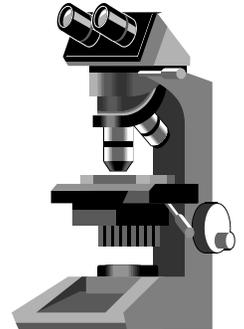


CALIFORNIA  
TUMOR TISSUE REGISTRY

*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. Tempany 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.

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

**FILE DIAGNOSES**

(If possible, submit answers on website at [www.cttr.org](http://www.cttr.org).  
Click “subscriptions”, then click submit answers”.)

**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) - Intraplental 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, 2<sup>nd</sup> 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 infraction 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 Phylloides 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:**

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- 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.
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