



CALIFORNIA
TUMOR TISSUE REGISTRY

“GENERAL PATHOLOGY”

Minutes – Subscription B

February, 2004



SUGGESTED READING (General Topics from Recent Literature):

Metastatic Potential of Dermatofibrosarcoma Protuberans With Fibrosarcomatous Change. Minter RM, Reith JD, Hochwald SN. *J Surg Oncol*, 2003; 82:201-8.

National Comprehensive Cancer Network Guidelines For the Management of Prostate Cancer. Scherr D, Swindle PW, Scardino PT. *Urology*, 2003 Feb; 61(Supplement 2A):14-24.

Current Management of Melanoma: Benefits of Surgical Staging and Adjuvant Therapy. McMasters KM, Swetter SM. *J Surg Oncol*, 2003; 82:209-16.

Detection and Isolation of Prostate Cancer Cells From Peripheral Blood and Bone Marrow. Ellis WJ, Pfitzenmaier J, Colli J, et al. *Urology*, 2003; 61(2):277-281.

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FILE DIAGNOSES

CTTR Subscription B

February, 2004

Case 1:

Cystic lymphangioma (“mesenteric cyst”), abdomen
T-Y4100, M-91730

Case 2:

Papillary carcinoma of the thyroid
T-96000, M-80503

Case 3:

Thymoma, mediastinum
T-Y2300, M-85800

Case 4:

Duct carcinoma of breast with associated silicone mastopathy
T-04000, M-85003

Case 5:

Thrombosed hemorrhoids with partial organization (papillary endothelial hyperplasia)
T-61980, M-32624

Case 6:

Myxoid leiomyoma, uterus
T-82000, M-88900

Case 7:

Leiomyosarcoma, abdomen
T-Y4100, M-88903

Case 8:

High grade spindle cell sarcoma NOS, retroperitoneum
T-Y4600, M-88013

Case 9:

Chordoma, sacrum
T-10800, M-93703

Case 10:

High grade chondrosarcoma, chest wall
T-Y2150, M-92203

Glendale (Glendale Pathology Association) - Lymphangioma
Granada Hills - Mesenteric cyst
Orange (UCI Medical Center Residents) - Multilocular peritoneal inclusion cyst vs. lymphangioma
San Fernando (K-R San Fernando Valley Group) - Mesenteric cyst, simple, benign (1); Simple mesenteric cyst (1)
San Francisco (San Francisco General Hospital) - Lymphangioma
Arizona (Phoenix Memorial Hospital) - Benign multiloculated mesothelial cyst
Arkansas (University of Arkansas Medical Center) - Lymphangioma, mesentery
Colorado, Denver - Lymphangioma
Florida (Winter Haven Hospital) - Mesenteric cyst
Georgia, Decatur - Lymphangioma
Illinois (Heartland Regional Medical Center) - Cystic lymphangioma
Kansas (Coffeyville Regional Medical Center) - Lymphangioma (cystic hygroma), mesentery
Kansas (Kansas University Medical Center) - Intra-abdominal lymphangioma
Kansas, Manhattan - Cystic lymphangioma
Kentucky (University of Louisville Hospital) - Intra-abdominal lymphangioma vs. lymphocele
Louisiana (LSUHSC Shreveport) - Benign multicystic mesothelioma
Louisiana, Metairie - Lymphangioma
Maryland (Johns Hopkins Medical Center) - Lymphangioma
Maryland (National Naval Medical Center) - Lymphangioma
New York (Nassau University Medical Center) - Multilocular peritoneal inclusion cyst
New York (New York Presbyterian - Cornell Residents) - Cystic hygroma
Ohio, Columbus - Lymphangioma
Pennsylvania (Allegheny General Hospital) - Lymphangiomatosis
Pennsylvania (Drexel University College of Medicine) - Cystic lymphangioma
Pennsylvania (Memorial Medical Center) - Cystic lymphangioma
Pennsylvania (UPMC/Shadyside) - Lymphangioma
Texas (Scott & White Hospital) - Lymphangioma
Texas, Lubbock - Benign epithelial inclusion cyst
Texas, San Antonio - Lymphangioma
Washington, D.C. - Cystic lymphangioma
Canada (University of Calgary, Foothills Hospital) - Multilocular cystic lymphangioma
China (Sir Run Run Shaw Hospital) - Lymphangioma
Italy, Naples - Lymphangioma
Japan (Hamamatsu University School of Medicine) - Cavernous lymphangioma
Japan, Chiba - Multilocular peritoneal inclusion cyst of mesentery
Qatar, Doha - Lymphangioma
Saudi Arabia, Al Hassa - Cystic lymphangioma
Spain (Povisa) - Cystic lymphangioma
The Netherlands, Amstelveen - Abdominal lymphangioma

Case 1 - Diagnosis:

Cystic lymphangioma ("mesenteric cyst"), abdomen
T-Y4100, M-91730

Case 1 - References:

Bliss DP Jr, Coffin CM, Bower RJ, et al: Mesenteric Cysts in Children. *Surgery*, 1994 May; 115(5):571-7.
Ros PR, Olmsted WW, Moser RP Jr, et al: Mesenteric and Omental Cysts: Histologic Classification With Imaging Correlation. *Radiology*, 1987 Aug; 164(2):327-32.
De Perrot M, Brundler M, Totsch M, et al: Mesenteric Cysts: Towards Less Confusion? *Dig Surg*, 2000; 17(4):323-8. Review.
Tsilada J, Talapro L, Osjogirp S, et al. Giant Cystic Lymphangioma of the Small Bowel Mesentery. Report of a Case. *Surg Today* 2002; 32(8):734-737.
Kim BS, Sbar AD and Jatoi I. Intra-abdominal Cystic Lymphangioma. *Surg* 2000; 128(5):834-835.
Mabrut JY, Grandjean JP, Henry L, Chappuis JP, et al. Mesenteric and Mesocolic Cystic Lymphangiomas. Diagnostic and Therapeutic Management. *Ann Chir (France)* 2002; 127(5):343-349.

Glendale (Glendale Pathology Association) - Papillary carcinoma of thyroid, sclerosing type

Granada Hills - Papillary carcinoma
Orange (UCI Medical Center Residents) - Papillary carcinoma with focal tall cell features
San Fernando (K-R San Fernando Valley Group) - Papillary carcinoma, thyroid, high grade (1); papillary carcinoma, high grade (1)
San Francisco (San Francisco General Hospital) - Papillary thyroid carcinoma
Arizona (Phoenix Memorial Hospital) - Papillary carcinoma, tall cell variant
Arkansas (University of Arkansas Medical Center) - Tall cell variant papillary carcinoma, thyroid
Colorado, Denver - Papillary carcinoma
Florida (Winter Haven Hospital) - Diffusely invasive papillary carcinoma
Georgia, Decatur - Papillary carcinoma of thyroid, tall cell variant
Illinois (Heartland Regional Medical Center) - Papillary carcinoma, tall cell variant
Kansas (Coffeyville Regional Medical Center) - Papillary carcinoma (tall cell variant), thyroid gland
Kansas (Kansas University Medical Center) - Papillary thyroid carcinoma
Kansas, Manhattan - Papillary carcinoma
Kentucky (University of Louisville Hospital) - Papillary carcinoma with nodular fasciitis variant vs. papillary carcinoma with previous FNA site
Louisiana (LSUHSC Shreveport) - Papillary thyroid carcinoma
Louisiana, Metairie - Papillary carcinoma (tall cell variant)
Maryland (Johns Hopkins Medical Center) - Papillary thyroid carcinoma, tall cell
Maryland (National Naval Medical Center) - Papillary thyroid carcinoma
New York (Nassau University Medical Center) - Papillary carcinoma
New York (New York Presbyterian - Cornell Residents) - Papillary thyroid carcinoma, tall cell variant
Ohio, Columbus - Carcinoma
Pennsylvania (Allegheny General Hospital) - Papillary carcinoma
Pennsylvania (Drexel University College of Medicine) - Papillary carcinoma of thyroid, tall cell variant
Pennsylvania (Memorial Medical Center) - Papillary carcinoma, columnar variant
Pennsylvania (UPMC/Shadyside) - Well-differentiated carcinoma, not otherwise specified
Texas (Scott & White Hospital) - Papillary carcinoma
Texas, Lubbock - Papillary carcinoma, tall columnar cell variant
Texas, San Antonio - Papillary thyroid carcinoma
Washington, D.C. - Papillary carcinoma, tall cell variant
Canada (University of Calgary, Foothills Hospital) - Papillary carcinoma of thyroid, tall cell variant
China (Sir Run Run Shaw Hospital) - Thyroid papillary carcinoma
Italy, Naples - Papillary thyroid carcinoma, tall cell variant
Japan (Hamamatsu University School of Medicine) - Papillary carcinoma with focal anaplastic portion
Japan, Chiba - Papillary carcinoma of thyroid gland, tall and columnar type cell variant
Qatar, Doha - Papillary carcinoma, thyroid (columnar cell variant)
Saudi Arabia, Al Hassa - Papillary thyroid carcinoma, tall cell variant
Spain (Povisa) - Papillary carcinoma, columnar cell variant
The Netherlands, Amstelveen - Papillary carcinoma of the thyroid

Case 2 - Diagnosis:

Papillary carcinoma of the thyroid
 T-96000, M-80503

Case 2 - References:

Hundahl SA, Cady B, Cunningham MP, et al: Initial Results From a Prospective Cohort Study of 5583 Cases of Thyroid Carcinoma Treated in the United States During 1996. U.S. and German Thyroid Cancer Study Group. An American College of Surgeons Commission on Cancer Patient Care Evaluation Study. *Cancer*, 2000 Jul 1; 89(1):202-17.
 Akslen LA, LiVolsi VA: Prognostic Significance of Histologic Grading Compared With Subclassification of Papillary Thyroid Carcinoma. *Cancer*, 2000 Apr 15; 88(8):1902-8.
 Grigsby PW, Baglan K, Siegel BA: Surveillance of Patients to Detect Recurrent Thyroid Carcinoma. *Cancer*, 1999 Feb 15; 85(4):945-51.
 Farahati J, Demidchik EP FP, Biko J, Reiners C: Inverse Association Between Age At the Time of Radiation Exposure and Extent Of Disease in Cases of Radiation-Induced Childhood Carcinoma. *Cancer*, 2000 Mar 15; 88(6):1470-6.
 Mazzaferri EL, Jhiang SM: Long-Term Impact of Initial Surgical and Medical Therapy on Papillary and Follicular Thyroid Cancer. *Am J Med*, 1994 Nov; 97(15):418-28.

Case No. 3, Accession No. 29025

February, 2004

Glendale (Glendale Pathology Association) - Lymphocyte-rich thymoma

Granada Hills - Burkitt's lymphoma, small non-cleaved cell lymphoma
Orange (UCI Medical Center Residents) - Thymoma
San Fernando (K-R San Fernando Valley Group) - Thymoma, probably benign (1); thymoma (1)
San Francisco (San Francisco General Hospital) - Thymoma
Arizona (Phoenix Memorial Hospital) - Follicular dendritic cell sarcoma/tumor
Arkansas (University of Arkansas Medical Center) - Thymoma
Colorado, Denver - Thymoma
Florida (Winter Haven Hospital) - Thymoma
Georgia, Decatur - Thymoma, lymphocyte predominant
Illinois (Heartland Regional Medical Center) - Thymoma, lymphocytic predominant
Kansas (Coffeyville Regional Medical Center) - Thymoma (lymphocyte predominant with starry sky appearance)
Kansas (Kansas University Medical Center) - Thymoma
Kansas, Manhattan - Thymoma, encapsulated
Kentucky (University of Louisville Hospital) - Benign thymoma, lymphocyte predominant
Louisiana (LSUHSC Shreveport) - Thymoma
Louisiana, Metairie - Thymoma (type A)
Maryland (Johns Hopkins Medical Center) - Thymoma
Maryland (National Naval Medical Center) - Thymoma, mixed
New York (Nassau University Medical Center) - Thymoma
New York (New York Presbyterian - Cornell Residents) - Thymoma
Ohio, Columbus - Thymoma
Pennsylvania (Allegheny General Hospital) - Lymphocytic thymoma
Pennsylvania (Drexel University College of Medicine) - Malignant thymoma
Pennsylvania (Memorial Medical Center) - Lymphoma
Pennsylvania (UPMC/Shadyside) - Thymoma, lymphocyte predominant
Texas (Scott & White Hospital) - Thymoma
Texas, Lubbock - Thymoma
Texas, San Antonio - Thymoma
Washington, D.C. - Malignant lymphoma, small cell, diffuse
Canada (University of Calgary, Foothills Hospital) - Type B1 thymoma
China (Sir Run Run Shaw Hospital) - Type B2 thymoma
Italy, Naples - Thymoma (mixed lymphocytic and epithelial)
Japan (Hamamatsu University School of Medicine) - Thymoma, type B1
Japan, Chiba - Thymoma, mixed lymphocytic and epithelial type
Qatar, Doha - Thymoma
Saudi Arabia, Al Hassa - Thymoma
Spain (Povisa) - Lymphocyte predominant thymoma
The Netherlands, Amstelveen - Type B/AB thymoma of the mediastinum

Case 3 - Diagnosis:

Thymoma, mediastinum
 T-Y2300, M-85800

Case 3 - References:

Chhieng DC, Rose D, Ludwig Me, Zabowski MF: Cytology of Thymomas: Emphasis on Morphology and Correlation With Histologic Subtypes. *Cancer*, 2000 Feb 25; 90(1):24-32.
 Pescarmona E, Rendina EA, Venuta F, et al: The Prognostic Implications of Thymoma Histologic Subtyping: A Study of 80 Consecutive Cases. *Am J Clin Pathol*, 1990 Feb; 93(2):193-5.
 Ogawa K, Uno T, Toita T, et al. Postoperative Radiotherapy for Patients with Completely Resected Thymoma. A Multi-Institutional, Retrospective Review of 103 Patients. *Cancer* 2002; 94(5):1405-1413.
 Haniuda M, Kondo R, Numanami H, et al. Recurrence of Thymoma. Clinicopathological features, Re-Operation, and Outcome. *J Surg Oncol* 2001; 183-188.

Case No. 4, Accession No. 29796

February, 2004

Glendale (Glendale Pathology Association) - Infiltrating ductal carcinoma with Paget's disease of nipple
Granada Hills - Fatty necrosis with foreign body giant cell reaction
Orange (UCI Medical Center Residents) - Infiltrating ductal carcinoma
San Fernando (K-R San Fernando Valley Group) - Invasive duct carcinoma, possibly medullary, plus silicone granuloma (1);
 invasive duct carcinoma + silicone granuloma (1)

San Francisco (San Francisco General Hospital) - Ductal carcinoma and silicone
Arizona (Phoenix Memorial Hospital) - Invasive apocrine carcinoma
Arkansas (University of Arkansas Medical Center) - Mammary duct cell carcinoma, NOS; silicone granulomatosis
Colorado, Denver - Invasive ductal carcinoma
Florida (Winter Haven Hospital) - Invasive ductal carcinoma with silicone background
Georgia, Decatur - Infiltrating ductal carcinoma
Illinois (Heartland Regional Medical Center) - Apocrine carcinoma; silicone mastopathy
Kansas (Coffeyville Regional Medical Center) - Apocrine papillary carcinoma, breast; silicone granuloma
Kansas (Kansas University Medical Center) - Apocrine breast carcinoma
Kansas, Manhattan - Invasive ductal adenocarcinoma, apocrine type
Kentucky (University of Louisville Hospital) - Apocrine carcinoma
Louisiana (LSUHSC Shreveport) - Infiltrating ductal carcinoma with apocrine features, silicone reaction
Louisiana, Metairie - Invasive duct carcinoma. Silicone granuloma.
Maryland (Johns Hopkins Medical Center) - Ductal carcinoma
Maryland (National Naval Medical Center) - Apocrine carcinoma, silicone granulomatosis
New York (Nassau University Medical Center) - Infiltrating ductal carcinoma
New York (New York Presbyterian - Cornell Residents) - Infiltrating duct carcinoma, silicone
Ohio, Columbus - Adenocarcinoma, silicone reaction
Pennsylvania (Allegheny General Hospital) - Invasive ductal carcinoma
Pennsylvania (Drexel University College of Medicine) - Invasive ductal carcinoma of breast, apocrine type
Pennsylvania (Memorial Medical Center) - Infiltrating duct carcinoma with silicone granuloma
Pennsylvania (UPMC/Shadyside) - Invasive ductal carcinoma with apocrine features and background silicone
Texas (Scott & White Hospital) - High grade invasive duct carcinoma
Texas, Lubbock - Apocrine carcinoma
Texas, San Antonio - Invasive ductal carcinoma
Washington, D.C. - Apocrine carcinoma with Paget's disease
Canada (University of Calgary, Foothills Hospital) - Infiltrating duct carcinoma in a background of silicone mastopathy
China (Sir Run Run Shaw Hospital) - Adenocarcinoma
Italy, Naples - Apocrine ductal carcinoma arising in association with silicone reaction
Japan (Hamamatsu University School of Medicine) - Apocrine carcinoma
Japan, Chiba - Invasive apocrine carcinoma of right breast
Qatar, Doha - Mammary carcinoma of ductal type
Saudi Arabia, Al Hassa - Invasive ductal carcinoma
Spain (Povisa) - Apocrine carcinoma
The Netherlands, Amstelveen - Infiltrating ductal carcinoma, fat necrosis, and reactive changes caused by silicone injection

Case 4 - Diagnosis:

Duct carcinoma of breast with associated silicone mastopathy
 T-04000, M-85003

Case 4 - References:

Peng HL, Wu CC, Choi WM, et al. Breast Cancer Detection using Magnetic Resonance Imaging in Breasts Injected with Liquid Silicone. *Plast Reconstr Surg* 1999;104(7):2116-2120.
 van Diest PJ, Beekman WH and Hage JJ. Pathology of Silicone Leakage from Breast Implants. *J Clin Pathol* 1998; 51(7):493-497.
 Holmich LR, Friis S, Fryzek JP, et al. Incidence of Silicone Breast Implant Rupture. *Arch Surg* 2003; 138(7):801-806.

Case No. 5, Accession No. 28284

February, 2004

Glendale (Glendale Pathology Association) - Organizing thrombosed hemorrhoids
Granada Hills - Kaposi's sarcoma
Orange (UCI Medical Center Residents) - Kaposi's sarcoma
San Fernando (K-R San Fernando Valley Group) - Hemangiosarcoma (Kaposi); hemorrhoids (1); External & internal hemorrhoids, sclerosing angioma (1)
San Francisco (San Francisco General Hospital) - Kaposi's sarcoma
Arizona (Phoenix Memorial Hospital) - Kaposi's sarcoma
Arkansas (University of Arkansas Medical Center) - Thrombosed hemorrhoids, partially recanalized
Colorado, Denver - Kaposi's sarcoma
Florida (Winter Haven Hospital) - Thrombosed hemorrhoids
Georgia, Decatur - Thrombosis with organization (intravascular fasciitis)
Illinois (Heartland Regional Medical Center) - Hemorrhoids with thrombosis and organization

Kansas (Coffeyville Regional Medical Center) - Angiosarcoma, hemorrhoids
Kansas (Kansas University Medical Center) - Kaposi's sarcoma + hemorrhoids
Kansas, Manhattan - Thrombosed hemorrhoids with recanalization (Masson's lesion)
Kentucky (University of Louisville Hospital) - Low grade angiosarcoma vs. intravascular papillary endothelial hyperplasia
Louisiana (LSUHSC Shreveport) - Organizing thrombi
Louisiana, Metairie - Hemorrhoid. Neurofibroma.
Maryland (Johns Hopkins Medical Center) - Angiosarcoma
Maryland (National Naval Medical Center) - Kaposi's sarcoma
New York (Nassau University Medical Center) - Masson's tumor (thrombosed hemorrhoid)
New York (New York Presbyterian - Cornell Residents) - Masson's lesion
Ohio, Columbus - Hemorrhoids with organizing thrombi
Pennsylvania (Allegheny General Hospital) - Kaposi's sarcoma
Pennsylvania (Drexel University College of Medicine) - Malignant hemangioendothelioma
Pennsylvania (Memorial Medical Center) - Anal condyloma, angiosarcoma/Kaposi's sarcoma
Pennsylvania (UPMC/Shadyside) - Hemorrhoids with organizing thrombi
Texas (Scott & White Hospital) - Thrombosed hemorrhoids (DDX Kaposi's sarcoma)
Texas, Lubbock - Kaposi sarcoma
Texas, San Antonio - Thrombosed hemorrhoid
Washington, D.C. - Hemorrhoids, thrombosed
Canada (University of Calgary, Foothills Hospital) - Thrombosed hemorrhoids
China (Sir Run Run Shaw Hospital) - Mixed hemorrhoid, with organization of thrombus
Italy, Naples - Intravascular angiomatosis (Papillary endothelial hyperplasia)
Japan (Hamamatsu University School of Medicine) - Hemorrhoids with intravascular papillary endothelial hyperplasia
Japan, Chiba - Hemorrhoids with intravascular organizing thrombi
Qatar, Doha - Organizing thrombus with florid fibroblastic and endothelial proliferation (Masson's hemangioma)
Saudi Arabia, Al Hassa - Thrombosed piles
Spain (Povisa) - Intimal sarcoma
The Netherlands, Amstelveen - Hemorrhoid vessels with thrombosis and fibroblastic proliferation

Case 5 - Diagnosis:

Thrombosed hemorrhoids with partial organization (papillary endothelial hyperplasia)
 T-61980, M-32624

Case 5 - References:

Aulicino MR, Kaneko M, Unger PD: Excessive Endothelial Cell Proliferation Occurring in an Organizing Thyroid Hematoma: Report of a Case and Review of the Literature. *Endocr Pathol*, 1995 Summer; 6(2): 153-158.
 Yamamoto T, Marui T, Mizuno K: Recurrent Intravascular Papillary Endothelial Hyperplasia of the Toes. *Dermatology*, 2000; 200(1):72-4.
 Melato M, Constantinides F, Pandullo C, Rizzardi C: Masson's Pseudoangiosarcoma, Alias Intravascular Papillary Endothelial Hyperplasia, in Dissecting Aortic Aneurysm Caused By Cystic Medionecrosis. *Cardiovasc Pathol*, 2001 Sep-Oct, 10(5):247-9.
 Inaloz HS, Patel G, Knight AG: Recurrent Intravascular Papillary Endothelial Hyperplasia Developing From A Pyogenic Granuloma. *J Eur Acad Dermatol Venereol*, 2000 Mar; 15(2):156-8.

Case No. 6, Accession No. 29778

February, 2004

Glendale (Glendale Pathology Association) - Epithelioid leiomyoma
Granada Hills - Myxoid leiomyosarcoma
Orange (UCI Medical Center Residents) - Myxoid leiomyoma of uncertain malignant potential
San Fernando (K-R San Fernando Valley Group) - Myxoid, sometimes "cellular" leiomyoma (1); Myxoid leiomyoma (1)
San Francisco (San Francisco General Hospital) - Massive edema of uterus
Arizona (Phoenix Memorial Hospital) - Myxoid leiomyosarcoma
Arkansas (University of Arkansas Medical Center) - Myxoid leiomyoma
Colorado, Denver - Liposarcoma
Florida (Winter Haven Hospital) - Leiomyoma with degenerative changes
Georgia, Decatur - Massive edema of ovary
Illinois (Heartland Regional Medical Center) - Myxoid leiomyosarcoma
Kansas (Coffeyville Regional Medical Center) - Myxoid leiomyosarcoma, uterus
Kansas (Kansas University Medical Center) - Leiomyoma
Kansas, Manhattan - Myxoid liposarcoma

Kentucky (University of Louisville Hospital) - Myxoid leiomyoma vs. myxoid leiomyosarcoma
Louisiana (LSUHSC Shreveport) - Myxoid smooth muscle tumor, probably myxoid leiomyoma
Louisiana, Metairie - Leiomyoma with massive hydropic degeneration
Maryland (Johns Hopkins Medical Center) - Leiomyoma
Maryland (National Naval Medical Center) - Leiomyoma, myxoid
New York (Nassau University Medical Center) - Myxoid leiomyosarcoma
New York (New York Presbyterian - Cornell Residents) - Myxoid leiomyoma
Ohio, Columbus - Myxoid smooth muscle tumor
Pennsylvania (Allegheny General Hospital) - Myxoid leiomyoma
Pennsylvania (Drexel University College of Medicine) - Leiomyosarcoma, myxoid type
Pennsylvania (Memorial Medical Center) - Myxoid leiomyoma, leiomyosarcoma
Pennsylvania (UPMC/Shadyside) - Myxoid leiomyoma
Texas (Scott & White Hospital) - Leiomyoma with myxoid degeneration
Texas, Lubbock - Epithelioid leiomyoma
Texas, San Antonio - Myxoid LMS (leiomyosarcoma)
Washington, D.C. - Stromal nodule
Canada (University of Calgary, Foothills Hospital) - Myxoid leiomyoma
China (Sir Run Run Shaw Hospital) - Leiomyoma with mucinous degeneration
Italy, Naples - Myxoid smooth muscle tumor of uncertain malignant potential
Japan (Hamamatsu University School of Medicine) - Myxoid leiomyosarcoma
Japan, Chiba - Myxoid leiomyoma of uterus
Qatar, Doha - Leiomyoma with myxoid stroma
Saudi Arabia, Al Hassa - Leiomyoma with myxoid changes
Spain (Povisa) - Leiomyoblastoma
The Netherlands, Amstelveen - Edematous leiomyoma

Case 6 - Diagnosis:

Myxoid leiomyoma, uterus
 T-82000, M-88900

Consultation: Richard Kempson, M.D., Stanford University: "Myxoid leiomyoma."

Case 6 - References:

Hendrickson MR, Kempson RL: *Surgical Pathology of the Uterine Corpus*. Philadelphia. W.B. Saunders, 1980, pp 473-484.
 Clement PB, Young RH, Scully RE: Diffuse, Perinodular, and other Patterns of Hydropic Degeneration Within and Adjacent to Uterine Leiomyomas. Problems in Differential Diagnosis. *Am J Surg Pathol*, 1992 Jan; 16(1):26-32.
 Mazur MT, Kraus FT: Histogenesis of Morphologic Variations in Tumors of the Uterine Wall. *Am J Surg Pathol*, 1980 Feb; 4(1):59-74.

Case No. 7, Accession No. 28445

February, 2004

Glendale (Glendale Pathology Association) - Leiomyosarcoma
Granada Hills - Pleomorphic rhabdomyosarcoma
Orange (UCI Medical Center Residents) - Leiomyosarcoma
San Fernando (K-R San Fernando Valley Group) - Leiomyosarcoma (2)
San Francisco (San Francisco General Hospital) - Leiomyosarcoma versus rhabdomyosarcoma
Arizona (Phoenix Memorial Hospital) - Leiomyosarcoma, high grade
Arkansas (University of Arkansas Medical Center) - Leiomyosarcoma
Colorado, Denver - Leiomyosarcoma
Florida (Winter Haven Hospital) - Leiomyosarcoma
Georgia, Decatur - Leiomyosarcoma
Illinois (Heartland Regional Medical Center) - Leiomyosarcoma
Kansas (Coffeyville Regional Medical Center) - Leiomyosarcoma, abdomen
Kansas (Kansas University Medical Center) - Leiomyosarcoma
Kansas, Manhattan - Leiomyosarcoma
Kentucky (University of Louisville Hospital) - Leiomyosarcoma
Louisiana (LSUHSC Shreveport) - Leiomyosarcoma
Louisiana, Metairie - Leiomyosarcoma
Maryland (Johns Hopkins Medical Center) - Leiomyosarcoma
Maryland (National Naval Medical Center) - Leiomyosarcoma

New York (Nassau University Medical Center) - Leiomyosarcoma
New York (New York Presbyterian - Cornell Residents) - Leiomyosarcoma
Ohio, Columbus - Leiomyosarcoma
Pennsylvania (Allegheny General Hospital) - Leiomyosarcoma
Pennsylvania (Drexel University College of Medicine) - Leiomyosarcoma
Pennsylvania (Memorial Medical Center) - Leiomyosarcoma
Pennsylvania (UPMC/Shadyside) - Leiomyosarcoma
Texas (Scott & White Hospital) - Leiomyosarcoma
Texas, Lubbock - Leiomyosarcoma
Texas, San Antonio - LMS (leiomyosarcoma)
Washington, D.C. - Leiomyosarcoma
Canada (University of Calgary, Foothills Hospital) - Leiomyosarcoma
China (Sir Run Run Shaw Hospital) - Leiomyosarcoma
Italy, Naples - Leiomyosarcoma
Japan (Hamamatsu University School of Medicine) - Leiomyosarcoma
Japan, Chiba - Leiomyosarcoma of abdomen
Qatar, Doha - Leiomyosarcoma, low grade
Saudi Arabia, Al Hassa - Leiomyosarcoma
Spain (Povisa) - Leiomyosarcoma
The Netherlands, Amstelveen - Leiomyosarcoma

Case 7 - Diagnosis:

Leiomyosarcoma, abdomen
 T-Y4100, M-88903

Case 7 - References:

Kurugoglu S, Ogut G, Mihanli I, et al: Abdominal Leiomyosarcomas: Radiologic Appearances At Various Locations. *Eur Radiol*, 2002 Dec; 12(12):2933-42.
 Granmayeh M, Jonsson K, McFarland W, Wallace S: Angiography of Abdominal Leiomyosarcoma: *AJR. Am J Roentgenol*, 1978 Apr; 130(4):725-30.
 Clary BM, DeMatteo RP, Lewis JJ, et al: Gastrointestinal Stromal Tumors and Leiomyosarcoma of the Abdomen and Retroperitoneum: A Clinical Comparison. *Ann Surg Onc*, 2001 May; 8(4):290-9.
 Bowers BA, Watters CR, Szpak CA, Meyers WC: Abdominal Leiomyosarcoma: Aggressive Management. *South Med J*, 1989 Mar; 82(3):313-7.

Case No. 8, Accession No. 28389

February, 2004

Glendale (Glendale Pathology Association) - Extra-intestinal GIST
Granada Hills - Fibrosarcoma
Orange (UCI Medical Center Residents) - Malignant extra-gastrointestinal stromal tumor, epithelioid type
San Fernando (K-R San Fernando Valley Group) - Liposarcoma (1); Round cell liposarcoma (1)
San Francisco (San Francisco General Hospital) - Liposarcoma, mixed
Arizona (Phoenix Memorial Hospital) - Angiosarcoma
Arkansas (University of Arkansas Medical Center) - Sarcoma (favor leiomyosarcoma)
Colorado, Denver - Undifferentiated sarcoma
Florida (Winter Haven Hospital) - Malignant paraganglioma
Georgia, Decatur - Gastrointestinal stromal tumor
Illinois (Heartland Regional Medical Center) - Spindle cell sarcoma, favor fibrosarcoma
Kansas (Coffeyville Regional Medical Center) - Sarcoma - MFH? Clear cell?, retroperitoneal mass
Kansas (Kansas University Medical Center) - Leiomyosarcoma
Kansas, Manhattan - GIST (gastrointestinal stromal tumor)
Kentucky (University of Louisville Hospital) - Liposarcoma
Louisiana (LSUHSC Shreveport) - Malignant spindle cell neoplasm - possibly GIST versus malignant fibrous histiocytoma
Louisiana, Metairie - Hemangiopericytoma
Maryland (Johns Hopkins Medical Center) - Epithelioid MPNST (malignant peripheral nerve sheath tumor)
Maryland (National Naval Medical Center) - Gastrointestinal stromal tumor, malignant
New York (Nassau University Medical Center) - Dedifferentiated/Pleomorphic liposarcoma
New York (New York Presbyterian - Cornell Residents) - Malignant GIST vs. paraganglioma
Ohio, Columbus - Spindle cell sarcoma
Pennsylvania (Allegheny General Hospital) - High grade sarcoma, dedifferentiated liposarcoma

Pennsylvania (Drexel University College of Medicine) - Malignant hemangiopericytoma
Pennsylvania (Memorial Medical Center) - Dedifferentiated liposarcoma
Pennsylvania (UPMC/Shadyside) - Malignant retroperitoneal paraganglioma
Texas (Scott & White Hospital) - High grade spindle cell sarcoma (favor MPNST)
Texas, Lubbock - Liposarcoma
Texas, San Antonio - GIST (gastrointestinal stromal tumor)
Washington, D.C. - Myxoid MFH (malignant fibrous histiocytoma)
Canada (University of Calgary, Foothills Hospital) - Liposarcoma
China (Sir Run Run Shaw Hospital) - Solitary fibrous tumor
Japan (Hamamatsu University School of Medicine) - GIST (gastrointestinal stromal tumor)
Japan, Chiba - Synovial sarcoma
Qatar, Doha - Undifferentiated sarcoma, probably a dedifferentiated liposarcoma (2); Malignant GIST with epithelioid differentiation (2)
Saudi Arabia, Al Hassa - High grade sarcoma
Spain (Povisa) - Sarcoma
The Netherlands, Amstelveen - Sarcoma, N.O.S. (liposarcoma?)

Case 8 - Diagnosis:

High grade spindle cell sarcoma (NOS), retroperitoneum
 T-Y4600, M-88013

Case 8 - References:

Bradley JC, Caplan R: Giant Retroperitoneal Sarcoma: A Case Report and Review of the Management of Retroperitoneal Sarcomas. *Am Surg*, 2002 Jan; 68(1):52-6. Review.
 McGrath PC, Neifeld JP, Lawrence W Jr, et al: Improved Survival Following Complete Excision of Retroperitoneal Sarcomas. *Ann Surg*, 1984 Aug; 200(2):200-4.
 Bautista N, Su W, O'Connell TX: Retroperitoneal Soft Tissue Sarcomas: Prognosis and Treatment of Primary and Recurrent Disease. *Am Surg*, 2000 Sep; 66(9):832-6.
 Malerba M, Doglietto GB, Pacelli F, et al: Primary Retroperitoneal Soft Tissue Sarcomas: Results of Aggressive Surgical Treatment. *World J Surg*, 1999 Jul; 23(7):670-5.

Case No. 9, Accession No. 29785

February, 2004

Glendale (Glendale Pathology Association) - Chordoma
Granada Hills - Chordoma
Orange (UCI Medical Center Residents) - Chondroid chordoma
San Fernando (K-R San Fernando Valley Group) - Chondroid invasion by ? prostatic cancer ? (1); Metastatic carcinoma (i.e. prostate) (1)
San Francisco (San Francisco General Hospital) - Chordoma
Arizona (Phoenix Memorial Hospital) - Chordoma
Arkansas (University of Arkansas Medical Center) - Chordoma
Colorado, Denver - Poorly-differentiated carcinoma
Florida (Winter Haven Hospital) - Chordoma
Georgia, Decatur - Chordoma
Illinois (Heartland Regional Medical Center) - Chordoma
Kansas (Coffeyville Regional Medical Center) - Chordoma, sacrum
Kansas (Kansas University Medical Center) - Chordoma
Kansas, Manhattan - Chordoma
Kentucky (University of Louisville Hospital) - Chondroid chordoma
Louisiana (LSUHSC Shreveport) - Chordoma
Louisiana, Metairie - Chordoma
Maryland (Johns Hopkins Medical Center) - Chordoma
Maryland (National Naval Medical Center) - Chordoma
New York (Nassau University Medical Center) - Chondroid chordoma
New York (New York Presbyterian - Cornell Residents) - Chordoma
Ohio, Columbus - Chordoma
Pennsylvania (Allegheny General Hospital) - Chordoma
Pennsylvania (Drexel University College of Medicine) - Chordoma
Pennsylvania (Memorial Medical Center) - Chordoma
Pennsylvania (UPMC/Shadyside) - Chordoma

Texas (Scott & White Hospital) - Chordoma
Texas, Lubbock - Chordoma
Texas, San Antonio - Chordoma
Washington, D.C. - Chordoma
Canada (University of Calgary, Foothills Hospital) - Chordoma
China (Sir Run Run Shaw Hospital) - Chordoma
Italy, Naples - Chordoma
Japan (Hamamatsu University School of Medicine) - Chordoma
Japan, Chiba - Chordoma
Qatar, Doha - Chordoma
Saudi Arabia, Al Hassa - Chordoma
Spain (Povisa) - Chondroid chordoma
The Netherlands, Amstelveen - Sacral chordoma

Case 9 - Diagnosis:

Chordoma, sacrum
 T-10800, M-93703

Case 9 - References:

Thilmann C, Schulz-Ertner D, Zabel A, et al: Intensity-Modulated Radiotherapy of Sacral Chordoma--A Case Report and A Comparison With Stereotactic Conformal Radiotherapy. *Acta Oncol*, 2004; 41(4):395-9.
 McMaster ML, Goldstein Am, Bromley CM: Chordoma: Incidence and Survival Patterns in the United States, 1973-1995. *Cancer Causes Control*, 2001 Jan; 12(1):1-11.
 Scheil S, Bruderlein S, Liehr T, et al: Genome-Wide Analysis of Sixteen Chordomas By Comparative Genomic Hybridization And Cytogenetics of the First Human Chordoma Cell Line, U-CH1. *Genes Chromosomes Cancer*, 2001 Nov; 32(3):203-11.
 Yonemoto T, Tatzaki S, Takenouchi T, et al. The Surgical Management of Sacrococcygeal Chordoma. *Cancer* 1999; 85(4):878-883.
 Layfield LJ, Liu K, Dodd LG, et al. "Dedifferentiated" Chordoma. A Case Report of the Cytomorphologic Findings on Fine-Needle Aspiration. *Diagn Cytopathol* 1998; 19(5):378-381.

Case No. 10, Accession No. 29740

February, 2004

Glendale (Glendale Pathology Association) - High-grade chondroblastic osteosarcoma
Granada Hills - Mesenchymal chondrosarcoma
Orange (UCI Medical Center Residents) - Osteosarcoma
San Fernando (K-R San Fernando Valley Group) - Chondrosarcoma (r.o. osteogenic) (1); chondrosarcoma (1)
San Francisco (San Francisco General Hospital) - Chondrosarcoma, Grade II-III
Arizona (Phoenix Memorial Hospital) - Extra-skeletal mesenchymal chondrosarcoma
Arkansas (University of Arkansas Medical Center) - Osteosarcoma
Colorado, Denver - Chondrosarcoma
Florida (Winter Haven Hospital) - Chondrosarcoma
Georgia, Decatur - Chondrosarcoma with dedifferentiation
Illinois (Heartland Regional Medical Center) - Osteosarcoma
Kansas (Coffeyville Regional Medical Center) - Chondrosarcoma, chest wall
Kansas (Kansas University Medical Center) - Osteosarcoma with chondroid differentiation
Kansas, Manhattan - Osteosarcoma
Kentucky (University of Louisville Hospital) - Chondrosarcoma
Louisiana (LSUHSC Shreveport) - Chondroblastic osteosarcoma
Louisiana, Metairie - Chondrosarcoma, high grade
Maryland (Johns Hopkins Medical Center) - Osteosarcoma
Maryland (National Naval Medical Center) - Osteosarcoma (10); chondrosarcoma (1); dedifferentiated liposarcoma (1)
New York (Nassau University Medical Center) - Extraskeletal chondrosarcoma
New York (New York Presbyterian - Cornell Residents) - Pleomorphic sarcoma, NOS, possibly radiation induced
Ohio, Columbus - Osteosarcoma
Pennsylvania (Allegheny General Hospital) - Chondroblastic osteosarcoma
Pennsylvania (Drexel University College of Medicine) - Post-radiation high grade sarcoma with areas of chondrosarcoma and osteosarcoma (malignant mesenchymoma)
Pennsylvania (Memorial Medical Center) - Mesenchymal chondrosarcoma
Pennsylvania (UPMC/Shadyside) - Post-radiation sarcoma
Texas (Scott & White Hospital) - Extraskeletal osteosarcoma

Texas, Lubbock - Chondrosarcoma
Texas, San Antonio - Chondroblastic osteosarcoma
Washington, D.C. - Chondrosarcoma
Canada (University of Calgary, Foothills Hospital) - Chondrosarcoma
China (Sir Run Run Shaw Hospital) - Osteo/chondrosarcoma
Italy, Naples - Osteosarcoma
Japan (Hamamatsu University School of Medicine) - Chondrosarcoma, Grade III
Japan, Chiba - Chondrosarcoma of chest wall
Qatar, Doha - Chondrosarcoma, high grade
Saudi Arabia, Al Hassa - Post-irradiation osteosarcoma
Spain (Povisa) - Chondrosarcoma
The Netherlands, Amstelveen - Chondrosarcoma

Case 10 - Diagnosis:

High grade chondrosarcoma, chest wall

T-Y2150, M-92203

(Directors Note: Some slides show dedifferentiation into an MFH-like phenotype. drc)

Case 10 - References:

- Andrion A, Mazzucco G, Bernardi P, Mollo F: Sarcomatous Tumors of the Chest Wall With Osteochondroid Differentiation: Evidence of Mesothelial Origin. *Am J Surg Pathol*, 1989 Aug; 13(3):707-12.
- Coindre JM, Terrier P, Guillou L, et al: Predictive Value of Grade For Metastasis Development in the Main Histologic Types of Adult Soft Tissue Sarcoma: A Study of 1240 Patients From the French Federation of Cancer Centers Sarcoma Group. *Cancer*, 2001 May 15; 91(10):1914-26.
- Fechner RE, Mills SE: *Tumors of the Bones and Joints*. Atlas of Tumor Pathology, Third Series, Fascicle 8. Washington, D.C., Armed Forces Institute of Pathology, 1993; pp 112-5.
- Erassica FJ, Unni KK, Beabout JW, Sim FH: Dedifferentiated Chondrosarcoma: A Report of the Clinicopathological Features And Treatment of 78 Cases. *J Bone Joint Surg Am*, 1986 Oct; 68A(8):1197-205.