



CALIFORNIA
TUMOR TISSUE REGISTRY

GENERAL PATHOLOGY

Minutes – Subscription A

February, 2005



SUGGESTED READING (General Topics from Recent Literature):

- Interventional Magnetic Resonance Imaging Cryotherapy of Uterine Fibroid Tumors: Preliminary Observation. Cowan BD, Sewell PE, Howard JC, et al. *Am J Obstet Gynecol* 2002; 186(6):1183-1187.
- MR Imaging-Guided Focused Ultrasound Surgery of Uterine Leiomyomas: A Feasibility Study. Tempny CM, Stewart EA, McDannold N, Quade BJ, et al. *Radiol* 2003; 226(3):897-905.
- Focused Ultrasound Treatment of Uterine Fibroid Tumors: Safety and Feasibility of a Noninvasive Thermoablative Technique. *Am J Obstet Gynecol* 2003; 189(1):48-54.

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FILE DIAGNOSES

(If possible, submit answers on website at www.cttr.org.
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Case 1:

Placental mesenchymoma
T-88100, M-89901

Case 2:

Ameloblastic fibroma, mandible
T-10180, M-93300

Case 3:

Intracystic papillary carcinoma, breast
T-04000, M-80503

Case 4:

Diffuse large B-cell lymphoma, immunoblastic type, breast
T-04000, M-96123

Case 5:

Hodgkin’s lymphoma, predominantly nodular sclerosing, axilla
T-Y8100, M-96503

Case 6:

Warthin-like papillary thyroid carcinoma (aka “papillary Hurthle cell carcinoma with lymphocytic stroma”), thyroid
T-96000, M-82903

Case 7:

Adrenal neoplasm, probably cortical adenocarcinoma, with neuroendocrine differentiation, adrenal gland
T-93000, M-83703

Case 8:

Solid pseudopapillary tumor, pancreas
T-59000, M-80001

Case 9:

Intramuscular myxoma, thigh
T-Y9100, M-88400

Case 10:

Cellular schwannoma, retroperitoneum
T-Y4600, M-95600

Case Submissions by Study Group

Case No. 1, Accession No. 29351

February 2005

Alameda (Alameda County Medical Center) - Inflammatory pseudotumor
Baldwin Park (Kaiser Permanente) - Leiomyoma, placental vs. uterine (1); Leiomyoma (2)
Glendale - Inflammatory myofibroblastic tumor
Irvine (University of California) - Decidual hyperplasia
Laguna (Laguna Pathology Medical Group) - Chorangioma
Loma Linda University Medical Center Residents - Placental site nodule
Long Beach (Lakewood Regional Medical Center) - Leiomyoma (7)
Michigan (Oakwood Hospital) - Gestational myoma
Monterey Park (Garfield Medical Center) - Leiomyoma consistent with decidual change
Monterey Park (Monterey Peninsula Pathologists) - Nodular fasciitis
Oakland (Kaiser Permanente) - Leiomyoma
Orange (Orange County Medical Group) - Decidua
Sacramento (University of California Davis) - Chorangioma
San Diego (Naval Medical Center) - Intraplacental leiomyoma
San Francisco (San Francisco General Hospital) - Mesenchymoma
Santa Rosa (Santa Rosa Memorial Hospital) - Chorangioma with prominent fibrous component (1); Chorioangioma (1); Chorioangioma with extensive stromal component (1)
Ventura - Chorioangioma
Arizona (Maryvale Medical Center) - Intraplacental leiomyoma
Colorado, Evergreen - Chorangioma-cellular type
Florida (Baptist Hospital) - Mesenchymoma, mixed cell type (1); Fibrous mesenchymoma; Chorangioma, fibrous variant (1); Mesenchymoma (1);
Florida (Munroe Medical Center) - Placental site nodule
Florida, Tallahassee - Solitary fibrous tumor
Florida (Winter Haven Hospital) - Neurofibroma
Illinois, Burr Ridge - Angiomyxoma
Illinois (Northwestern Memorial Hospital) - Leiomyoma consistent with pregnancy induced changes
Illinois, Oak Brook - Mesenchymal dysplasia
Indiana (Howard Community Hospital) - Vascular leiomyoma of placenta
Louisiana (Louisiana State University Health Science Center) - Pseudosarcomatous myofibroblastic proliferation
Maryland (Johns Hopkins Hospital) - Benign mixed mesodermal (epithelial-stromal) tumor (1); Nodular fasciitis vs. inflammation myofibroblastic tumor (1)
Maryland (National Naval Medical Center) - Diffuse mesenchymal dysplasia, placenta
Massachusetts (Berkshire Medical Center) - Leiomyoma
Massachusetts (New England Medical Center) - Sclerosing chorangioma
Michigan (St. Joseph Mercy Hospital) - Chorangioma
Minnesota - Inflammatory pseudotumor
Minnesota (Fairview Southdale Hospital) - Nodular fasciitis
New York (Nassau University Medical Center) - Chorangioma (fibroangiomyxoma)
New York (Stony Brook University Hospital Residents) - Leiomyoma
New York (Westchester Medical Center) - Placental leiomyoma
North Carolina (Mountain Area Pathology) - ? chorangioma, cellular type (1); Myometrium/benign smooth muscle tumor (1); Inflammatory myofibroblastic tumor vs. cellular chorangioma (1); Cellular chorangioma (1)
Ohio (McCullough-Hyde Memorial Hospital) - Decidualized stromal nodule
Ohio (Medical College of Ohio) - Mesenchymoma
Pennsylvania (Allegheny General Hospital) - Spindle cell tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Leiomyoma
Pennsylvania (Drexel University College of Medicine) - Reactive fibroblastic lesion in placenta
Pennsylvania (Lehigh Valley Hospital) - Ganaglioneuroma
Pennsylvania (Magee Women's Hospital) - Myofibroblastic tumor
Pennsylvania (Mt. Nittany Medical Center) - Decidual nodule, placenta
Pennsylvania (Pennsylvania Hospital) - Decidual pseudotumor
Texas, Lubbock - Hemangiopericytoma
Texas (Propath Associates) - Focal ischemia, hydropic change (2)
Texas (Scott & White Memorial Hospital) - Leiomyoma
Washington, Vancouver - Leiomyoma or nodular fasciitis
West Virginia (Greenbrier Valley Medical Center) - Placental leiomyoma
Wisconsin (Bellin Hospital) - Leiomyoma
Australia (North Queensland Pathology) - Placental leiomyoma

Australia (Royal Prince Alfred Hospital) - Benign deciduoma
Brazil (UNIFES/EPM) - Hemangioma with exuberant myxoid stroma
Canada (Foothills Medical Center) - Leiomyoma
Canada (Woodstock General Hospital) - Teratoma, placenta
Hong Kong (Hong Kong Baptist Hospital) - Spindle cell and epithelial tumour
Italy, Naples - Nodular fasciitis
Netherlands, Amsterdam - Fibroma
Puerto Rico (University of Puerto Rico) - Intraplacental leiomyoma
Qatar - Placental leiomyoma

Case 1 - Diagnosis:

Placental mesenchymoma

T-88100, M-89901

Case 1 – References:

Lewis SH, et. al. Placental Mesenchymoma. Pathology of the Placenta, 2nd Ed., Churchill Livingstone, 1999, pp 301-303.

Case No. 2, Accession No. 29943

February 2005

Alameda (Alameda County Medical Center) - Ameloblastic fibroma
Baldwin Park (Kaiser Permanente) - Ameloblastoma (3)
Glendale - Ameloblastic fibroma
Irvine (University of California) - Ameloblastic fibroma
Laguna (Laguna Pathology Medical Group) - Ameloblastic fibroma
Loma Linda University Medical Center Residents) - Ameloblastic fibroma
Long Beach (Lakewood Regional Medical) - Ameloblastoma (7)
Michigan (Oakwood Hospital) - Ameloblastic fibroma
Monterey Park (Garfield Medical Center) - Ameloblastic fibroma
Monterey Park (Monterey Peninsula Pathologists) - Ameloblastic fibroma
Oakland (Kaiser Permanente) - Ameloblastic fibroma
Orange (Orange County Medical Group) - Ameloblastic fibroma
Sacramento (University of California Davis) - Ameloblastic fibroma
San Diego (Naval Medical Center) - Ameloblastic fibroma
San Francisco (San Francisco General Hospital) - Ameloblastoma
Santa Rosa (Santa Rosa Memorial Hospital) - Ameloblastic fibroma (3)
Ventura - Ameloblastoma
Arizona (Maryvale Medical Center) - Ameloblastoma
Colorado, Evergreen - Ameloblastic fibroma
Florida (Baptist Hospital) - Ameloblastic fibroma (5)
Florida (Munroe Medical Center) - Ameloblastic fibroma
Florida, Tallahassee - Ameloblastic fibroma
Florida (Winter Haven Hospital) - Ameloblastic fibroma
Illinois, Burr Ridge - Ameloblastoma
Illinois (Northwestern Memorial Hospital) - Ameloblastic fibroma
Illinois, Oak Brook - Spindle cell carcinoma
Indiana (Howard Community Hospital) - Ameloblastic fibroma
Louisiana (Louisiana State University Health Science Center) - Ameloblastic fibroma
Maryland (Johns Hopkins Hospital) - Ameloblastic fibroma (2)
Maryland (National Naval Medical Center) - Ameloblastic fibroma
Massachusetts (Berkshire Medical Center) - Ameloblastic fibroma
Massachusetts (New England Medical Center) - Ameloblastic fibroma
Michigan (St. Joseph Mercy Hospital) - Ameloblastic fibroma
Minnesota - Ameloblastic fibroma
Minnesota (Fairview Southdale Hospital) - Ameloblastic fibroma
New Mexico (University of New Mexico) - Ameloblastic fibroma
New York (Nassau University Medical Center) - Ameloblastoma
New York (Stony Brook University Hospital Residents) - Ameloblastic fibroma
New York (Westchester Medical Center) - Ameloblastic fibroma
North Carolina (Mountain Area Pathology) - Ameloblastic fibroma (4)

Ohio (McCullough-Hyde Memorial Hospital) - Ameloblastic odontoma
Ohio (Medical College of Ohio) - Ameloblastic fibroma
Pennsylvania (Allegheny General Hospital) - Ameloblastoma
Pennsylvania (Conemaugh Memorial Medical Center) - Ameloblastoma
Pennsylvania (Drexel University College of Medicine) - Ameloblastic fibroma
Pennsylvania (Lehigh Valley Hospital) - Ameloblastoma
Pennsylvania (Magee Women's Hospital) - Ameloblastic fibroma
Pennsylvania (Mt. Nittany Medical Center) - Ameloblastic fibroma, mandible
Pennsylvania (Pennsylvania Hospital) - Ameloblastic fibroma
Texas, Lubbock - Ameloblastoma
Texas (Propath Associates) - Ameloblastic fibroma (2)
Texas (Scott & White Memorial Hospital) - Ameloblastic fibroma
Washington, Vancouver - Ameloblastic fibroma
West Virginia (Greenbrier Valley Medical Center) - Ameloblastic fibroma
Wisconsin (Bellin Hospital) - Ameloblastic fibroma
Australia (North Queensland Pathology) - Ameloblastic fibroma
Australia (Royal Prince Alfred Hospital) - Ameloblastic fibroma
Brazil (UNIFES/EPM) - Ameloblastic fibroma with dentin-like material
Canada (Foothills Medical Center) - Ameloblastic fibroma
Canada (Woodstock General Hospital) - Ameloblastoma, mandible
Hong Kong (Hong Kong Baptist Hospital) - Ameloblastic fibroma
Italy, Naples - Ameloblastoma
Netherlands, Amsterdam - Ameloblastic fibroma
Puerto Rico (University of Puerto Rico) - Ameloblastic fibroma
Qatar - Ameloblastic fibroma

Case 2 - Diagnosis:

Ameloblastic fibroma, mandible

T-10180, M-93300

Case 2 - References:

Takeda Y. Ameloblastic Fibroma and Related Lesions. Current Pathologic Concept. *Oral Oncol* 1999; 35(6):535-540.
 Kumar N and Jain S. Aspiration Cytology of Ameloblastic Fibroma. A Diagnostic Challenge. *Diagn Cytopathol* 2003; 29(2):101-104.
 Mohapatra PK, Choudhury AR and Parkash H. Ameloblastic Fibroma in the Midline of Mandible. A Case Report. *J Clin Pediatr Dent* 2000; 24(4):321-327.
 Takeda Y, Kaneko R and Suzuki A. Ameloblastic Fibrosarcoma in the Maxilla, Malignant Transformation of Ameloblastic Fibroma. *Virchows Arch A Pathol Anat Histopathol* 1984; 404(3):253-263.
 Choudhury M, Dhar S and Bajaj P. Primary Diagnosis of Ameloblastoma by Fine-Needle Aspiration. A Report of Two Cases. *Diagn Cytopathol* 2000; 23(6):414-416.

Case No. 3, Accession No. 29563

February 2005

Alameda (Alameda County Medical Center) - Papillary carcinoma
Baldwin Park (Kaiser Permanente) - Intracystic papillary carcinoma (3)
Glendale - Intracystic papillary carcinoma
Irvine (University of California) - Papillary carcinoma
Laguna (Laguna Pathology Medical Group) - Intracystic papillary carcinoma
Loma Linda University Medical Center Residents) - Papillary carcinoma of the breast
Long Beach (Lakewood Regional Medical Center) - Intracystic papillary carcinoma (7)
Michigan (Oakwood Hospital) - Papillary intracystic carcinoma
Monterey Park (Garfield Medical Center) - Atypical intraductal papilloma
Monterey Park (Monterey Peninsula Pathologists) - Intracystic papillary carcinoma
Oakland (Kaiser Permanente) - Intracystic papillary carcinoma
Orange (Orange County Medical Group) - Papilloma with atypia
Sacramento (University of California Davis) - Intracystic papillary carcinoma
San Diego (Naval Medical Center) - Intracystic papillary carcinoma
San Francisco (San Francisco General Hospital) - Papillary carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Intracystic carcinoma
Ventura - Intraductal papilloma

Arizona (Maryvale Medical Center) - Intracystic papillary carcinoma
Colorado, Evergreen - Intracystic papillary carcinoma
Florida (Baptist Hospital) - Papillary carcinoma (1); Well-differentiated papillary carcinoma (1); Intracystic papillary carcinoma (3)
Florida (Munroe Medical Center) - Intracystic papillary carcinoma
Florida, Tallahassee - Papillary carcinoma, minimally invasive, intraductal papillary carcinoma
Florida (Winter Haven Hospital) - Papillary adenocarcinoma
Illinois, Burr Ridge - Papillary carcinoma
Illinois (Northwestern Memorial Hospital) - Intracystic papillary carcinoma of breast
Illinois, Oak Brook - Intracystic papillary carcinoma
Indiana (Howard Community Hospital) - Intraductal papilloma
Louisiana (Louisiana State University Health Science Center) - Intraductal papillary carcinoma
Maryland (Johns Hopkins Hospital) - Intracystic papillary carcinoma (2)
Maryland (National Naval Medical Center) - Papillary carcinoma, invasive
Massachusetts (Berkshire Medical Center) - Papillary carcinoma
Massachusetts (New England Medical Center) - Intracystic papillary carcinoma
Michigan (St. Joseph Mercy Hospital) - Papillary carcinoma
Minnesota - Adenomyoepithelioma
Minnesota (Fairview Southdale Hospital) - Intracystic papillary carcinoma
New Mexico (University of New Mexico) - Intracystic papillary carcinoma
New York (Nassau University Medical Center) - Adenomyoepithelioma
New York (Stony Brook University Hospital Residents) - Intracystic papillary carcinoma
New York (Westchester Medical Center) - Intracystic papillary carcinoma vs. adenoma
North Carolina (Mountain Area Pathology) - Papillary carcinoma (4)
Ohio (McCullough-Hyde Memorial Hospital) - Papillary carcinoma of breast
Ohio (Medical College of Ohio) - Intracystic papillary carcinoma
Pennsylvania (Allegheny General Hospital) - Papillary carcinoma, intraductal
Pennsylvania (Conemaugh Memorial Medical Center) - Papillary carcinoma
Pennsylvania (Drexel University College of Medicine) - Papillary carcinoma
Pennsylvania (Lehigh Valley Hospital) - Papillary carcinoma
Pennsylvania (Magee Women's Hospital) - Papillary carcinoma of thyroid
Pennsylvania (Mt. Nittany Medical Center) - Papillary carcinoma, cystic, non-invasive, breast
Pennsylvania (Pennsylvania Hospital) - Intraductal papilloma
Texas, Lubbock - Papillary carcinoma
Texas (Propath Associates) - Intraductal papillary adenocarcinoma (2)
Texas (Scott & White Memorial Hospital) - Intracystic papillary carcinoma
Washington, Vancouver - Intracystic papillary carcinoma (non-invasive)
West Virginia (Greenbrier Valley Medical Center) - Intracystic papillary carcinoma
Wisconsin (Bellin Hospital) - Intraductal solid papillary carcinoma
Australia (North Queensland Pathology) - Partial infarcted intraductal papilloma
Australia (Royal Prince Alfred Hospital) - Intracystic papillary/cribiform carcinoma
Brazil (UNIFES/EPM) - Intracystic papillary carcinoma
Canada (Foothills Medical Center) - Intracystic papillary carcinoma
Canada (Woodstock General Hospital) - Papillary carcinoma, breast
Hong Kong (Hong Kong Baptist Hospital) - Apocrine adenoma
Italy, Naples - Adult granulosa cell tumor
Netherlands, Amsterdam - Syringocystadenoma papilliferum
Puerto Rico (University of Puerto Rico) - Intracystic papillary carcinoma
Qatar - Papillary adenocarcinoma

Case 3 - Diagnosis:

Intracystic papillary carcinoma, breast

T-04000, M-80503

Case 3 - References:

- Solorzano CC, Middleton LP, Hung KK, et al. Treatment and Outcome of Patients with Intracystic Papillary Carcinoma of the Breast. *Am J Surg* 2002; 184(4):364-368.
- Dogan BE, Whitman GJ, Middleton LP and Phelps M. Intracystic Papillary Carcinoma of the Breast. *AJR Am J Roentgenol* 2003; 181(1):186.
- Yamamoto D, Ueda S, Senzaki H, et al. New Diagnostic Approach to Intracystic Lesions of the Breast by Fibroptic Ductoscopy. *Anticancer Res* 2001; 21(6A):4113-4116.

Matsuo K, Fukutomi T, Tsuda H, et al. A Case of Malignant Phyllodes Tumor of the Breast with Osteosarcomatous Features. *Breast Cancer* 2001; 8(1):79-83.

Pacelli A, Bock BJ, Jensen EA, et al. Intracystic Papillary Carcinoma of the Breast in a Male Patient Diagnosed by Ultrasound-Guided Core Biopsy. A Case Report. *Breast J* 2002; 8(6):387-390.

Case No. 4, Accession No. 29566

February 2005

Alameda (Alameda County Medical Center) - Non-Hodgkin's lymphoma, diffuse high-grade large B-cell

Baldwin Park (Kaiser Permanente) - Diffuse large B-cell lymphoma (3)

Glendale - High-grade Burkitt's-like lymphoma

Irvine (University of California) - Large cell B-cell lymphoma, immunoblastic type

Laguna (Laguna Pathology Medical Group) - Diffuse large B-cell lymphoma

Loma Linda University Medical Center Residents) - Diffuse large B-cell lymphoma

Long Beach (Lakewood Regional Medical Center) - Diffuse large cell lymphoma (7)

Michigan (Oakwood Hospital) - Non-Hodgkin's lymphoma B-cell, Burkitt-like diffuse large cell

Monterey Park (Garfield Medical Center) - Burkitt's lymphoma

Monterey Park (Monterey Peninsula Pathologists) - Diffuse large B-cell lymphoma

Oakland (Kaiser Permanente) - Diffuse large B-cell lymphoma

Orange (Orange County Medical Group) - Large cell lymphoma

Sacramento (University of California Davis) - Diffuse large B-cell lymphoma

San Diego (Naval Medical Center) - Diffuse large B-cell lymphoma

San Francisco (San Francisco General Hospital) - Diffuse large B-cell lymphoma

Santa Rosa (Santa Rosa Memorial Hospital) - Large cell lymphoma, B-cell phenotype (2); Diffuse large B-cell lymphoma (with some Burkitt-like features)

Ventura - Small cleaved lymphoma

Arizona (Maryvale Medical Center) - Large B-cell lymphoma

Colorado, Evergreen - B-cell lymphoma, diffuse large cell

Florida (Baptist Hospital) - Burkitt's malignant lymphoma (5)

Florida (Munroe Medical Center) - Burkitt's lymphoma

Florida, Tallahassee - Diffuse large B-cell lymphoma

Florida (Winter Haven Hospital) - Lymphoma

Illinois, Burr Ridge - Diffuse large B-cell lymphoma

Illinois (Northwestern Memorial Hospital) - Burkitt's lymphoma

Illinois, Oak Brook - Diffuse B-cell lymphoma

Indiana (Howard Community Hospital) - High grade B-cell NHL

Louisiana (Louisiana State University Health Science Center) - Malignant lymphoma large cell, immunoblastic

Maryland (Johns Hopkins Hospital) - Diffuse large B-cell lymphoma (2)

Maryland (National Naval Medical Center) - High-grade B-cell lymphoma

Massachusetts (Berkshire Medical Center) - Malignant lymphoma, diffuse large B-cell

Massachusetts (New England Medical Center) - Diffuse large B-cell lymphoma

Michigan (St. Joseph Mercy Hospital) - Diffuse large B-cell lymphoma

Minnesota - Diffuse large B-cell lymphoma

Minnesota (Fairview Southdale Hospital) - High grade B-cell lymphoma

New Mexico (University of New Mexico) - Burkitt's lymphoma

New York (Nassau University Medical Center) - Large cell lymphoma

New York (Stony Brook University Hospital Residents) - Large B-cell lymphoma

New York (Westchester Medical Center) - Diffuse large B-cell lymphoma

North Carolina (Mountain Area Pathology) - B-cell lymphoma, rule out Burkitt's (1); High grade B-cell lymphoma (Burkitt's-like) (2); Diffuse large B-cell lymphoma (1)

Ohio (McCullough-Hyde Memorial Hospital) - Ki67 positive diffuse B-cell lymphoma

Ohio (Medical College of Ohio) - High grade B-cell non-Hodgkin's lymphoma

Pennsylvania (Allegheny General Hospital) - B-cell diffuse large cell lymphoma

Pennsylvania (Conemaugh Memorial Medical Center) - B-cell lymphoma

Pennsylvania (Drexel University College of Medicine) - Diffuse large B-cell lymphoma

Pennsylvania (Lehigh Valley Hospital) - Large cell lymphoma

Pennsylvania (Magee Women's Hospital) - B-cell lymphoma

Pennsylvania (Mt. Nittany Medical Center) - Diffuse large B-cell lymphoma, immunoblastic variant, breast

Pennsylvania (Pennsylvania Hospital) - Non-Hodgkin's lymphoma

Texas, Lubbock - Malignant lymphoma, large cell, B-cell type

Texas (Propath Associates) - High grade B-cell lymphoma (2)

Texas (Scott & White Memorial Hospital) - Diffuse large B-cell lymphoma

Washington, Vancouver - Diffuse large B-cell lymphoma (vs. Burkitt's lymphoma, atypical variant)

West Virginia (Greenbrier Valley Medical Center) - Diffuse B-cell lymphoma
Wisconsin (Bellin Hospital) - Burkitt's lymphoma
Australia (North Queensland Pathology) - Large B-cell lymphoma
Australia (Royal Prince Alfred Hospital) - Diffuse large B-cell lymphoma, immunoblastic variant
Brazil (UNIFES/EPM) - Diffuse large B-cell lymphoma
Canada (Foothills Medical Center) - Malignant lymphoma, diffuse large B-cell type
Canada (Woodstock General Hospital) - Diffuse large B-cell lymphoma, breast
Hong Kong (Hong Kong Baptist Hospital) - Non-Hodgkin's lymphoma (Burkitt's-like)
Italy, Naples - Burkitt's lymphoma
Netherlands, Amsterdam - Non-Hodgkin's lymphoma (diffuse large B-cell NHL)
Puerto Rico (University of Puerto Rico) - Diffuse large B-cell lymphoma
Qatar - Burkitt's lymphoma

Case 4 - Diagnosis:

Diffuse large B-cell lymphoma, immunoblastic type, breast

T-04000, M-96123

Case 4 - References:

Abbondanzo SL, Seidman JD, Lefkowitz M, et al. Primary Diffuse Large B-Cell Lymphoma of the Breast. A Clinicopathologic Study of 31 Cases. *Pathol Res Pract* 1996; 192(1):37-43.
 Ball PJ, van der Valk P, Kurver PH, et al. Large Cell Lymphoma II. Differential Diagnosis of Centroblastic and B-Immunoblastic Subtypes by Morphometry on Cytologic Preparations. *Cancer* 1985; 55(2):486-492.
 Arber DA, Simpson JF, Weiss LM, et al. Non-Hodgkin's Lymphoma Involving the Breast. *Am J Surg Pathol* 1994; 18(3):288-295.
 Mattia AR, Ferry JA and Harris NL. Breast Lymphoma. A B-Cell Spectrum Including the Low Grade B-Cell Lymphoma of Mucosa Associated Lymphoid Tissue. *Am J Surg Pathol* 1993; 17(6):574-587.

Case No. 5, Accession No. 29359

February 2005

Alameda (Alameda County Medical Center) - Hodgkin's lymphoma
Baldwin Park (Kaiser Permanente) - Classical Hodgkin's lymphoma (1); Hodgkin's lymphoma, nodular sclerosis type (1); Hodgkin's classical (1)
Glendale - Syncytial Hodgkin's disease vs. ALCL
Irvine (University of California) - Hodgkin's lymphoma, nodular sclerosing
Laguna (Laguna Pathology Medical Group) - Nodular sclerosing Hodgkin's disease
Loma Linda University Medical Center Residents - Lymphocyte predominant Hodgkin's disease
Long Beach (Lakewood Regional Medical Center) - Hodgkin's disease (7)
Michigan (Oakwood Hospital) - Hodgkin's lymphoma, classical
Monterey Park (Garfield Medical Center) - Hodgkin's disease, mixed cellularity type
Monterey Park (Monterey Peninsula Pathologists) - Hodgkin's lymphoma, classical nodular sclerosing
Oakland (Kaiser Permanente) - Hodgkin's lymphoma, classic type
Orange (Orange County Medical Group) - Hodgkin's disease
Sacramento (University of California Davis) - Hodgkin's lymphoma
San Diego (Naval Medical Center) - Nodular sclerosing Hodgkin's disease
San Francisco (San Francisco General Hospital) - Hodgkin's lymphoma, nodular sclerosing
Santa Rosa (Santa Rosa Memorial Hospital) - Hodgkin's disease (2); Hodgkin's lymphoma (1)
Ventura - Nodular sclerosis Hodgkin's disease
Arizona (Maryvale Medical Center) - Nodular sclerosing Hodgkin's lymphoma
Colorado, Evergreen - Nodular sclerosing Hodgkin's disease
Florida (Baptist Hospital) - Nodular sclerosing Hodgkin's (3); Hodgkin's disease
Florida (Munroe Medical Center) - Hodgkin's disease
Florida, Tallahassee - Classical Hodgkin's lymphoma, grade I
Florida (Winter Haven Hospital) - Hodgkin's disease
Illinois, Burr Ridge - Hodgkin's lymphoma
Illinois (Northwestern Memorial Hospital) - Hodgkin's lymphoma, nodular sclerosing type
Illinois, Oak Brook - Nodular sclerosing Hodgkin's disease
Indiana (Howard Community Hospital) - Hodgkin's disease
Louisiana (Louisiana State University Health Science Center) - Hodgkin's disease, mixed cellularity
Maryland (Johns Hopkins Hospital) - Classical Hodgkin's lymphoma, nodular sclerosis type (1); Hodgkin's nodular sclerosis (1)
Maryland (National Naval Medical Center) - Hodgkin's lymphoma, classical, favor nodular sclerosis
Massachusetts (Berkshire Medical Center) - Hodgkin's lymphoma

Massachusetts (New England Medical Center) - Hodgkin's lymphoma, nodular sclerosing type
Michigan (St. Joseph Mercy Hospital) - Classical Hodgkin's lymphoma, nodular sclerosing type
Minnesota - Nodular sclerosing Hodgkin's lymphoma
Minnesota (Fairview Southdale Hospital) - Hodgkin's lymphoma
New Mexico (University of New Mexico) - Hodgkin's lymphoma, mixed cellularity type
New York (Nassau University Medical Center) - Hodgkin's lymphoma, nodular sclerosis
New York (Stony Brook University Hospital Residents) - Hodgkin's lymphoma, mixed cellularity type
New York (Westchester Medical Center) - Nodular sclerosing Hodgkin's lymphoma
North Carolina (Mountain Area Pathology) - Hodgkin's disease, mixed cellularity (2); Hodgkin's disease (1); Hodgkin's lymphoma, nodular sclerosing subtype (1)
Ohio (McCullough-Hyde Memorial Hospital) - Hodgkin's disease
Ohio (Medical College of Ohio) - Hodgkin's lymphoma, nodular sclerosing type
Pennsylvania (Allegheny General Hospital) - Hodgkins lymphoma, mixed cellularity
Pennsylvania (Conemaugh Memorial Medical Center) - Hodgkin's disease
Pennsylvania (Drexel University College of Medicine) - Hodgkin's lymphoma (nodular sclerosis variant)
Pennsylvania (Lehigh Valley Hospital) - Hodgkin's lymphoma, nodular sclerosing type
Pennsylvania (Magee Women's Hospital) - Hodgkin's lymphoma
Pennsylvania (Mt. Nittany Medical Center) - Classic Hodgkin's lymphoma, cellular phase of nodular sclerosis, lymph node
Pennsylvania (Pennsylvania Hospital) - Hodgkin's lymphoma, mixed cellularity
Texas, Lubbock - Hodgkin's lymphoma, nodular sclerosis
Texas (Propath Associates) - Hodgkin's lymphoma, nodular sclerosis type (2)
Texas (Scott & White Memorial Hospital) - Hodgkin's lymphoma
Washington, Vancouver - Classical Hodgkin's lymphoma, nodular sclerosing type
West Virginia (Greenbrier Valley Medical Center) - Hodgkin's disease, nodular sclerosing
Wisconsin (Bellin Hospital) - Classic Hodgkin's lymphoma
Australia (North Queensland Pathology) - Hodgkin's disease
Australia (Royal Prince Alfred Hospital) - Hodgkin lymphoma, nodular sclerosis type (grade 2)
Brazil (UNIFES/EPM) - Hodgkin's lymphoma, nodular sclerosis type
Canada (Foothills Medical Center) - Hodgkin's lymphoma, nodular sclerosis type
Canada (Woodstock General Hospital) - Hodgkin's lymphoma nodular sclerosis subtype, axillary lymph node
Hong Kong (Hong Kong Baptist Hospital) - Angioimmunoblastic T-cell lymphoma
Italy, Naples - Nodular sclerosis Hodgkin's lymphoma
Netherlands, Amsterdam - Hodgkin's lymphoma (nodular sclerosis)
Puerto Rico (University of Puerto Rico) - Classic Hodgkin's lymphoma (nodular sclerosing type)
Qatar - Hodgkin's lymphoma-nodular sclerosing

Case 5 - Diagnosis:

Hodgkin's lymphoma, predominantly nodular sclerosing, axilla
 T-Y8100, M-96503

Case 5 - References:

von Wasielewski S, Franklin J, Fischer R, et al. Nodular Sclerosing Hodgkin Disease. New Grading Predicts Prognosis in Intermediate and Advanced Stages. *Blood* 2003; 101(10):4063-4069.
 Kis LL, Nagy N, Klein G, et al. Expression of SH2D1A in Five Classical Hodgkin's Disease-Derived Cell Lines. *Int J Cancer* 2003; 104(5):658-661.
 van den Berg A, Kroesen BJ, Kooistra K, et al. High Expression of B-cell Receptor Inducible Gene BIC in All Subtypes of Hodgkin Lymphoma. *Genes Chromosomes Cancer* 2003; 37(1):20-28.

Case No. 6, Accession No. 29800

February 2005

Alameda (Alameda County Medical Center) - Oncocytic carcinoma arising in Hashimoto's thyroiditis
Baldwin Park (Kaiser Permanente) - Papillary carcinoma thyroid with areas of poor differentiation (1); Papillary carcinoma of the thyroid with columnar and follicular and poorly differentiated areas (1); Papillary carcinoma (high grade) (1)
Glendale - Poorly differentiated carcinoma
Irvine (University of California) - Warthin's-like variant of papillary carcinoma of the thyroid
Laguna (Laguna Pathology Medical Group) - Papillary carcinoma
Long Beach (Lakewood Regional Medical Center) - Papillary carcinoma with Hurthle cell features (7)
Michigan (Oakwood Hospital) - Columnar cell variant, papillary carcinoma
Monterey Park (Garfield Medical Center) - Papillary carcinoma, tall cell variant
Monterey Park (Monterey Peninsula Pathologists) - Papillary carcinoma diffuse sclerosing

Oakland (Kaiser Permanente) - Papillary carcinoma, tall cell type
Orange (Orange County Medical Group) - Papillary carcinoma
Sacramento (University of California Davis) - Papillary carcinoma
San Diego (Naval Medical Center) - Papillary thyroid carcinoma in a background of Hashimoto's thyroiditis
San Francisco (San Francisco General Hospital) - Papillary carcinoma, Warthin's tumor-like variant
Santa Rosa (Santa Rosa Memorial Hospital) - Large cell anaplastic carcinoma (1); Poorly differentiated carcinoma of thyroid (1);
 Undifferentiated thyroid carcinoma with osteoclast-like giant cells, arising from papillary thyroid carcinoma (1)
Ventura - Oncocytic carcinoma
Arizona (Maryvale Medical Center) - Squamous cell carcinoma of thyroid
Colorado, Evergreen - Papillary carcinoma-oncocytic variant, Hashimoto's thyroiditis
Florida (Baptist Hospital) - Anaplastic carcinoma, squamoid type (2); Papillary carcinoma, poorly differentiated with squamoid differentiation (2); Poorly differentiated papillary carcinoma (1)
Florida (Munroe Medical Center) - Papillary carcinoma
Florida, Tallahassee - Papillary oncocytic neoplasm
Florida (Winter Haven Hospital) - Papillary carcinoma
Illinois, Burr Ridge - Anaplastic carcinoma
Illinois (Northwestern Memorial Hospital) - Warthin's-like papillary thyroid carcinoma
Illinois, Oak Brook - Anaplastic carcinoma with squamous differentiation (1)
Indiana (Howard Community Hospital) - Papillary Hurthle cell carcinoma and Hashimoto's thyroiditis
Louisiana (Louisiana State University Health Science Center) - Papillary thyroid carcinoma with focal spindle and giant cell transformation in a background of Hashimoto's
Maryland (Johns Hopkins Hospital) - Papillary carcinoma, Warthin tumor-like variant (2)
Maryland (National Naval Medical Center) - Papillary carcinoma with Warthin-like features arising in a lymphocytic thyroiditis (1)
Massachusetts (Berkshire Medical Center) - Hurthle cell carcinoma
Massachusetts (New England Medical Center) - Hurthle cell neoplasm
Michigan (St. Joseph Mercy Hospital) - Papillary carcinoma
Minnesota - Warthin-like papillary carcinoma
Minnesota (Fairview Southdale Hospital) - Papillary carcinoma, nodular sclerosing variant
New Mexico (University of New Mexico) - Anaplastic carcinoma
New York (Nassau University Medical Center) - Tall cell carcinoma
New York (Stony Brook University Hospital Residents) - Papillary carcinoma with background of Hashimoto's disease
New York (Westchester Medical Center) - Papillary Hurthle cell carcinoma
North Carolina (Mountain Area Pathology) - Undifferentiated carcinoma (1); Hurthle cell carcinoma (2); Anaplastic carcinoma (1)
Ohio (McCullough-Hyde Memorial Hospital) - Malignant Hurthle cell tumor
Ohio (Medical College of Ohio) - Papillary carcinoma, diffuse sclerosing type
Pennsylvania (Allegheny General Hospital) - Anaplastic carcinoma of thyroid
Pennsylvania (Conemaugh Memorial Medical Center) - Papillary carcinoma, Hurthle type
Pennsylvania (Drexel University College of Medicine) - Papillary carcinoma
Pennsylvania (Lehigh Valley Hospital) - Papillary carcinoma, oncocytic variant
Pennsylvania (Magee Women's Hospital) - Medullary carcinoma
Pennsylvania (Mt. Nittany Medical Center) - Undifferentiated (anaplastic) carcinoma, thyroid gland
Pennsylvania (Pennsylvania Hospital) - Papillary carcinoma, diffuse sclerosing variant
Texas, Lubbock - Hurthle cell carcinoma
Texas (ProPath Associates) - Thyroid carcinoma, tall cell variety in a background of Hashimoto's thyroiditis (2)
Texas (Scott & White Memorial Hospital) - Papillary carcinoma, tall cell variant
Washington, Vancouver - Anaplastic carcinoma of thyroid
West Virginia (Greenbrier Valley Medical Center) - Medullary carcinoma, papillary variant
Wisconsin (Bellin Hospital) - Papillary thyroid carcinoma
Australia (North Queensland Pathology) - High grade papillary carcinoma of thyroid
Australia (Royal Prince Alfred Hospital) - Papillary carcinoma, dedifferentiating (high grade)
Brazil (UNIFES/EPM) - Papillary carcinoma, oncocytic variant, Warthin-like
Canada (Foothills Medical Center) - Diffuse sclerosing papillary carcinoma
Canada (Woodstock General Hospital) - Columnar cell variant papillary carcinoma, thyroid
Hong Kong (Hong Kong Baptist Hospital) - Papillary carcinoma, Warthin tumor-like variant
Italy, Naples - Warthin's-like papillary thyroid carcinoma
Netherlands, Amsterdam - Oncocytic papillary carcinoma of the thyroid and lymphocytic thyroiditis
Puerto Rico (University of Puerto Rico) - Papillary thyroid carcinoma
Qatar - Papillary carcinoma in a background of Hashimoto's thyroiditis

Case 6 - Diagnosis:

Warthin-like papillary thyroid carcinoma (aka “papillary Hurthle cell carcinoma with lymphocytic stroma”), thyroid

T-96000, M-82903

Director’s note: One of the newest of the 20+ types of papillary ca of thyroid. We have only two in the Registry. drc

Case 6 - References:

- Urano M, Abe M, Kuroda M, Mizoguchi Y, et al. Warthin-Like Tumor Variant of Papillary Thyroid Carcinoma Case Report and Literature Review. *Pathol Int* 2001; 51(9):707-712.
- D’Antonio A, De Chiara A, Santoro M, et al. Warthin-Like Tumour of the Thyroid Gland. RET/PTC Expression Indicates it is a Variant of Papillary Carcinoma. *Histopathol* 2000; 36(6):493-498.
- Vasei M, Kumar PV, Malekhoseini SA, et al. Papillary Hurthle Cell Carcinoma (Warthin-Like Tumor) of the Thyroid. Report of a Case with Fine Needle Aspiration Findings. *Acta Cytol* 1998; 42(6):1437-1440.
- Fadda G, Mule A, Zannoni GF, et al. Fine Needle Aspiration of a Warthin-Like Thyroid Tumor. Report of a Case with Differential Diagnostic Criteria vs Other Lymphocyte-Rich Thyroid Lesions. *Acta Cytol* 1998; 42(4):998-1002.
- Baloch ZW and LiVolsi VA. Warthin-Like Papillary Carcinoma of the Thyroid. *Arch Pathol Lab Med* 2000;124(8):1192-1195.
- Macak J, Vaverkova H, Dushova M, et al. Medullary and Mixed Medullary-Papillary Carcinoma of the Thyroid Gland. *Pathologica* 1997; 89(3):317-322.
- Abrahams, NA, Ayala AG, Czerniak B, et al. Chromophobe Renal Cell Carcinoma with Sarcomatoid Transformation. *Ann of Diag Pathol* 2003; 7(5):296-299.

Case No. 7, Accession No. 29610

February 2005

Alameda (Alameda County Medical Center) - Pheochromocytoma, malignant

Baldwin Park (Kaiser Permanente) - Pheochromocytoma (3)

Glendale - Adrenal cortical carcinoma

Irvine (University of California) - Adrenal cortical carcinoma

Laguna (Laguna Pathology Medical Group) - Neuroendocrine neoplasm (adrenal cortical carcinoma)

Loma Linda University Medical Center Residents) - Adrenal cortical carcinoma

Long Beach (Lakewood Regional Medical Center) - Carcinoma with neuroendocrine features (7)

Michigan (Oakwood Hospital) - Adenocortical carcinoma

Monterey Park (Garfield Medical Center) - Pheochromocytoma

Monterey Park (Monterey Peninsula Pathologists) - Adrenal cortical carcinoma

Oakland (Kaiser Permanente) - Pheochromocytoma

Orange (Orange County Medical Group) - Pheochromocytoma

Sacramento (University of California Davis) - Adrenal cortical carcinoma

San Diego (Naval Medical Center) - Adrenal cortical carcinoma

San Francisco (San Francisco General Hospital) - Pheochromocytoma

Santa Rosa (Santa Rosa Memorial Hospital) - Pheochromocytoma (2); Adrenocortical neoplasm, probably carcinoma (1)

Ventura - Malignant peripheral nerve sheath tumor

Arizona (Maryvale Medical Center) - Adrenal cortical carcinoma

Colorado, Evergreen - Large cell neuroendocrine carcinoma

Florida (Baptist Hospital) - Pheochromocytoma (5)

Florida (Munroe Medical Center) - Neuroendocrine carcinoma

Florida, Tallahassee - Non-small neuroendocrine carcinoma

Florida (Winter Haven Hospital) - Pheochromocytoma

Illinois, Burr Ridge - Neuroendocrine carcinoma

Illinois (Northwestern Memorial Hospital) - Adrenal cortical carcinoma

Illinois, Oak Brook - Adrenal cortical carcinoma

Indiana (Howard Community Hospital) - Neuroendocrine carcinoma

Louisiana (Louisiana State University Health Science Center) - Adrenal cortical carcinoma

Maryland (Johns Hopkins Hospital) - Adrenal cortical carcinoma (1); Adrenal cortical neoplasm favor carcinoma (1)

Maryland (National Naval Medical Center) - Adrenal cortical carcinoma (4); Malignant pheochromocytoma (2); Malignant hemangiopericytoma (1)

Massachusetts (Berkshire Medical Center) - Adrenal cortical carcinoma

Massachusetts (New England Medical Center) - Adrenal cortical carcinoma

Michigan (St. Joseph Mercy Hospital) - Carcinoma, neuroendocrine vs. adrenal cortical

Minnesota - Metastatic carcinoma

Minnesota (Fairview Southdale Hospital) - Pheochromocytoma

New Mexico (University of New Mexico) - Pheochromocytoma
New York (Nassau University Medical Center) - Cortical carcinoma, adrenal
New York (Stony Brook University Hospital Residents) - Adrenal cortical carcinoma
New York (Westchester Medical Center) - Adrenocortical carcinoma
North Carolina (Mountain Area Pathology) - Pheochromocytoma (4)
Ohio (McCullough-Hyde Memorial Hospital) - Pheochromocytoma
Ohio (Medical College of Ohio) - Adrenal cortical carcinoma
Pennsylvania (Allegheny General Hospital) - Pheochromocytoma
Pennsylvania (Conemaugh Memorial Medical Center) - Pheochromocytoma
Pennsylvania (Drexel University College of Medicine) - Poorly differentiated carcinoma
Pennsylvania (Lehigh Valley Hospital) - Adrenal cortical carcinoma
Pennsylvania (Magee Women's Hospital) - Pheochromocytoma
Pennsylvania (Mt. Nittany Medical Center) - Granulosa cell tumor, poorly differentiated (diffuse), ovary
Pennsylvania (Pennsylvania Hospital) - Adrenal cortical carcinoma
Texas, Lubbock - Adrenal carcinoma
Texas (ProPath Associates) - Pheochromocytoma (2)
Texas (Scott & White Memorial Hospital) - Poorly differentiated carcinoma with neuroendocrine features
Washington, Vancouver - Adrenal cortical tumor (possibly carcinoma)
West Virginia (Greenbrier Valley Medical Center) - Adrenal cortical carcinoma
Wisconsin (Bellin Hospital) - Adrenal cortical tumor
Australia (North Queensland Pathology) - P Net – D.D. Small cell carcinoma
Australia (Royal Prince Alfred Hospital) - Adrenal cortical carcinoma
Brazil (UNIFES/EPM) - Poorly differentiated carcinoma, rule out metastatic
Canada (Foothills Medical Center) - Adrenocortical carcinoma
Canada (Woodstock General Hospital) - Large cell neuroendocrine carcinoma, adrenal gland
Hong Kong (Hong Kong Baptist Hospital) - Poorly differentiated malignant endocrine tumor
Italy, Naples - Pheochromocytoma, probably malignant
Netherlands, Amsterdam - Pheochromocytoma
Puerto Rico (University of Puerto Rico) - Adrenocortical carcinoma
Qatar - Undifferentiated malignant neoplasm most probably malignant paraganglioma

Case 7 - Diagnosis:

Adrenal neoplasm, probably cortical adenocarcinoma, with neuroendocrine differentiation, adrenal gland

T-93000, M-83703

Director's note: This case illustrates the difficulty in sometimes distinguishing medullary tumors from cortical ones. drc

Case 7 - References:

Saeger W, Fassnacht M, Chita R, et al. High Diagnostic Accuracy of Adrenal Core Biopsy. Results of the German and Austrian Adrenal Network Multicenter Trial in 200 Consecutive Patients. *Hum Pathol* 2003; 34:180-186.
 Hara F, Kishikawa T, Tomishige H, et al. A Child with Adrenocortical Carcinoma Who Underwent Percutaneous Ethanol Injection Therapy for Liver Metastasis. *J Pediatr Surg* 2003; 38(8):1237-1240.
 Toptas T, Altıparmak MR, and Pamuk ON. Adrenal Carcinoma Causing Secondary Amyloidosis. Report of the First Case in the Literature. *Neth J Med* 2003; 61(4):142-145.
 Fujiyoshi F, Nakojo M, Fukukura Y, et al. Characterization of Adrenal Tumors by Chemical Shift Fast Low-Angle Shot MR Imaging. Comparison of Four Methods of Quantitative Evaluation. *AJR Am J Roentgenol* 2003; 180(6):1649-1657.
 Kaddah NM and Dessouky NM. Functioning Adrenal Tumors in Children. A Report of 17 Cases. *Saudi Med J* 2003; 24(5):S46-47.

Case No. 8, Accession No. 29634

February 2005

Alameda (Alameda County Medical Center) - Solid-pseudopapillary tumor
Baldwin Park (Kaiser Permanente) - Solid cystic papillary epithelial neoplasm of pancreas (1); Neuroendocrine tumor (1); Solid and cystic papillary carcinoma (1)
Glendale - Solid and cystic papillary tumor of pancreas
Irvine (University of California) - Solid pseudopapillary tumor of pancreas
Laguna (Laguna Pathology Medical Group) - Solid-cystic papillary epithelial neoplasm (Gruber-Frantz tumor)
Loma Linda University Medical Center Residents) - Solid pseudopapillary carcinoma of the pancreas (AKA: solid cystic papillary epithelial neoplasm)
Long Beach (Lakewood Regional Medical Center) - Solid and cystic pseudopapillary tumor of pancreas (7)

Michigan (Oakwood Hospital) - Solid cystic-papillary epithelial neoplasm
Monterey Park (Garfield Medical Center) - Solid-pseudopapillary tumor
Monterey Park (Monterey Peninsula Pathologists) - Solid-cystic papillary tumor
Oakland (Kaiser Permanente) - Solid and cystic tumor
Orange (Orange County Medical Group) - Solid and cystic pseudopapillary neoplasm
Sacramento (University of California Davis) - Solid cystic papillary tumor
San Diego (Naval Medical Center) - Solid pseudopapillary tumor
San Francisco (San Francisco General Hospital) - Pancreatic neuroendocrine carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Solid pseudopapillary tumor of pancreas (3)
Ventura - Lipoma
Arizona (Maryvale Medical Center) - Solid-pseudopapillary tumor
Colorado, Evergreen - Pancreatic endocrine neoplasm
Florida (Baptist Hospital) - Solid pseudopapillary tumor of pancreas (1); Gruber-Frantz tumor (1); Solid and cystic papillary tumor (2)
Florida (Munroe Medical Center) - Endocrine adenoma
Florida, Tallahassee - Solid pseudopapillary tumor
Florida (Winter Haven Hospital) - Solid and cystic papillary tumor
Illinois, Burr Ridge - Pancreatic endocrine neoplasm
Illinois (Northwestern Memorial Hospital) - Solid pseudopapillary tumor of pancreas
Illinois, Oak Brook - Solid pseudopapillary tumor (G-F tumor)
Indiana (Howard Community Hospital) - Cystic and papillary neoplasm
Louisiana (Louisiana State University Health Science Center) - Solid cystic pseudopapillary tumor of pancreas
Maryland (Johns Hopkins Hospital) - Solid and cystic pseudopapillary (Hamoudi) tumor (1); Solid-pseudopapillary tumor (1)
Maryland (National Naval Medical Center) - Solid pseudopapillary tumor
Massachusetts (Berkshire Medical Center) - Solid cystic pseudopapillary tumor
Massachusetts (New England Medical Center) - Solid pseudopapillary tumor
Michigan (St. Joseph Mercy Hospital) - Solid-cystic pseudopapillary tumor
Minnesota - Solid and cystic pseudopapillary tumor
Minnesota (Fairview Southdale Hospital) - Solid and papillary epithelial neoplasm
New Mexico (University of New Mexico) - Solid pseudopapillary tumor
New York (Nassau University Medical Center) - Solid pseudopapillary tumor
New York (Stony Brook University Hospital Residents) - Solid pseudopapillary tumor
New York (Westchester Medical Center) - Solid pseudopapillary tumor of pancreas
North Carolina (Mountain Area Pathology) - Solid pseudopapillary tumor (4)
Ohio (McCullough-Hyde Memorial Hospital) - Islet cell/neuroendocrine tumor
Ohio (Medical College of Ohio) - Solid pseudopapillary tumor
Pennsylvania (Allegheny General Hospital) - Neuroendocrine carcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Solid cystic papillary epithelial neoplasm
Pennsylvania (Drexel University College of Medicine) - Solid cystic papillary epithelial tumor
Pennsylvania (Lehigh Valley Hospital) - Solid pseudopapillary tumor
Pennsylvania (Magee Women's Hospital) - Solid pseudopapillary tumor
Pennsylvania (Mt. Nittany Medical Center) - Solid-pseudopapillary tumor, pancreas
Pennsylvania (Pennsylvania Hospital) - Solid pseudopapillary tumor
Texas, Lubbock - Neuroendocrine carcinoma
Texas (ProPath Associates) - Carcinoid of pancreas (2)
Texas (Scott & White Memorial Hospital) - Solid pseudopapillary carcinoma
Washington, Vancouver - Solid and papillary epithelial carcinoma
West Virginia (Greenbrier Valley Medical Center) - Solid pseudopapillary tumor
Wisconsin (Bellin Hospital) - Carcinoid tumor
Australia (North Queensland Pathology) - Solid pseudopapillary tumour
Australia (Royal Prince Alfred Hospital) - Solid pseudopapillary tumor
Brazil (UNIFES/EPM) - Solid pseudopapillary tumor of the pancreas (Frantz tumor)
Canada (Foothills Medical Center) - Solid pseudopapillary tumor
Canada (Woodstock General Hospital) - Solid cystic-papillary epithelial neoplasm, pancreas
Hong Kong (Hong Kong Baptist Hospital) - Solid pseudopapillary tumor
Italy, Naples - Solid pseudopapillary tumor
Netherlands, Amsterdam - Solid and pseudopapillary epithelial neoplasm
Puerto Rico (University of Puerto Rico) - Solid-cystic pseudopapillary tumor
Qatar - Solid and cystic papillary tumour of pancreas

Case 8 - Diagnosis:

Solid pseudopapillary tumor, pancreas

T-59000, M-80001

Director's note: Case was originally mis-diagnosed as pancreatic endocrine neoplasm. drc

Case 8 – References:

- Pelosi G, et al. Solid and Cystic Papillary Neoplasm of the Pancreas: a Clinico-Cytopathologic and Immunocytochemical Study of Five New Cases Diagnosed by FNA Cytology and a Review of the Literature. *Diagn Cytopathol* 233-46, 1995
- de la Rosa G, et al. Solid and Papillary Tumor of the Pancreas: Ultrastructural Observations on Two Contrasting Cases. *Ultrastruct Pathol*, 439-47, 1997.
- Kashima K, et al. Cytologic Features of Solid and Cystic Tumor of the Pancreas. *Acta Cytol*, 443-9, 1997.
- Heitz PU, Kapper M, Polak JM, et al. Pancreatic Endocrine Tumours. Immunocytochemical Analysis. *Hum Pathol* 1982; 13(3):263-271.

Case No. 9, Accession No. 29499

February 2005

- Alameda (Alameda County Medical Center) - Myxoid neoplasm of low malignant potential
- Baldwin Park (Kaiser Permanente) - Intramuscular myxoma (3)
- Glendale - Intramuscular myxoma
- Irvine (University of California) - Low grade fibromyxoid sarcoma vs. myxoma
- Laguna (Laguna Pathology Medical Group) - Myxoma
- Loma Linda University Medical Center Residents) - Intramuscular myxoma
- Long Beach (Lakewood Regional Medical Center) - Intramuscular myxoma (7)
- Michigan (Oakwood Hospital) - Myxoma
- Monterey Park (Garfield Medical Center) - Intramuscular myxoma
- Monterey Park (Monterey Peninsula Pathologists) - Intramuscular myxoma
- Oakland (Kaiser Permanente) - Intramuscular myxoma
- Orange (Orange County Medical Group) - Intramuscular myxoma
- Sacramento (University of California Davis) - Intramuscular myxoma
- San Diego (Naval Medical Center) - Intramuscular myxoma
- San Francisco (San Francisco General Hospital) - Low grade fibromyxoid sarcom
- Santa Rosa (Santa Rosa Memorial Hospital) - Intramuscular myxoma
- Ventura - Intramuscular myxoma
- Arizona (Maryvale Medical Center) - Spindle cell liposarcoma
- Colorado, Evergreen - Intramuscular myxoma
- Florida (Baptist Hospital) - Intramuscular myxoma vs. low grade fibromyxoid sarcoma (1); Myxoma (3); Intramuscular myxoma (1)
- Florida (Munroe Medical Center) - Myxoma
- Florida, Tallahassee - Myxoma
- Florida (Winter Haven Hospital) - Intramuscular myxoma
- Illinois, Burr Ridge - Intramuscular myxoma
- Illinois (Northwestern Memorial Hospital) - Intramuscular myxoma
- Illinois, Oak Brook - Intramuscular myxoma
- Indiana (Howard Community Hospital) - Intramuscular myxoma
- Louisiana (Louisiana State University Health Science Center) - Intramuscular myxoma
- Maryland (Johns Hopkins Hospital) - Intramuscular myxoma (2)
- Maryland (National Naval Medical Center) - Intramuscular myxoma
- Massachusetts (Berkshire Medical Center) - Intramuscular myxoma
- Massachusetts (New England Medical Center) - Low grade myxoid neoplasm
- Michigan (St. Joseph Mercy Hospital) - Myxoma
- Minnesota - Myxoma
- Minnesota (Fairview Southdale Hospital) - Intramuscular myxoma
- New Mexico (University of New Mexico) - Myxoma
- New York (Nassau University Medical Center) - Intramuscular myxoma
- New York (Stony Brook University Hospital Residents) - Low grade myxoid neoplasm with recurrent potential
- New York (Westchester Medical Center) - Intramuscular myxoma
- North Carolina (Mountain Area Pathology) - Intramuscular myxoma (4)
- Ohio (McCullough-Hyde Memorial Hospital) - Myxoma
- Ohio (Medical College of Ohio) - Intramuscular myxoma
- Pennsylvania (Allegheny General Hospital) - Intramuscular myxoma

Pennsylvania (Conemaugh Memorial Medical Center) - Angiomyxoma
Pennsylvania (Drexel University College of Medicine) - Metastatic malignant melanoma
Pennsylvania (Lehigh Valley Hospital) - Intramuscular myxoma
Pennsylvania (Magee Women's Hospital) - Myxoma
Pennsylvania (Mt. Nittany Medical Center) - Nodular fasciitis, intramuscular type, thigh
Pennsylvania (Pennsylvania Hospital) - Intramuscular myxoma
Texas, Lubbock - Myxoma
Texas (Propath Associates) - Myxosarcoma (1); Intramuscular myxoma (1)
Texas (Scott & White Memorial Hospital) - Intramuscular myxoma
Washington, Vancouver - Intramuscular myxoma
West Virginia (Greenbrier Valley Medical Center) - Intramuscular myxoma
Wisconsin (Bellin Hospital) - Fibromatosis
Australia (North Queensland Pathology) - Intramuscular
Australia (Royal Prince Alfred Hospital) - Cellular myxoma
Brazil (UNIFES/EPM) - Low grade myxoid neoplasm with recurrence potential
Canada (Foothills Medical Center) - Intramuscular myxoma
Canada (Woodstock General Hospital) - Intramuscular myxoma, thigh
Hong Kong (Hong Kong Baptist Hospital) - Intramuscular myxoma
Italy, Naples - Intramuscular myxoma
Netherlands, Amsterdam - Intramuscular myxoma
Puerto Rico (University of Puerto Rico) - Myxoma
Qatar - Intramuscular myxoma

Case 9 - Diagnosis:

Intramuscular myxoma, thigh

T-Y9100, M-88400

Director's note: Note the circumscription, the paucity of vessels, the lack of a plexiform capillary pattern, the lack of lipoblasts, and the lack of pleomorphism. drc

Case 9 – References:

van Roggen JF, McMenamin ME and Fletcher CD. Cellular Myxoma of Soft Tissue. A Clinicopathological Study of 38 Cases Confirming Indolent Clinical Behaviour. *Histopathol* 2001; 39(3):287-297.
 Prado MA, Miro RL, Leal IM, et al. Intramuscular Myxoma. Differential Diagnosis and Review of the Literature. *Orthopedics* 2002; 25(11):1297-1299.
 Catroppo JF, Olesnick L, Ringer P, et al. Intramuscular Low-Grade Myxoid Neoplasm with Recurrent Potential (Cellular Myxoma) of the Lower Extremity. Case Report with Cytohistologic Correlation and Review of the Literature. *Diagn Cytopathol* 2002; 26(5):301-305.
 Murphey MD, McRae GA, Fanburg-Smith JC, et al. Imaging of Soft-Tissue Myxoma with Emphasis on CT and MR and Comparison of Radiologic and Pathologic Findings. *Radiology* 2002; 225(1):215-224.

Case No. 10, Accession No. 29611

February 2005

Alameda (Alameda County Medical Center) - Cellular schwannoma
Baldwin Park (Kaiser Permanente) - Spindle cell carcinoma (leiomyosarcoma) (1); Leiomyosarcoma metastatic to a lymph node (1); Leiomyosarcoma, low grade (1)
Glendale - Schwannoma
Irvine (University of California) - Cellular schwannoma
Laguna (Laguna Pathology Medical Group) - Leiomyosarcoma
Loma Linda University Medical Center Residents - Fibromyoid sarcoma (low grade)
Long Beach (Lakewood Regional Medical Center) - Schwannoma (7)
Michigan (Oakwood Hospital) - Histiocytic reaction, possibly malacoplakia
Monterey Park (Garfield Medical Center) - Atypical schwannoma
Monterey Park (Monterey Peninsula Pathologists) - Leiomyoma vs. low grade leiomyosarcoma
Oakland (Kaiser Permanente) - Schwannoma
Orange (Orange County Medical Group) - Schwannoma
Sacramento (University of California Davis) - Schwannoma
San Diego (Naval Medical Center) - Smooth muscle tumor of uncertain malignant potential/schwannoma
San Francisco (San Francisco General Hospital) - Schwannoma
Santa Rosa (Santa Rosa Memorial Hospital) - Benign nerve sheath tumor (schwannoma) (1); Schwannoma (neurilemmoma) (1); Schwannoma (1)

Ventura - Low grade fibromyxoid sarcoma
Arizona (Maryvale Medical Center) - Dedifferentiated liposarcoma
Colorado, Evergreen - Schwannoma
Florida (Baptist Hospital) - Fibrous histiocytoma of deep soft tissue (1); Malignant fibrous histiocytoma (2); Favor schwannoma, would do S100 (1); Schwannoma (1)
Florida (Munroe Medical Center) - Schwannoma
Florida, Tallahassee - Schwannoma
Florida (Winter Haven Hospital) - Neurofibroma
Illinois, Burr Ridge - MPNST, well-differentiated
Illinois (Northwestern Memorial Hospital) - Schwannoma
Illinois, Oak Brook - Schwannoma
Indiana (Howard Community Hospital) - Neurilemmoma
Louisiana (Louisiana State University Health Science Center) - Neurilemmoma
Maryland (Johns Hopkins Hospital) - Schwannoma (1); Schwannoma vs. GIST (1)
Maryland (National Naval Medical Center) - Low grade sarcoma, favor leiomyosarcoma
Massachusetts (Berkshire Medical Center) - Fibrosarcoma, low grade
Massachusetts (New England Medical Center) - Musculoaponeurotic fibroma
Michigan (St. Joseph Mercy Hospital) - Schwannoma
Minnesota - Schwannoma
Minnesota (Fairview Southdale Hospital) - Nerve sheath tumor favor neurofibroma
New Mexico (University of New Mexico) - Leiomyoma
New York (Nassau University Medical Center) - Schwannoma
New York (Stony Brook University Hospital Residents) - Schwannoma
New York (Westchester Medical Center) - Solitary fibrous tumor
North Carolina (Mountain Area Pathology) - Low grade spindle cell tumor (1); Inflammatory myofibroblastic tumor (2); Solitary fibrous tumor vs. inflammatory myofibroblastic tumor (1)
Ohio (McCullough-Hyde Memorial Hospital) - Fibrous histiocytoma
Ohio (Medical College of Ohio) - Schwannoma
Pennsylvania (Allegheny General Hospital) - Spindle cell sarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Fibrohistiocytoma
Pennsylvania (Drexel University College of Medicine) - Schwannoma
Pennsylvania (Lehigh Valley Hospital) - Schwannoma
Pennsylvania (Magee Women's Hospital) - Schwannoma
Pennsylvania (Mt. Nittany Medical Center) - Inflammatory myofibroblastic tumor, retroperitoneum
Pennsylvania (Pennsylvania Hospital) - Retroperitoneal leiomyoma
Texas, Lubbock - Neurilemmoma
Texas (Propath Associates) - Retroperitoneal fibrosarcoma
Texas (Scott & White Memorial Hospital) - Solitary fibrous tumor
Washington, Vancouver - GIST vs. leiomyoma vs. low grade fibrosarcoma
West Virginia (Greenbrier Valley Medical Center) - Schwannoma
Wisconsin (Bellin Hospital) - Schwannoma
Australia (North Queensland Pathology) - Leiomyoma of uncertain malignant potential
Australia (Royal Prince Alfred Hospital) - Schwannoma
Brazil (UNIFES/EPM) - Schwannoma
Canada (Foothills Medical Center) - Schwannoma
Canada (Woodstock General Hospital) - Dedifferentiated liposarcoma, retroperitoneum
Hong Kong (Hong Kong Baptist Hospital) - Cellular schwannoma
Italy, Naples - Intramuscular myxoma
Netherlands, Amsterdam - Liposarcoma of the retroperitoneum
Puerto Rico (University of Puerto Rico) - Liposarcoma
Qatar - Benign spindle cell tumour, neurilemmoma/solitary fibrous tumour to be considered

Case 10 - Diagnosis:

Cellular schwannoma, retroperitoneum

T-Y4600, M-95600

Director's note: Note mildly increased cellularity without atypia, the lack of mitotic figures, the lack of dense collagen bundles and vague attempts (but real) at palisading. drc

Case 10 - References:

Hettiarachchi JA, Finkelstein MP, Schwartz AM, et al. Benign Retroperitoneal Schwannoma Presenting as a Giant Adrenal Tumor. *Urol Int* 2003; 71(2):231-232.

- Yano S, Hida K, Seki T, et al. Surgical Treatment of Retroperitoneal Presacral Large Schwannoma by the Anterior Transabdominal Approach. Two Cases Report. *No Shinkei Geka* 2003; 31(7):795-800. (Japanese)
- Okada N, Hirooka Y, Itoh A, et al. Retroperitoneal Neurilemoma Diagnosed by EUS-Guided FNA. *Gastrintest Endosc* 2003; 57(6):790-792.
- Descazeaud A, Coggia M, Bourriez A, et al. Laparoscopic Resection of a Retroperitoneal Schwannoma. *Surg Endosc* 2003; 17(3):520.
- Tong RS, Collier N and Kaye AH. Chronic Sciatica Secondary to Retroperitoneal Pelvic Schwannoma. *J Clin Neurosci* 2003; 10(1):108-111.