
 Arai N, Mitomi H, Uesugi H, et al: An Aggressive Desmoid Tumor in a Patient With Familial Adenomatous Polyposis: Immunohistochemical Findings. *Am J Gastroenterol*, 1999 Feb; 94(2):530-2.

De Wever I, Dal Cin P, Fletcher CD, et al: Cytogenetic, Clinical, and Morphologic Correlations in 78 Cases of Fibromatosis: A Report From the CHAMP Study Group. Chromosomes and Morphology. *Mod Pathol*, 2000 Oct; 13(10):1080-5.
 Ballo MT, Zagars GK, Pollack A, et al: Desmoid Tumor: Prognostic Factors and Outcome After Surgery, Radiation Therapy, or Combined Surgery and Radiation Therapy. *J Clin Oncol*, 1999 Jan; 17(1):158-67.

Case No. 8, Accession No. 29381

April 2003

Escondido - Lymphangioma
Glendale (Glendale Pathology Association) - Myxoid liposarcoma
Loma Linda - Lymphangioma
Sacramento (UC Davis Medical Center) - Myxoid liposarcoma
San Diego (Naval Medical Center) - Myxoid liposarcoma
Arizona (Phoenix Memorial Hospital) - Hemangioma
Arkansas, Little Rock - Lymphangioma
Colorado, Denver - Liposarcoma
Florida (Winter Haven Hospital) - Myxoid liposarcoma
Florida, Miami - Myxoid liposarcoma (2)
Florida, Ocala - Well-differentiated liposarcoma
Georgia, Decatur - Myxoid liposarcoma
Illinois (Heartland Regional Medical Center) - Myxoid liposarcoma
Illinois (Sarah Bush Lincoln Health Center) - Lymphangioma
Indiana, Fort Wayne - Mixed angioma - lymphangioma, right thigh
Louisiana (Louisiana State University Health Science Center) - Low grade myxoid liposarcoma
Louisiana, Metairie - Myxoid liposarcoma
Maryland (National Naval Medical Center) - Myxoid liposarcoma (11)
Maryland (University of Maryland Medical Center) - Low grade myxoid liposarcoma
Michigan (Henry Ford Hospital) - Lymphangioma
Michigan (St. Joseph Mercy Hospital) - Myxoid liposarcoma
Michigan, Grand Rapids - Myxoid liposarcoma
Nebraska (Good Samaritan Hospital) - Myxoid liposarcoma
Nevada, Las Vegas - Lymphangioma
New York (Nassau University Medical Center) - Myxoid liposarcoma, thigh
New York (Westchester Medical Center) - Myxoid liposarcoma
Ohio (Medical College of Ohio) - Myxoid liposarcoma
Ohio, Columbus - Myxoid liposarcoma
Pennsylvania (Allegheny General Hospital) - Lymphangioma
Pennsylvania (Memorial Medical Center) - Lymphoangiomas
Pennsylvania (Magee Women's Hospital) - Myxoid/Round cell liposarcoma
Pennsylvania (Shadyside Hospital) - Myxoid liposarcoma
Pennsylvania, Pittsburgh - Myxoid liposarcoma
Texas (Scott & White Hospital) - Myxoid liposarcoma
Texas, Houston - Lymphangioma, thigh
Texas, Lubbock - Myxoid liposarcoma
Texas, San Antonio - Vascular neoplasm/myxoid liposarcoma
Utah (University of Utah, Residents) - Myxoid liposarcoma
Washington, D.C. - Lymphangioma, cavernous
Canada (CUSE, Site Fleurimont) - Lymphangioma
Canada (University of Calgary, Foothills Hospital) - Myxoid liposarcoma
China (Sir Run Run Shaw Hospital) - Myxoid liposarcoma/Epithelioid hemangioendothelioma
Japan (Hamamatsu University School of Medicine) - Composite haemangioendothelioma
Japan (Gunma University Hospital) - Myxoid liposarcoma, thigh
Japan (Saiseikai Shiga Hospital) - Cavernous lymphangioma
Japan, Chiba - Lymphangioma
Puerto Rico (University of Puerto Rico) - Angiolymphangioma
Qatar, Doha - Myxoid liposarcoma
Spain (Povisa) - Myxoid liposarcoma

Case 8 - Diagnosis:

**Myxoid liposarcoma, thigh
 T-Y9100, M-88523**

Case 8 - References:

- Graadt van Roggen JF, Hogendoorn PC, Fletcher CD: Myxoid Tumours of Soft Tissue. *Histopathology*, 1999 Oct; 35(4):291-312. Review.
- Wakely PE Jr: Myxomatous Soft Tissue Tumors: Correlation of Cytopathology and Histopathology. *Ann Diagn Pathol*, 1999 Aug; 3(4):227-42. Review.
- Ninfo VV, Montesco MC: Myxoid Tumors of Soft Tissues: A Challenging Pathological Diagnosis. *Adv Clin Pathol*, 1998 Apr; 2(2):101-115.
- Fukuda T, Oshiro Y, Yamamoto I, Tsuneyoshi M: Long-Term Follow Up of Pure Myxoid Liposarcomas With Special Reference to Local Recurrence and Progression to Round Cell Lesions. *Pathol Int*, 1999 Aug; 49(8):710-5.
- Chitnis M, Steyn T, Koeppen P, et al: Differentiation of a Benign Myxolipoma From a Myxoid Liposarcoma By Tumour Karyotyping: A Diagnosis Missed. *Pediatr Surg Int*, 2002; 18(1):83.
- Antonescu CR, Tschernyavsky SJ, Decuseara R, et al: Prognostic Impact of P53 Status, TLS-CHOP Fusion Transcript Structure and Histological Grade in Myxoid Liposarcoma: A Molecular and Clinicopathologic Study of 82 Cases. *Clin Cancer Res*, 2001 Dec; 7(12):3977-87.

Case No. 9, Accession No. 28956

April 2003

Escondido - Well-differentiated liposarcoma
Glendale (Glendale Pathology Association) - Sclerosing liposarcoma
Loma Linda - Fibrosarcoma
Sacramento (UC Davis Medical Center) - Well-differentiated liposarcoma
San Diego (Naval Medical Center) - Well-differentiated liposarcoma with changes consistent with dedifferentiation
Arizona (Phoenix Memorial Hospital) - Inflammatory myofibroblastic tumor
Arkansas (University of Arkansas Medical Center) - High grade sarcoma, most likely dedifferentiated liposarcoma
Arkansas, Little Rock - Dedifferentiated liposarcoma
Colorado, Denver - Leiomyosarcoma
Florida (Winter Haven Hospital) - Well-differentiated liposarcoma
Florida, Miami - MPNST (Malignant peripheral nerve sheath tumor) (2)
Florida, Ocala - Sarcoma, ? lipogenic origin
Georgia, Decatur - Well-differentiated liposarcoma
Illinois (Heartland Regional Medical Center) - Atypical lipomatous tumor (well-differentiated sclerosing liposarcoma)
Illinois (Sarah Bush Lincoln Health Center) - Atypical spindle cell lesion
Indiana, Fort Wayne - Smooth muscle hamartoma (angiomyoma), left spermatic cord
Louisiana (Louisiana State University Health Science Center) - Recurrent low grade sarcoma, consistent with myxoid liposarcoma
Louisiana, Metairie - Well-differentiated liposarcoma
Maryland (National Naval Medical Center) - Well-differentiated liposarcoma (sclerosing) (11)
Maryland (University of Maryland Medical Center) - Atypical lipoma
Michigan (Henry Ford Hospital) - Liposarcoma
Michigan (St. Joseph Mercy Hospital) - Well-differentiated liposarcoma
Michigan, Grand Rapids - Liposarcoma, well-differentiated, sclerosing
Nebraska (Good Samaritan Hospital) - Sclerosing liposarcoma
Nevada, Las Vegas - Well-differentiated liposarcoma
New Mexico (University of New Mexico) - Liposarcoma
New York (Nassau University Medical Center) - Myxofibrosarcoma, left inguinal region
New York (Westchester Medical Center) - Recurrent liposarcoma
Ohio (Medical College of Ohio) - Well-differentiated sclerosing liposarcoma with focal areas of dedifferentiation (low grade)
Pennsylvania (Allegheny General Hospital) - Dedifferentiated liposarcoma
Pennsylvania (Memorial Medical Center) - Well-differentiated liposarcoma
Pennsylvania (Magee Women's Hospital) - Well-differentiated liposarcoma
Pennsylvania (Shadyside Hospital) - Well-differentiated sclerosing liposarcoma
Pennsylvania, Pittsburgh - Atypical lipoma
Texas (Scott & White Hospital) - Fibromatosis
Texas, Houston - Atypical lipomatous tumor, inguinal
Texas, Lubbock - Sclerosing liposarcoma
Texas, San Antonio - Well-differentiated liposarcoma
Utah (University of Utah, Residents) - Well-differentiated liposarcoma, sclerosing variant
Washington, D.C. - Liposarcoma, recurrent
Canada (CUSE, Site Fleurimont) - Well-differentiated liposarcoma
Canada (University of Calgary, Foothills Hospital) - Well-differentiated liposarcoma with dedifferentiation

China (Sir Run Run Shaw Hospital) - Sclerosing liposarcoma
Japan (Hamamatsu University School of Medicine) - Liposarcoma, sclerosing type
Japan (Gunma University Hospital) - Well-differentiated liposarcoma, fibrosing type
Japan (Saiseikai Shiga Hospital) - Well-differentiated sclerosing liposarcoma
Japan, Chiba - Extra-abdominal fibromatosis
Puerto Rico (University of Puerto Rico) - Desmoid tumor
Qatar, Doha - Fibromatosis
Spain (Povisa) - Proliferative fasciitis

Case 9 - Diagnosis:

Lipoleiomyosarcoma, inguinal area
T-Y7000, M-88903

Outside Consultation: Sharon Weiss, M.D., Emory University School of Medicine: Lipoleiomyosarcoma, low to intermediate grade

Director's Note: Not all study set slides showed both the malignant fatty and smooth muscle areas. (drc)

Case 9 - References:

Scurry JP, Carey MP, Targett CS, Dowling JP: Soft Tissue Lipoleiomyoma. *Pathology*; 1991 Oct; 23(4):360-2.
 Scurry J, Hack M: Leiomyosarcoma Arising in a Lipoleiomyoma. *Gynecol Oncol*, 1990 Dec; 39(3):381-3.
 Guillou L, Coindre JM: Newly Described Adipocytic Lesions. *Semin Diagn Pathol*, 2001 Nov; 18(4):238-49.

Case No. 10, Accession No. 29010

April 2003

Escondido - Malignant fibrous histiocytoma
Glendale (Glendale Pathology Association) - Malignant fibrous histiocytoma
Loma Linda - Fully malignant sarcoma
Sacramento (UC Davis Medical Center) - Malignant fibrohistiocytoma
San Diego (Naval Medical Center) - Pleomorphic-storiform malignant fibrous histiocytoma
Arizona (Phoenix Memorial Hospital) - Undifferentiated sarcoma
Arkansas (University of Arkansas Medical Center) - MFH (Malignant fibrous histiocytoma)
Arkansas, Little Rock - Sarcoma, possibly malignant giant cell tumor of tendon sheath
Colorado, Denver - Malignant fibrous histiocytoma
Florida (Winter Haven Hospital) - Malignant fibrous histiocytoma
Florida, Miami - MFH (Malignant fibrous histiocytoma) (2)
Florida, Ocala - Malignant fibrous histiocytoma
Georgia, Decatur - High grade sarcoma with features of MFH
Illinois (Heartland Regional Medical Center) - Malignant fibrous histiocytoma
Illinois (Sarah Bush Lincoln Health Center) - Malignant fibrous histiocytoma
Indiana, Fort Wayne - MFH (Malignant fibrous histiocytoma), soft tissue, neck
Louisiana (Louisiana State University Health Science Center) - Malignant fibrous histiocytoma vs. malignant nerve sheath tumor
Louisiana, Metairie - Pleomorphic malignant fibrous histiocytoma
Maryland (National Naval Medical Center) - High grade pleomorphic sarcoma/malignant fibrous histiocytoma (11)
Maryland (University of Maryland Medical Center) - Malignant fibrous histiocytoma with osteoclast-like giant cell
Michigan (Henry Ford Hospital) - Malignant fibrous histiocytoma
Michigan (St. Joseph Mercy Hospital) - Malignant fibrous histiocytoma
Michigan, Grand Rapids - Malignant fibrous histiocytoma
Nebraska (Good Samaritan Hospital) - Malignant fibrous histiocytoma
Nevada, Las Vegas - Malignant fibrous histiocytoma
New Mexico (University of New Mexico) - MFH (malignant fibrous histiocytoma)
New York (Nassau University Medical Center) - MFH (Malignant fibrous histiocytoma), storiform/pleomorphic, neck
New York (Westchester Medical Center) - High grade pleomorphic sarcoma
Ohio (Medical College of Ohio) - Pleomorphic storiform malignant fibrous histiocytoma
Pennsylvania (Allegheny General Hospital) - Malignant fibrous histiocytoma
Pennsylvania (Memorial Medical Center) - High-grade sarcoma, favor MFH/Ewing
Pennsylvania (Magee Women's Hospital) - Malignant fibrous histiocytoma
Pennsylvania (Shadyside Hospital) - Malignant fibrous histiocytoma
Pennsylvania, Pittsburgh - MFH (Malignant fibrous histiocytoma), storiform-pleomorphic type

Texas (Scott & White Hospital) - High grade pleomorphic sarcoma, NOS
Texas, Houston - Malignant fibrohistiocyoma, neck
Texas, Lubbock - Malignant neurilemmoma
Texas, San Antonio - MFH (Malignant fibrous histiocyoma)
Utah (University of Utah, Residents) - Malignant fibrous histiocyoma (MFH)
Washington, D.C. - MFH (Malignant fibrous histiocyoma)
Canada (CUSE, Site Fleurimont) - Pleomorphic MFH (malignant fibrous histiocyoma)
Canada (University of Calgary, Foothills Hospital) - Pleomorphic malignant fibrous histiocyoma
Japan (Hamamatsu University School of Medicine) - MFH (malignant fibrous histiocyoma)
Japan (Gunma University Hospital) - Malignant fibrous histiocyoma
Japan (Saiseikai Shiga Hospital) - Malignant fibrous histiocyoma
Japan, Chiba - Malignant fibrous histiocyoma
Puerto Rico (University of Puerto Rico) - Malignant fibrous histiocyoma
Qatar, Doha - Malignant fibrous histiocyoma
Spain (Povisa) - Angiosarcoma. Epithelioid sarcoma

Case 10 - Diagnosis:

**High grade pleomorphic sarcoma with phenotype known as storiform pleomorphic malignant
 fibrous histiocyoma (MFH), back
 T-Y1100, M-88023**

Case 10 - References:

Belal A, Kandil A, Allam A, et al: Malignant Fibrous Histiocyoma: A Retrospective Study of 109 Cases. *Am J Clin Oncol*, 2002 Feb; 25(1):16-22.
 Brountzos EN, Panagiotou IE, Bafaloukos D, et al: Malignant Fibrous Histiocyoma of the Trunk Metastatic to the Liver: Treatment With Transcatheter Intrahepatic Chemoembolization. *Am J Clin Oncol*, 2001 Aug; 24(4):370-1.
 Fletcher CD, Gustafson P, Rydholm A, et al: Clinicopathologic Re-Evaluation of 100 Malignant Fibrous Histiocytomas: Prognostic Relevance of Subclassification. *J Clin Oncol*, 2001 Jun 15; 19(12):3045-50.
 Coindre JM, Terrier P, Guillou L, et al: Predictive Value of Grade for Metastasis Development in the Main Histologic Types of Adult Soft Tissue Sarcomas: A Study of 1240 Patients From the French Federation of Cancer Centers Sarcoma Group. *Cancer*, 2001 May 15; 91(10):1914-26.
 Arbiser ZK, Folpe AL, Weiss SW: Consultative (Expert) Second Opinions In Soft Tissue Pathology: Analysis of Problem-Prone Diagnostic Situations. *Am J Clin Pathol*; 2001 Oct; 116(4):473-6.