



CALIFORNIA  
TUMOR TISSUE REGISTRY

*GENERAL PATHOLOGY*

Minutes – Subscription A

March, 2004



**SUGGESTED READING (General Topics from Recent Literature):**

- Evaluation of Immunohistochemistry and Multiple-Level in Sentinel Lymph Nodes from Patients with Breast Cancer. Paragaonkar AS, Beissner RS, Snyder S and Speights VO Jr. *Arch Pathol Lab Med* 2003; 127:701-705.
- Histological Characteristics of Tumor in Vessels and Lymph Nodes are Significant Predictors of Progression of Invasive Ductal Carcinoma of the Breast. A Prospective Study. Hasebe T, Sasaki S, Imato S and Ochiai A. *Hum Pathol* 2004; 35 (3):298-308.
- Diverticular Disease of the Colon. Stollman N and Raskin JB. *Lancet* 2004; 363(9409):631-639.
- Primer on Medical Genomics Part XII. Pharmacogenomics - General Principles with Cancer as a Model. Goetz MP, Ames MM and Weinshilboum RM. *Mayo Clin Proc* 2004; 79(3):376-384.

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## **FILE DIAGNOSES**

**CTTR Subscription A**

**March, 2004**

**Case 1:**

Endometrial (“Endometrioid”) adenocarcinoma, uterus  
T-82000, M-83803

**Case 2:**

Low grade phyllodes tumor, breast  
T-04000, M-90213

**Case 3:**

Giant cell tumor, radius  
T-Y8600, M-92501

**Case 4:**

Gouty tophus, hallux  
T-Y9710, M-55070

**Case 5:**

Neuroblastoma with therapy-associated maturation (ganglioneuroblastoma), adrenal  
T-93000, M-94903

**Case 6:**

Adrenal cortical carcinoma, adrenal  
T-93000, M-83703

**Case 7:**

Angiomyolipoma, peri-nephric region  
T-Y4600, M-88600

**Case 8:**

Thymoma, thymus  
T-85800, M-85800

**Case 9:**

Gastrointestinal stromal tumor (GIST), bowel  
T-64000, M-96103

**Case 10:**

Abdominal fibromatosis (desmoid tumor)  
T-Y4100, M-76100

Alameda (Alameda County Medical Center) - Endometrioid adenocarcinoma  
Arcadia (Garfield Medical Center) - Clear cell adenocarcinoma  
Bakersfield - Endometrioid adenocarcinoma  
Baldwin Park (Kaiser Permanente) - Endometrioid adenocarcinoma (2); Endometrial carcinoma (deeply invasive) (1)  
Fontana (Kaiser Permanente) - Endometrioid adenocarcinoma  
Howard/Fremont - Endometrioid carcinoma, moderately differentiated  
Irvine (UC Irvine Residents) - Poorly differentiated adenocarcinoma  
Laguna Beach (South Coast Medical Center) - Grade I, endometrial adenocarcinoma  
Long Beach - Papillary serous adenocarcinoma (6); High-grade endometrioid carcinoma (1)  
Monterey (Community Hospital of Monterey Peninsula) - Endometrioid adenocarcinoma, grade 3 (2); Endometrial adenocarcinoma, endometrioid, grade 2 (2)  
Mountain View (El Camino Pathology Group) - Endometrial adenocarcinoma, FIGO 2 (2)  
Sacramento (UC Davis Medical Center) - Endometrioid carcinoma, grade II  
San Diego (Naval Medical Center) - Moderately differentiated endometrioid adenocarcinoma  
San Francisco (San Francisco General Hospital) - Carcinosarcoma  
Santa Barbara (Santa Barbara Cottage Hospital) - Adenocarcinoma, endometrioid type, grade II  
Santa Rosa (Santa Rosa Memorial Hospital) - Endometrioid adenocarcinoma (2); Poorly focally differentiated endometrial endometrioid adenocarcinoma (1)  
Ventura - Endometrioid endometrial adenocarcinoma  
Alaska (Alaska Native Medical Center) - Endometrioid endometrial adenocarcinoma, FIGO grade 2  
Arizona (Maryvale Medical Center) - Serous carcinoma, endometrium  
Colorado (Evergreen) - Anaplastic carcinoma/adenocarcinoma  
Colorado (Lutheran Medical Center) - Papillary serous carcinoma  
Florida (Baptist Hospital) - Endometrioid adenocarcinoma (3); Endometrial carcinoma, FIGO I-II (1); Endometrial carcinoma (1)  
Florida (Ocala) - Endometrial adenocarcinoma  
Florida (Tallahassee) - Adenocarcinoma  
Florida (Winter Haven Hospital) - Carcinosarcoma (2)  
Illinois (Burr Ridge) - Villoglandular endometrial carcinoma  
Illinois (Evanston Hospital) - Endometrioid adenocarcinoma  
Indiana (Ball Memorial Hospital) - Endometrioid adenocarcinoma  
Indiana (Howard Community Hospital) - Endometrial carcinoma  
Kansas (Kansas University Medical Center) - Endometrial adenocarcinoma, endometrioid type, FIGO II, nuclear grading II (3)  
Maryland (National Naval Medical Center) - Endometrioid adenocarcinoma  
Maryland (Johns Hopkins Hospital Residents) - Endometrioid adenocarcinoma, FIGO II  
Massachusetts (Berkshire Medical Center) - Endometrioid adenocarcinoma, FIGO grade III  
Massachusetts (New England Medical Center Residents) - Endometrial adenocarcinoma, endometrioid type  
Minnesota (Fairview Southdale Hospital) - Endometrioid adenocarcinoma, villoglandular type  
New Jersey (Overlook Hospital) - Adenocarcinoma, poorly differentiated consistent with neuroendocrine differentiation  
New York (Long Island Jewish Medical Center) - Poorly differentiated endometrioid adenocarcinoma  
New York (Nassau University Medical Center) - Poorly differentiated adenocarcinoma with clear cell feature  
New York, New York - Grade 3, endometrioid carcinoma of the endometrioid -- ? clear cell features  
New York (New York Presbyterian Cornell Residents) - Endometrioid carcinoma  
North Carolina (Mountain Area Pathology) - Endometrial adenocarcinoma (1); Endometrioid adenocarcinoma (1); Endometrial adenocarcinoma consistent with poorly differentiated tumor at serosal surface (1); Poorly differentiated endometrioid carcinoma (1)  
Ohio (Medical College of Ohio) - Moderately differentiated adenocarcinoma, endometrioid type with squamous metaplasia (1)  
Oklahoma (Tulsa) - Endometrioid type adenocarcinoma, poorly differentiated  
Pennsylvania (Allegheny General Hospital) - Poorly differentiated endometrial carcinoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Endometrial carcinoma  
Pennsylvania (Drexel University College of Medicine) - Endometrial carcinoma, endometrioid type  
Pennsylvania (Lehigh Valley Hospital) - Endometrial adenocarcinoma

Pennsylvania (Mount Nittany Medical Center) - Endometrial adenocarcinoma  
Pennsylvania (York Hospital) - Endometrial adenocarcinoma, endometrioid type, FIGO 3(4); Endometrial adenocarcinoma (2)  
Puerto Rico (University of Puerto Rico) - Endometrial carcinoma, endometrioid type, FIGO grade 2  
Rhode Island (RI Hospital Residents) - Endometrioid carcinoma  
Texas (Lubbock) - Papillary serous carcinoma  
Texas (Propath Associates) - Endometrial adenocarcinoma (2)  
Texas (San Antonio) - Endometrial adenocarcinoma, endometrioid type  
Texas (Scott & White Memorial Hospital) - Invasive endometrioid adenocarcinoma  
Wisconsin (Meriter Hospital) - Endometrioid adenocarcinoma  
Wyoming (Greenbrier Valley Medical Center) - Endometrial adenocarcinoma, endometrioid  
Australia (North Queensland Pathology) - Endometrioid endometrial adenocarcinoma  
Australia (Royal Prince Alfred Hospital) - Endometrioid adenocarcinoma, grade 2  
Canada (Foothills Medical Center) - Endometrioid adenocarcinoma  
Hong Kong (Hong Kong Baptist Hospital) - Clear cell carcinoma  
Italy (Naples) - Grade 3 endometrioid adenocarcinoma  
Saudi Arabia - Endometrioid adenocarcinoma, uterus

### **Case 1 – Diagnosis:**

Endometrial (“Endometrioid”) adenocarcinoma, uterus  
 T-82000, M-83803

### **Case 1 – References:**

Mutter GL. Histopathology of Genetically Defined Endometrial Precancers. *Int J Gynecol Pathol* 2000; 19(4):301-309.  
 Zaino RJ. Endometrial Hyperplasia. It is Time for a Quantum Leap to a New Classification. *Int J Gynecol Pathol* 2000; 19(4):315-321.  
 Silva EG and Fallen-Mitchell M. Malignant Neoplasms of the Uterine Corpus in Patient Treated for Breast Carcinoma. The Effects of Tamoxifen. *Int J Gynecol Pathol* 1994; 13(3):248-258.  
 Ruhul Quddus M, Latkovich P, Castellani WJ, et al. Expression of Cyclin D1 in Normal, Metaplastic, Hyperplastic Endometrium and Endometrioid Carcinoma Suggests a Role in Endometrial Carcinogenesis. *Arch Pathol Lab Med* 2002; 126(4):459-463.  
 Clement PB and Young RH. Endometrioid Carcinoma of the Uterine Corpus. A Review of its Pathology with Emphasis on Recent Advances and Problematic Aspects. *Adv Ant Pathol* 2002; 9(3):145-184.

## **Case No. 2, Accession No. 29776**

**March 2004**

Alameda (Alameda County Medical Center) - Juvenile fibroadenoma  
Arcadia (Garfield Medical Center) - Benign phyllodes tumor  
Bakersfield - Fibroadenoma  
Baldwin Park (Kaiser Permanente) - Benign phyllodes tumor (1); Phyllodes tumor (2)  
Fontana (Kaiser Permanente) - Fibroadenoma  
Howard/Fremont - Phyllodes tumor, benign  
Irvine (UC Irvine Residents) - Cellular fibroadenoma  
Laguna Beach (South Coast Medical Center) - Juvenile fibroadenoma  
Long Beach - Phyllodes tumor, benign (4); Juvenile cellular fibroadenoma (3)  
Monterey (Community Hospital of Monterey Peninsula) - Fibroadenoma (2); Favor fibroadenoma vs. benign phyllodes (1); Juvenile fibroadenoma (1)  
Mountain View (El Camino Pathology Group) - Phyllodes tumor (2)  
Sacramento (UC Davis Medical Center) - Fibroadenoma  
San Diego (Naval Medical Center) - Juvenile fibroadenoma (10); Benign phyllodes tumor (3)  
San Francisco (San Francisco General Hospital) - Phyllodes tumor  
Santa Barbara (Santa Barbara Cottage Hospital) - Cellular fibroadenoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Benign phyllodes tumor (2); Phyllodes tumor (1)  
Ventura - Phyllodes tumor  
Alaska (Alaska Native Medical Center) - Cellular fibroadenoma

Arizona (Maryvale Medical Center) - Serous carcinoma, endometrium  
Colorado (Evergreen) - Benign phyllodes tumor  
Colorado (Lutheran Medical Center) - Phyllodes tumor  
Florida (Baptist Hospital) - Phyllodes tumor, benign (3); Phyllodes tumor (2)  
Florida (Ocala) - Fibroadenoma  
Florida (Tallahassee) - Fibroadenoma variant, benign phyllodes tumor  
Florida (Winter Haven Hospital) - Benign phyllodes tumor (2)  
Illinois (Burr Ridge) - Myxoid fibroadenoma  
Illinois (Evanston Hospital) - Phyllodes tumor  
Indiana (Ball Memorial Hospital) - Benign phyllodes tumor  
Indiana (Howard Community Hospital) - Cellular fibroadenoma  
Kansas (Kansas University Medical Center) - Juvenile fibroadenoma (3)  
Maryland (National Naval Medical Center) - Cellular fibroadenoma  
Maryland (Johns Hopkins Hospital Residents) - Phyllodes tumor  
Massachusetts (Berkshire Medical Center) - Fibroadenoma (4); Phyllodes, benign (2)  
Massachusetts (New England Medical Center Residents) - Phyllodes tumor, benign  
Minnesota (Fairview Southdale Hospital) - Phyllodes tumor  
New Jersey (Overlook Hospital) - Phyllodes tumor of low malignant potential  
New York (Long Island Jewish Medical Center) - Fibroadenoma  
New York (Nassau University Medical Center) - Phyllodes tumor, benign  
New York, New York - Phyllodes tumor, favor benign  
New York (New York Presbyterian Cornell Residents) - Phyllodes tumor, benign  
North Carolina (Mountain Area Pathology) - Fibroadenoma with myxoid metaplasia (2); Fibroadenoma consistent with prominent smooth muscle component (1); Fibroadenoma (1)  
Ohio (Medical College of Ohio) - Fibroadenoma with stromal cellularity  
Oklahoma (Tulsa) - Fibroadenoma  
Pennsylvania (Allegheny General Hospital) - Phyllodes tumor  
Pennsylvania (Conemaugh Memorial Medical Center) - Phyllodes tumor  
Pennsylvania (Drexel University College of Medicine) - Phyllodes tumor  
Pennsylvania (Lehigh Valley Hospital) - Phyllodes tumor  
Pennsylvania (Mount Nittany Medical Center) - Phyllodes tumor, low-grade  
Pennsylvania (York Hospital) - Cellular or juvenile fibroadenoma (2); Cellular fibroadenoma (2); Juvenile fibroadenoma (2)  
Puerto Rico (University of Puerto Rico) - Fibroadenoma  
Rhode Island (RI Hospital Residents) - Fibroadenoma  
Texas (Lubbock) - Giant fibroadenoma  
Texas (ProPath Associates) - Benign phyllodes tumor of breast (2)  
Texas (San Antonio) - Cellular fibroadenoma  
Texas (Scott & White Memorial Hospital) - Phyllodes tumor, low grade  
Wisconsin (Meriter Hospital) - Cellular fibroadenoma  
Wyoming (Greenbrier Valley Medical Center) - Phyllodes tumor  
Australia (North Queensland Pathology) - Benign phyllodes tumor  
Australia (Royal Prince Alfred Hospital) - Benign phyllodes  
Canada (Foothills Medical Center) - Low grade phyllodes tumor  
Hong Kong (Hong Kong Baptist Hospital) - Fibroadenoma with cellular stroma  
Italy (Naples) - Phyllodes tumor  
Saudi Arabia - Fibroadenoma, breast

## **Case 2 - Diagnosis:**

Low grade phyllodes tumor, breast  
 T-04000, M-90213

### Case 2 - References:

- Feakins RM, Mulcahy HE, Nichols CD, et al. p53 Expression in Phyllodes Tumours is Associated with Histological Features of Malignancy But Does Not Predict Outcome. *Histopathol* 1999; 35(2):162-169.
- Dacic S, Kounelis S, Kouri E, et al. Immunohistochemical Profile of Cystosarcoma Phyllodes of the Breast. A Study of 23 Cases. *Breast J* 2002; 8(6):376-381.
- Latif Z, Clark D, Nairn ER, et al. Phyllodes Tumor of the Prostate. A Rare Condition Requiring Careful Surveillance. *J Urol* 2003; 170(5):1944.
- Ortega E, Aranda FI, Chulia MT, et al. Phyllodes Tumor of the Breast with Actin Inclusions in Stromal Cells. Diagnosis by Fine-Needle Aspiration Cytology. *Diagn Cytopathol* 2001; 25(2):115-117.
- Moore T and Lee AH. Expression of CD34 and bcl-2 in Phyllodes Tumours, Fibroadenomas and Spindle Cell Lesions of the Breast. *Histopathol* 2001; 38(1):62-67.
- Chulia MT, Paya A, Niveiro M, et al. Phyllodes Tumor in Ectopic Breast Tissue of the Vulva. *Int J Surg Pathol* 2001; 9(1):81-83.

### Case No. 3, Accession No. 29705

March 2004

Alameda (Alameda County Medical Center) - Giant cell tumor

Arcadia (Garfield Medical Center) - Giant cell tumor of bone

Bakersfield - Giant cell tumor of tendon sheath

Baldwin Park (Kaiser Permanente) - Giant cell tumor of bone (3)

Fontana (Kaiser Permanente) - Osteosarcoma

Howard/Fremont - Brown tumor of hyperparathyroidism vs. GCT of bone

Irvine (UC Irvine Residents) - Giant cell tumor of bone

Laguna Beach (South Coast Medical Center) - Giant cell tumor

Long Beach - Giant cell tumor (7)

Monterey (Community Hospital of Monterey Peninsula) - Giant cell tumor of bone (4)

Mountain View (El Camino Pathology Group) - Giant cell tumor (2)

Sacramento (UC Davis Medical Center) - Giant cell tumor

San Diego (Naval Medical Center) - Giant cell tumor (10); Osteosarcoma (3)

San Francisco (San Francisco General Hospital) - Giant cell tumor

Santa Barbara (Santa Barbara Cottage Hospital) - Aneurysmal bone cyst, solid variant

Santa Rosa (Santa Rosa Memorial Hospital) - Giant cell tumor of bone (3)

Ventura - Giant cell tumor of bone

Alaska (Alaska Native Medical Center) - Giant cell tumor of tendon sheath

Arizona (Maryvale Medical Center) - Malignant giant cell tumor

Colorado (Evergreen) - Giant cell tumor

Colorado (Lutheran Medical Center) - Giant cell tumor

Florida (Baptist Hospital) - Giant cell tumor (5)

Florida (Ocala) - Giant cell tumor

Florida (Tallahassee) - Giant cell tumor

Florida (Winter Haven Hospital) - Giant cell tumor (2)

Illinois (Burr Ridge) - Giant cell tumor

Illinois (Evanston Hospital) - Giant cell tumor of bone

Indiana (Ball Memorial Hospital) - Giant cell tumor of bone

Indiana (Howard Community Hospital) - Giant cell tumor of bone

Kansas (Kansas University Medical Center) - Giant cell tumor (3)

Maryland (National Naval Medical Center) - Giant cell tumor of bone

Maryland (Johns Hopkins Hospital Residents) - Giant cell tumor of bone

Massachusetts (Berkshire Medical Center) - Giant cell tumor

Massachusetts (New England Medical Center Residents) - Giant cell tumor of bone

Minnesota (Fairview Southdale Hospital) - Osteosarcoma, correlate with radiographs

New Jersey (Overlook Hospital) - Giant cell tumor of bone

New York (Long Island Jewish Medical Center) - Giant cell tumor

New York (Nassau University Medical Center) - Giant cell tumor

New York, New York - Giant cell tumor vs. non-ossifying fibroma vs. giant cell reparative granuloma  
New York (New York Presbyterian Cornell Residents) - Giant cell tumor  
North Carolina (Mountain Area Pathology) - Giant cell tumor of bone (4)  
Ohio (Medical College of Ohio) - Giant cell tumor  
Oklahoma (Tulsa) - Giant cell tumor  
Pennsylvania (Allegheny General Hospital) - Giant cell tumor  
Pennsylvania (Conemaugh Memorial Medical Center) - Giant cell tumor  
Pennsylvania (Drexel University College of Medicine) - Giant cell tumor of bone  
Pennsylvania (Lehigh Valley Hospital) - Giant cell tumor of bone  
Pennsylvania (Mount Nittany Medical Center) - Giant cell tumor of bone  
Pennsylvania (York Hospital) - Benign giant cell lesion of bone (giant cell tumor vs. giant cell reparative granuloma) with pathologic fracture; (4); Giant cell tumor (2)  
Puerto Rico (University of Puerto Rico) - Giant cell tumor  
Rhode Island (RI Hospital Residents) - Giant cell tumor of bone  
Texas (Lubbock) - Giant cell tumor  
Texas (Propath Associates) - Benign giant cell tumor (1); Aneurysmal bone cyst (1)  
Texas (San Antonio) - Benign giant cell lesion, favor GCT of bone (DDx: Brown tumor, giant cell reparative granuloma, solid aneurysmal bone cyst, BFH/NOF and PVNS)  
Texas (Scott & White Memorial Hospital) - Giant cell tumor  
Wisconsin (Meriter Hospital) - Giant cell tumor  
Wyoming (Greenbrier Valley Medical Center) - Giant cell tumor  
Australia (North Queensland Pathology) - Myositis ossificans  
Australia (Royal Prince Alfred Hospital) - Giant cell tumor of bone (osteoclastoma)  
Canada (Foothills Medical Center) - Giant cell tumor  
Hong Kong (Hong Kong Baptist Hospital) - Pigmented villonodular synovitis  
Italy (Naples) - Osteoblastoma  
Saudi Arabia - Giant cell tumors, wrist

### **Case 3 - Diagnosis:**

Giant cell tumor, radius  
 T-Y8600, M-92501

### **Case 3 - References:**

Wulling M, Delling G and Kaiser E. The Origin of the Neoplastic Stromal Cell in Giant Cell Tumor of Bone. *Hum Pathol* 2003; 34(10):983-993.  
 Bertoni F, Bacchini P and Staals EL. Malignancy in Giant Cell Tumor of Bone. *Cancer* 2003; 97(10):2520-2529.  
 Fadare O. Benign Metastasizing Giant Cell Tumor. *Arch Pathol Lab Med* 2002; 126(9):1133-1134.  
 Olivera P, Perez E, Ortega A, et al. Estrogen Receptor Expression in Giant Cell Tumors of the Bone. *Hum Pathol* 2002; 33(2):165-169.

### **Case No. 4, Accession No. 29813**

**March 2004**

Alameda (Alameda County Medical Center) - Tophaceous gout  
Arcadia (Garfield Medical Center) - Gouty tophus  
Bakersfield - Gout  
Baldwin Park (Kaiser Permanente) - Gout tophus (2)  
Fontana (Kaiser Permanente) - Gout  
Howard/Fremont - Gout  
Irvine (UC Irvine Residents) - Tophus  
Laguna Beach (South Coast Medical Center) - Gouty tophus  
Long Beach - Gouty tophus (7)  
Monterey (Community Hospital of Monterey Peninsula) - Gouty tophus

Mountain View (El Camino Pathology Group) - Gouty tophus  
Sacramento (UC Davis Medical Center) - Gouty tophus  
San Diego (Naval Medical Center) - Gouty arthritis  
San Francisco (San Francisco General Hospital) - Gouty tophus  
Santa Barbara (Santa Barbara Cottage Hospital) - Gouty tophus  
Santa Rosa (Santa Rosa Memorial Hospital) - Gouty tophus (3)  
Ventura - Gouty tophus  
Alaska (Alaska Native Medical Center) - Gouty tophus  
Arizona (Maryvale Medical Center) - Gouty tophus  
Colorado (Evergreen) - Gouty tophus  
Colorado (Lutheran Medical Center) - Gouty tophus  
Florida (Baptist Hospital) - Tophus gout (5)  
Florida (Ocala) - Tophus gout  
Florida (Tallahassee) - Gout  
Florida (Winter Haven Hospital) - Gout (2)  
Illinois (Burr Ridge) - Gouty tophus  
Illinois (Evanston Hospital) - Gout  
Indiana (Ball Memorial Hospital) - Gouty tophus  
Indiana (Howard Community Hospital) - Podagra  
Kansas (Kansas University Medical Center) - Gouty tophus (3)  
Maryland (National Naval Medical Center) - Gouty tophus  
Maryland (Johns Hopkins Hospital Residents) - Gout  
Massachusetts (Berkshire Medical Center) - Tophaceous gout  
Massachusetts (New England Medical Center Residents) - Gouty tophus  
Minnesota (Fairview Southdale Hospital) - Gouty tophus  
New Jersey (Overlook Hospital) - Gouty tophus  
New York (Long Island Jewish Medical Center) - Gout  
New York (Nassau University Medical Center) - Gouty nodule  
New York, New York - Gouty tophus  
New York (New York Presbyterian Cornell Residents) - Gout tophus  
North Carolina (Mountain Area Pathology) - Gouty tophus (4)  
Ohio (Medical College of Ohio) - Tophaceous gout  
Oklahoma (Tulsa) - Gouty tophus  
Pennsylvania (Allegheny General Hospital) - Gouty tophus  
Pennsylvania (Conemaugh Memorial Medical Center) - Gout, tophi  
Pennsylvania (Drexel University College of Medicine) - Gout  
Pennsylvania (Lehigh Valley Hospital) - Gout  
Pennsylvania (Mount Nittany Medical Center) - Gouty tophus (monosodium urate deposition disease)  
Pennsylvania (York Hospital) - Tophaceous gout (6)  
Puerto Rico (University of Puerto Rico) - Tophus  
Rhode Island (RI Hospital Residents) - Gout  
Texas (Lubbock) - Tumoral calcinosis  
Texas (ProPath Associates) - Gouty tophus (2)  
Texas (San Antonio) - Gouty tophus  
Texas (Scott & White Memorial Hospital) - Gouty tophus  
Wisconsin (Meriter Hospital) - Gouty tophus  
Wyoming (Greenbrier Valley Medical Center) - Enchondroma  
Australia (North Queensland Pathology) - Gout  
Australia (Royal Prince Alfred Hospital) - Gouty tophus  
Canada (Foothills Medical Center) - Gouty tophus  
Hong Kong (Hong Kong Baptist Hospital) - Gouty tophi  
Italy (Naples) - Gouty tophus  
Saudi Arabia - Gout, right big toe



**Case 4 - Diagnosis:**

Gouty tophus, hallux  
T-Y9710, M-55070

**Case 4 - References:**

King DF and King LA. The Appropriate Processing of Tophi for Microscopy. *Am J Dermatopathol* 4(3):239.  
Lichtenstein L, Scott HW and Levin MH. Pathologic Changes in Gout. Survey of Eleven Necropsied Cases. *Am J Pathol* 1956; 32(5):871-895.  
Paik SS and Park MH. Fine Needle Aspiration Cytology of Gouty Tophus in a Patient with Rheumatoid Arthritis. *Acta Cytol* 2002; 46(5):1024-1025.  
Zaloga B, Hughes JL and Hoda RS. Pathologic Quiz Case. A Soft Tissue Mass with Bone Destruction. Gouty Tophus. *Arch Pathol Lab Med* 2002; 126(5):621-622.  
Dodd LG and Major NM. Fine-Needle Aspiration Cytology of Articular and Periarticular Lesions. *Cancer* 2002; 96(3):157-165.

**Case No. 5, Accession No. 29756****March 2004**

Alameda (Alameda County Medical Center) - Ganglioneuroblastoma, treated  
Arcadia (Garfield Medical Center) - Composite pheochromocytoma  
Bakersfield - Ganglioneuroma  
Baldwin Park (Kaiser Permanente) - Ganglioneuroma vs. matured neuroblastoma (3)  
Fontana (Kaiser Permanente) - Ganglioneuroblastoma  
Howard/Fremont - Ganglioneuroblastoma, grade I  
Irvine (UC Irvine Residents) - Ganglioneuroblastoma  
Laguna Beach (South Coast Medical Center) - Ganglioneuroma  
Long Beach - Ganglioneuroma, status post therapy (7)  
Monterey (Community Hospital of Monterey Peninsula) - Ganglioneuroma  
Mountain View (El Camino Pathology Group) - Ganglioneuroblastoma (1); Ganglioneuroma (1)  
Sacramento (UC Davis Medical Center) - Ganglioneuroma  
San Diego (Naval Medical Center) - Ganglioneuroblastoma, intermixed  
San Francisco (San Francisco General Hospital) - Ganglioneuroma  
Santa Barbara (Santa Barbara Cottage Hospital) - Ganglioneuroblastoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Ganglioneuroma (3)  
Ventura - Ganglioneuroma  
Alaska (Alaska Native Medical Center) - Ganglioneuroblastoma (2); Ganglioneuroma (1)  
Arizona (Maryvale Medical Center) - Ganglioneuroblastoma, intermixed  
Colorado (Evergreen) - Ganglioneuroma  
Colorado (Lutheran Medical Center) - Ganglioneuroma  
Florida (Baptist Hospital) - Composite pheochromocytoma with ganglioneuroma (1); Ganglioneuroblastoma (3); Ganglioneuroblastoma, imperfect type (1)  
Florida (Ocala) - Ganglioneuroblastoma (neuroma)  
Florida (Tallahassee) - Ganglioneuroblastoma  
Florida (Winter Haven Hospital) - Ganglioneuroblastoma (2)  
Illinois (Burr Ridge) - Ganglioneuroma  
Illinois (Evanston Hospital) - Ganglioneuroma  
Indiana (Ball Memorial Hospital) - Ganglioneuroblastoma  
Indiana (Howard Community Hospital) - Pheochromocytoma  
Kansas (Kansas University Medical Center) - Ganglioneuroblastoma (3)  
Maryland (National Naval Medical Center) - Ganglioneuroblastoma, intermixed  
Maryland (Johns Hopkins Hospital Residents) - Maturing neuroblastoma s/p chemotherapy  
Massachusetts (Berkshire Medical Center) - Treated ganglioneuroblastoma  
Massachusetts (New England Medical Center Residents) - Ganglioneuroblastoma

Minnesota (Fairview Southdale Hospital) - Ganglioneuroma, favor treatment inclined maturation of neuroblastoma  
New Jersey (Overlook Hospital) - Ganglioneuroma  
New York (Long Island Jewish Medical Center) - Ganglioneuroblastoma  
New York (Nassau University Medical Center) - Ganglioneuroblastoma  
New York, New York - Ganglioneuroblastoma, very few neuroblasts (differentiating secondary to therapy)  
New York (New York Presbyterian Cornell Residents) - Ganglioneuroma  
North Carolina (Mountain Area Pathology) - Ganglioneuroblastoma (4)  
Ohio (Medical College of Ohio) - Ganglioneuroblastoma  
Oklahoma (Tulsa) - Ganglioneuroblastoma  
Pennsylvania (Allegheny General Hospital) - Ganglioneuroblastoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Ganglioneuroblastoma  
Pennsylvania (Drexel University College of Medicine) - Ganglioneuroma  
Pennsylvania (Lehigh Valley Hospital) - Ganglioneuroma  
Pennsylvania (Mount Nittany Medical Center) - Ganglioneuroblastoma, adrenal gland  
Pennsylvania (York Hospital) - Ganglioneuroblastoma (6)  
Puerto Rico (University of Puerto Rico) - Ganglioneuroma/ganglioneuroblastoma  
Rhode Island (RI Hospital Residents) - Ganglioneuroblastoma  
Texas (Lubbock) - Ganglioneuroblastoma  
Texas (ProPath Associates) - Ganglioneuroma (2)  
Texas (San Antonio) - Ganglioneuroblastoma  
Texas (Scott & White Memorial Hospital) - Ganglioneuroblastoma  
Wisconsin (Meriter Hospital) - Ganglioneuroma  
Wyoming (Greenbrier Valley Medical Center) - Adrenal cortical neoplasm  
Australia (North Queensland Pathology) - Ganglioneuroblastoma  
Australia (Royal Prince Alfred Hospital) - Ganglioneuroblastoma, differentiating  
Canada (Foothills Medical Center) - Ganglioneuroblastoma  
Hong Kong (Hong Kong Baptist Hospital) - Neuroblastoma, stroma-rich  
Italy (Naples) - Ganglioneuroblastoma  
Saudi Arabia - Ganglioneuroma, maturing type

#### **Case 5 - Diagnosis:**

Neuroblastoma with therapy-associated maturation (ganglioneuroblastoma), adrenal  
 T-93000, M-94903

#### **Case 5 - References:**

Hiroshige K, Sonoda S, Fujita M, et al. Primary Adrenal Ganglioneuroblastoma in an Adult. *Int Med* 1995; 34(12):1168-1173.  
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 Loneragan GJ, Schwab CM, Suarez ES, et al. Neuroblastoma, Ganglioneuroblastoma, Ganglioneuroma. *Radiologic-Pathologic Correlation. Radiographics* 2002; 22(4):911-934.  
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 Shimada H, Umehara S, Monobe Y, et al. International Neuroblastoma Pathology Classification for Prognostic Evaluation of Patients with Peripheral Neuroblastic Tumors. A Report From the Children's Cancer Group. *Cancer* 2001;92(9):2451-2461.

#### **Case No. 6, Accession No. 29680**

**March 2004**

Alameda (Alameda County Medical Center) - Adrenal cortical carcinoma  
Arcadia (Garfield Medical Center) - Adrenal cortical carcinoma  
Bakersfield - Adrenal cortical carcinoma  
Baldwin Park (Kaiser Permanente) - Adrenocortical carcinoma (3)  
Fontana (Kaiser Permanente) - Adrenal cortical carcinoma

[Howard/Fremont](#) - Adrenocortical tumor, probably malignant  
[Irvine \(UC Irvine Residents\)](#) - Adrenal cortical carcinoma  
[Laguna Beach \(South Coast Medical Center\)](#) - Neuroendocrine carcinoma vs. atypical carcinoid  
[Long Beach](#) - Adrenocortical carcinoma (7)  
[Monterey \(Community Hospital of Monterey Peninsula\)](#) - Adrenal cortical carcinoma (4)  
[Mountain View \(El Camino Pathology Group\)](#) - Adrenocortical adenocarcinoma (2)  
[Sacramento \(UC Davis Medical Center\)](#) - Adrenal cortical carcinoma  
[San Diego \(Naval Medical Center\)](#) - Adrenal cortical carcinoma  
[San Francisco \(San Francisco General Hospital\)](#) - Composite pheochromocytoma  
[Santa Barbara \(Santa Barbara Cottage Hospital\)](#) - Adrenal cortical carcinoma  
[Santa Rosa \(Santa Rosa Memorial Hospital\)](#) - Adrenal cortical carcinoma (1); Adrenocortical carcinoma (2)  
[Ventura](#) - Adrenal cortical carcinoma  
[Alaska \(Alaska Native Medical Center\)](#) - Adrenocortical carcinoma  
[Arizona \(Maryvale Medical Center\)](#) - Adrenal cortical carcinoma  
[Colorado \(Evergreen\)](#) - Adrenal cortical carcinoma  
[Colorado \(Lutheran Medical Center\)](#) - Adrenal cortical carcinoma  
[Florida \(Baptist Hospital\)](#) - Adrenal cortical carcinoma (5)  
[Florida \(Ocala\)](#) - Cortical adenoma  
[Florida \(Tallahassee\)](#) - Adrenal cortical carcinoma  
[Florida \(Winter Haven Hospital\)](#) - Metastatic adenocarcinoma (1); Adenocarcinoma, metastatic (1)  
[Illinois \(Burr Ridge\)](#) - Cortical carcinoma  
[Illinois \(Evanston Hospital\)](#) - Adrenal cortical carcinoma  
[Indiana \(Ball Memorial Hospital\)](#) - Adrenocortical adenoma  
[Indiana \(Howard Community Hospital\)](#) - Adrenal adenoma, ? capsular penetration  
[Kansas \(Kansas University Medical Center\)](#) - Adrenal corticocarcinoma (3)  
[Maryland \(National Naval Medical Center\)](#) - Adrenal corticocarcinoma  
[Maryland \(Johns Hopkins Hospital Residents\)](#) - Adrenal cortical neoplasm, favoring carcinoma  
[Massachusetts \(Berkshire Medical Center\)](#) - Adrenocortical carcinoma  
[Massachusetts \(New England Medical Center Residents\)](#) - Adrenal cortical carcinoma  
[Minnesota \(Fairview Southdale Hospital\)](#) - Adrenal cortical carcinoma  
[New Jersey \(Overlook Hospital\)](#) - Adrenal cortical carcinoma  
[New York \(Long Island Jewish Medical Center\)](#) - Cortical adenoma  
[New York \(Nassau University Medical Center\)](#) - Cortical carcinoma  
[New York, New York](#) - Adrenocortical neoplasm, favor malignant vs. metastatic neuroendocrine carcinoma (would perform a synaptophysin) vs. adrenal corticomedullary tumor  
[New York \(New York Presbyterian Cornell Residents\)](#) - Adrenal cortical carcinoma  
[North Carolina \(Mountain Area Pathology\)](#) - Adrenocortical carcinoma (1); Adrenal cortical carcinoma (3)  
[Ohio \(Medical College of Ohio\)](#) - Adrenocortical carcinoma  
[Oklahoma \(Tulsa\)](#) - Adrenal cortical adenoma  
[Pennsylvania \(Allegheny General Hospital\)](#) - Adrenal cortical carcinoma  
[Pennsylvania \(Conemaugh Memorial Medical Center\)](#) - Adrenocortical carcinoma  
[Pennsylvania \(Drexel University College of Medicine\)](#) - Adrenal adenoma with hyperaldosteronism  
[Pennsylvania \(Lehigh Valley Hospital\)](#) - Carcinoma, favor metastatic  
[Pennsylvania \(Mount Nittany Medical Center\)](#) - Adrenal cortical carcinoma  
[Pennsylvania \(York Hospital\)](#) - Adrenal cortical carcinoma (1); Adrenocortical carcinoma (5)  
[Puerto Rico \(University of Puerto Rico\)](#) - Cortical adenocarcinoma  
[Rhode Island \(RI Hospital Residents\)](#) - Adrenal cortical adenoma  
[Texas \(Lubbock\)](#) - Adenoma  
[Texas \(ProPath Associates\)](#) - Aldosterone producing adrenocortical carcinoma (1); Adrenal cortical adenoma (1)  
[Texas \(San Antonio\)](#) - Adrenal cortical carcinoma  
[Texas \(Scott & White Memorial Hospital\)](#) - Adrenal cortical carcinoma  
[Wisconsin \(Meriter Hospital\)](#) - Pheochromocytoma

Wyoming (Greenbrier Valley Medical Center) - Adrenal cortical carcinoma  
Australia (North Queensland Pathology) - Adrenal cortical carcinoma  
Australia (Royal Prince Alfred Hospital) - Adrenal cortical carcinoma  
Canada (Foothills Medical Center) - Adrenal cortical carcinoma  
Hong Kong (Hong Kong Baptist Hospital) - Adrenal cortical carcinoma  
Italy (Naples) - Adrenal cortical carcinoma  
Saudi Arabia - Adrenal cortical carcinoma, adrenal

#### **Case 6 - Diagnosis:**

Adrenal cortical carcinoma, adrenal  
T-93020, M-83703

Consultation: Dr. Kempson, Stanford University: "Adrenal cortical carcinoma".

#### **Case 6 - References:**

Izumi M, Serizawa H, Iwaya K, et al. A Case of Myxoid Adrenocortical Carcinoma with Extensive Lipomatous Metaplasia. *Arch Pathol Lab Med* 2003; 127(2):227-230.  
Tritos NA, Curshing GW, Heatley G, et al. Clinical Features and Prognostic Factors Associated with Adrenocortical Carcinoma. Lahey Clinic Medical Center Experience. *Am Surg* 2000; 66(1):73-79.  
Yang B, Ali SZ and Rosenthal DL. CD10 Facilitates the Diagnosis of Metastatic Renal Cell Carcinoma from Primary Adrenal Cortical Neoplasm in Adrenal Fine-Needle Aspiration. *Diagn Cytopathol* 2002; 27(3):149-152.  
Laforga JB and Aranda FI. Giant Adrenal Cortical Carcinoma, Clinically "Nonfunctional". Report of a Case Containing Cytoplasmic Hyaline Globules of Vimentin. *Diagn Cytopathol* 1999; 21(6):394-397.  
Wieczorek TJ, Pinkus JL, Glickman JN, et al. Comparison of Thyroid Transcription Factor-1 and Hepatocyte Antigen Immunohistochemical Analysis in the Differential Diagnosis of Hepatocellular Carcinoma, Metastatic Adenocarcinoma, Renal Cell Carcinoma, and Adrenal Cortical Carcinoma. *Am J Clin Pathol* 2002; 118(6):911-921.  
Terzolo M, Boccuzzi A, Bovio S, et al. Immunohistochemical Assessment of Ki-67 in the Differential Diagnosis of Adrenocortical Tumors. *Urol* 2001; 57(1):176-182.

#### **Case No. 7, Accession No. 29807**

**March 2004**

Alameda (Alameda County Medical Center) - Angiomyolipoma  
Arcadia (Garfield Medical Center) - Angiomyolipoma  
Bakersfield - Angiomyolipoma  
Baldwin Park (Kaiser Permanente) - Angiomyolipoma (3)  
Fontana (Kaiser Permanente) - Perivascular epithelioid cell tumor/angiomyolipoma  
Howard/Fremont - Angiomyolipoma  
Irvine (UC Irvine Residents) - Angiomyolipoma  
Laguna Beach (South Coast Medical Center) - Angiomyolipoma  
Long Beach - Angiomyolipoma (7)  
Monterey (Community Hospital of Monterey Peninsula) - Angiomyolipoma (3); Well-differentiated liposarcoma (1)  
Mountain View (El Camino Pathology Group) - Angiomyolipoma  
Sacramento (UC Davis Medical Center) - Angiomyolipoma  
San Diego (Naval Medical Center) - Angiomyolipoma  
San Francisco (San Francisco General Hospital) - Angiomyolipoma  
Santa Barbara (Santa Barbara Cottage Hospital) - Angiomyolipoma, (pecoma)  
Santa Rosa (Santa Rosa Memorial Hospital) - Angiomyolipoma (3)  
Ventura - Metastatic melanoma  
Alaska (Alaska Native Medical Center) - Angiomyolipoma  
Arizona (Maryvale Medical Center) - Angiomyolipoma  
Colorado (Evergreen) - Angiomyolipoma  
Colorado (Lutheran Medical Center) - Angiomyolipoma  
Florida (Baptist Hospital) - Angiomyolipoma (5)  
Florida (Ocala) - Angiomyolipoma

Florida (Tallahassee) - Round cell liposarcoma  
Florida (Winter Haven Hospital) - Angiomyolipoma (2)  
Illinois (Burr Ridge) - Angiomyolipoma  
Illinois (Evanston Hospital) - Angiomyolipoma  
Indiana (Ball Memorial Hospital) - Angiomyolipoma  
Indiana (Howard Community Hospital) - Lipoma with spindle cell features  
Kansas (Kansas University Medical Center) - Angiomyolipoma  
Maryland (National Naval Medical Center) - Angiomyolipoma  
Maryland (Johns Hopkins Hospital Residents) - Angiomyolipoma  
Massachusetts (Berkshire Medical Center) - Angiomyolipoma  
Massachusetts (New England Medical Center Residents) - Angiomyolipoma  
Minnesota (Fairview Southdale Hospital) - Angiomyolipoma (pecoma)  
New Jersey (Overlook Hospital) - Angiomyolipoma  
New York (Long Island Jewish Medical Center) - Angiomyolipoma  
New York (Nassau University Medical Center) - Angiomyolipoma  
New York, New York - Angiomyolipoma  
New York (New York Presbyterian Cornell Residents) - Angiomyolipoma (5)  
North Carolina (Mountain Area Pathology) - Angiomyolipoma (5)  
Ohio (Medical College of Ohio) - Angiomyolipoma  
Oklahoma (Tulsa) - Angiomyolipoma  
Pennsylvania (Allegheny General Hospital) - Angiomyolipoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Angiomyolipoma  
Pennsylvania (Drexel University College of Medicine) - Angiomyolipoma  
Pennsylvania (Lehigh Valley Hospital) - Angiomyolipoma  
Pennsylvania (Mount Nittany Medical Center) - Angiomyolipoma, renal  
Pennsylvania (York Hospital) - Clear cell tumor, adrenal/lung/renal vs. clear cell sarcoma (4); Clear cell neoplasm (1); Clear cell carcinoma (1)  
Puerto Rico (University of Puerto Rico) - Angiomyolipoma  
Rhode Island (RI Hospital Residents) - Epithelioid angiomyolipoma  
Texas (Lubbock) - Angiomyolipoma  
Texas (ProPath Associates) - Angiomyolipoma (2)  
Texas (San Antonio) - Angiomyolipoma  
Texas (Scott & White Memorial Hospital) - Angiomyolipoma  
Wisconsin (Meriter Hospital) - Angiomyolipoma  
Wyoming (Greenbrier Valley Medical Center) - Angiomyolipoma  
Australia (North Queensland Pathology) - Angiomyolipoma  
Australia (Royal Prince Alfred Hospital) - Angiomyolipoma  
Canada (Foothills Medical Center) - Angiomyolipoma  
Hong Kong (Hong Kong Baptist Hospital) - Angiomyolipoma  
Italy (Naples) - Epithelioid angiomyolipoma  
Saudi Arabia - Angiomyolipoma, retroperitoneum

### **Case 7 - Diagnosis:**

Angiomyolipoma, peri-nephric region  
 T-Y4600, M-88600

### **Case 7 - References:**

Yakoo H, Isoda K, Nakazato Y, et al. Retroperitoneal Epithelioid Angiomyolipoma Leading to Fatal Outcome. *Pathol Int* 2000; 50(8):649-654.  
 Piccinini EE, Rosati G, Ugolini G, et al. Giant Retroperitoneal Angiomyolipoma. A Case Report. *Hepatogastroenterology* 1999; 46(25):182-184.  
 Rubinas TC, Flanagan RC and Picken MM. Pathology Quiz Case. Renal Mass in an Otherwise Healthy Man. Epithelioid Angiomyolipoma. *Arch Pathol Lab Med* 2004; 128(1):19-20.

Makhlouf HR, Remotti HE and Ishak KG. Expression of KIT (CD117) in Angiomyolipoma. *Am J Surg Pathol* 2002; 26(4):493-497.

Jimenez RE, Eble JN, Reuter VE, et al. Concurrent Angiomyolipoma and Renal Cell Neoplasia. A Study of 36 Cases. *Mod Pathol* 2001; 14(3):157-163.

Barnard M and Lajoie G. Angiomyolipoma. Immunohistochemical and Ultrastructural Study of 14 Cases. *Ultrastruct Pathol* 2001; 25(1):21-29.

## Case No. 8, Accession No. 29809

March 2004

Alameda (Alameda County Medical Center) - Thymoma

Arcadia (Garfield Medical Center) - Thymoma

Bakersfield - Thymoma

Baldwin Park (Kaiser Permanente) - Spindle cell thymoma (1); Lymphocytic thymoma (2)

Fontana (Kaiser Permanente) - Thymoma

Howard/Fremont - Thymoma, mixed type

Irvine (UC Irvine Residents) - Thymoma

Laguna Beach (South Coast Medical Center) - Thymoma vs. thymic carcinoid

Long Beach - Thymoma (7)

Monterey (Community Hospital of Monterey Peninsula) - Thymoma (2); Thymoma, lymphocyte predominant (2)

Mountain View (El Camino Pathology Group) - Thymoma (2)

Sacramento (UC Davis Medical Center) - Thymoma (spindle cell variant)

San Diego (Naval Medical Center) - Thymoma (WHO, A,B)

San Francisco (San Francisco General Hospital) - Spindle cell thymoma

Santa Barbara (Santa Barbara Cottage Hospital) - Thymoma

Santa Rosa (Santa Rosa Memorial Hospital) - Thymoma (2); Lymphocytic thymoma (1)

Ventura - Thymoma

Alaska (Alaska Native Medical Center) - Thymoma (with mixed features)

Arizona (Maryvale Medical Center) - Malignant thymoma

Colorado (Evergreen) - Thymoma

Colorado (Lutheran Medical Center) - Thymoma

Florida (Baptist Hospital) - Lymphocyte predominant thymoma (1); Thymoma (4)

Florida (Ocala) - Thymoma

Florida (Tallahassee) - Thymoma

Florida (Winter Haven Hospital) - Thymoma

Illinois (Burr Ridge) - Thymoma

Illinois (Evanston Hospital) - Thymoma

Indiana (Ball Memorial Hospital) - Thymoma

Indiana (Howard Community Hospital) - Spindle cell (mixed) thymoma

Kansas (Kansas University Medical Center) - Thymic carcinoid (3)

Maryland (National Naval Medical Center) - Thymoma, mixed

Maryland (Johns Hopkins Hospital Residents) - Thymoma

Massachusetts (Berkshire Medical Center) - Thymoma (spindle cell) (6); Mixed (1)

Massachusetts (New England Medical Center Residents) - Thymoma

Minnesota (Fairview Southdale Hospital) - Thymoma

New Jersey (Overlook Hospital) - Thymoma

New York (Long Island Jewish Medical Center) - Spindle cell thymoma

New York (Nassau University Medical Center) - Carcinoid tumor

New York, New York - Thymoma, WHO type A

New York (New York Presbyterian Cornell Residents) - Thymoma

North Carolina (Mountain Area Pathology) - Thymoma (4)

Ohio (Medical College of Ohio) - Thymoma

Oklahoma (Tulsa) - Thymoma, mixed type AB

Pennsylvania (Allegheny General Hospital) - Thymoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Lymphoma  
Pennsylvania (Drexel University College of Medicine) - Thymoma  
Pennsylvania (Lehigh Valley Hospital) - Lymphoepithelial thymoma  
Pennsylvania (Mount Nittany Medical Center) - Thymoma  
Pennsylvania (York Hospital) - Thymoma (6)  
Puerto Rico (University of Puerto Rico) - Thymoma  
Rhode Island (RI Hospital Residents) - Thymoma  
Texas (Lubbock) - Thymoma  
Texas (ProPath Associates) - Lymphoepithelial thymoma (1); Mixed thymoma (1)  
Texas (San Antonio) - Thymoma  
Texas (Scott & White Memorial Hospital) - Thymoma  
Wisconsin (Meriter Hospital) - Thymoma  
Wyoming (Greenbrier Valley Medical Center) - Thymoma  
Australia (North Queensland Pathology) - Thymoma (mixed type)  
Australia (Royal Prince Alfred Hospital) - Thymoma (mixed, AB type)  
Canada (Foothills Medical Center) - Type AB thymoma  
Hong Kong (Hong Kong Baptist Hospital) - Thymoma, type AB mixed  
Italy (Naples) - Thymoma  
Saudi Arabia - Thymoma, thymus

#### **Case 8 - Diagnosis:**

Thymoma, thymus  
 T-85800, M-85800

#### **Case 8 – References:**

Suster S and Moran CA. Primary Thymic Neoplasms. Spectrum of Differentiation and Histologic Features. *Semin Diagn Pathol* 1999; 16(1):2-17.  
 Chilosi M, Iannucci AM, Pizzolo G, et al. Immunohistochemical Analysis of Thymoma. Evidence from Medullary Origin of Epithelial Cells. *Am J Surg Pathol* 1984; 8(4):309-318.  
 Pan CC, Chen PC, Chou TY, et al. Expression of Calretinin and Other Mesothelioma-Related Markers in Thymic Carcinoma and Thymoma. *Hum Pathol* 2003; 34(11):1155-1162.  
 Inoue M, Starostik P, Zetti A, et al. Correlating Genetic Aberrations with World Health Organization-Defined Histology and Stage Across the Spectrum of Thymomas. *Cancer Res* 2003; 63(13):3708-3715.  
 Zhou R, Zetti A, Strobel P, et al. Thymic Epithelial Tumors Can Develop Along Two Different Pathogenetic Pathways. *Am J Pathol* 2001; 159(5):1853-1860.

#### **Case No. 9, Accession No. 29806**

March 2004

Alameda (Alameda County Medical Center) - Gastrointestinal autonomic nerve tumor  
Arcadia (Garfield Medical Center) - Low grade gastrointestinal stromal tumor vs. schwannoma  
Bakersfield - Gastrointestinal stromal tumor  
Baldwin Park (Kaiser Permanente) - Gastrointestinal stromal tumor (3)  
Fontana (Kaiser Permanente) - Gastrointestinal stromal tumor  
Howard/Fremont - GIST (CD34 negative)  
Irvine (UC Irvine Residents) - Desmoid tumor  
Laguna Beach (South Coast Medical Center) - GIST, malignant  
Long Beach - GIST, malignant (7)  
Monterey (Community Hospital of Monterey Peninsula) - GIST (4)  
Mountain View (El Camino Pathology Group) - GIST (2)  
Sacramento (UC Davis Medical Center) - Gastrointestinal stromal tumor  
San Diego (Naval Medical Center) - Malignant GIST; Gastrointestinal autonomic nerve tumor (1)  
San Francisco (San Francisco General Hospital) - Gastric stromal tumor

Santa Barbara (Santa Barbara Cottage Hospital) - Gastrointestinal stromal tumor, high risk  
Santa Rosa (Santa Rosa Memorial Hospital) - Gastrointestinal stromal tumor  
Ventura - Gastrointestinal stromal tumor  
Alaska (Alaska Native Medical Center) - Gastrointestinal autonomic nerve tumor (GANT)  
Arizona (Maryvale Medical Center) - Gastrointestinal stromal tumor  
Colorado (Evergreen) - GIST  
Colorado (Lutheran Medical Center) - GANT  
Florida (Baptist Hospital) - Stromal tumor, GIST (1); GIST (4)  
Florida (Ocala) - GIST tumor  
Florida (Tallahassee) - Malignant GIST  
Florida (Winter Haven Hospital) - GIST  
Illinois (Burr Ridge) - GIST with neural differentiation  
Illinois (Evanston Hospital) - GANT  
Indiana (Ball Memorial Hospital) - GIST  
Indiana (Howard Community Hospital) - GIST (neural type)  
Kansas (Kansas University Medical Center) - Malignant GIST (3)  
Maryland (National Naval Medical Center) - Gastrointestinal stromal tumor  
Maryland (Johns Hopkins Hospital Residents) - GIST  
Massachusetts (Berkshire Medical Center) - GIST, GANT (1)  
Massachusetts (New England Medical Center Residents) - GIST  
Minnesota (Fairview Southdale Hospital) - GIST  
New Jersey (Overlook Hospital) - GIST, low malignant potential  
New York (Long Island Jewish Medical Center) - GIST  
New York (Nassau University Medical Center) - GANT  
New York, New York - Gastrointestinal stromal tumor (GIST), malignant by virtue of size  
New York (New York Presbyterian Cornell Residents) - GIST  
North Carolina (Mountain Area Pathology) - GIST (4)  
Ohio (Medical College of Ohio) - Gastrointestinal stromal tumor  
Oklahoma (Tulsa) - Gastrointestinal stromal tumor  
Pennsylvania (Allegheny General Hospital) - GIT  
Pennsylvania (Conemaugh Memorial Medical Center) - GIST  
Pennsylvania (Drexel University College of Medicine) - GIST  
Pennsylvania (Lehigh Valley Hospital) - Gastrointestinal stromal tumor  
Pennsylvania (Mount Nittany Medical Center) - Gastrointestinal stromal tumor, small bowel  
Pennsylvania (York Hospital) - GIST consistent with high risk for aggressive behavior (4); GIST, high risk (1)  
Puerto Rico (University of Puerto Rico) - Gastrointestinal stromal tumor  
Rhode Island (RI Hospital Residents) - Gastrointestinal stromal tumor  
Texas (Lubbock) - Gastrointestinal stromal tumor  
Texas (Propath Associates) - Gastrointestinal stromal tumor (GIST) with high malignant potential (1); Gastrointestinal stromal tumor (GIST)  
Texas (San Antonio) - Most compatible with GIST  
Texas (Scott & White Memorial Hospital) - GIST  
Wisconsin (Meriter Hospital) - Fibromatosis  
Wyoming (Greenbrier Valley Medical Center) - Stromal tumor  
Australia (North Queensland Pathology) - GIST  
Australia (Royal Prince Alfred Hospital) - GIST (4) or fibromatosis (3)  
Canada (Foothills Medical Center) - GI stromal tumor  
Hong Kong (Hong Kong Baptist Hospital) - Gastrointestinal stromal tumor  
Italy (Naples) - Gastrointestinal stromal tumor  
Saudi Arabia - Gastrointestinal stromal tumor, malignant bowels



### **Case 9 - Diagnosis:**

Gastrointestinal stromal tumor (GIST), bowel  
T-64000, M-96103

### **Case 9 – References:**

Hasegawa T, Matsuno Y, Shimoda T, et al. Gastrointestinal Stromal Tumor. Consistent CD117 Immunostaining for Diagnosis, and Prognostic Classification Based on Tumor Size and MIB-1 Grade. *Hum Pathol* 2002; 33(6):669-676.  
Capdeville R, Buchdunger E, Zimmermann J, et al. Glivec (ST1571, Imatinib). A Rationally Developed Targeted Anticancer Drug. *Nature Reviews Drug Discovery* 2002; 1(7):493-502.  
Van Oosterom AT, Judson I, Verweij J, et al. Safety and Efficacy of Imatinib (ST1571) in Metastatic Gastrointestinal Stromal Tumours. *A Phase I Study Lancet* 2001; 358:1421-1423.  
Shidham VB, Chivukula M, Gupta D, et al. Immunohistochemical Comparison of Gastrointestinal Stromal Tumor and Solitary Fibrous Tumor. *Arch Pathol Lab Med* 2002; 126(10):1189-1192.  
Berman J and O’Leary TJ. Gastrointestinal Stromal Tumor Workshop. *Hum Pathol* 2001; 32(6):578-582.  
Grady WM. GISTs. The Revolution Continues. *Gastroenterology* 2003; 125 (3):967-969.

### **Case No. 10, Accession No. 29567**

**March 2004**

Alameda (Alameda County Medical Center) - Abdominal fibromatosis  
Arcadia (Garfield Medical Center) - Benign myofibroma  
Bakersfield - Abdominal fibromatosis  
Baldwin Park (Kaiser Permanente) - Intraabdominal fibromatosis (desmoid tumor) (1); Desmoid tumor (intraabdominal fibromatosis (1); Intraabdominal fibromatosis (1)  
Fontana (Kaiser Permanente) - Fibromatosis  
Howard/Fremont - Cicatricial fibromatosis  
Irvine (UC Irvine Residents) - Desmoid tumor  
Laguna Beach (South Coast Medical Center) - Post operative spindle cell nodule (inflammatory myofibroblastic tumor/pseudotumor)  
Long Beach - Fibromatosis (desmoid) (7)  
Monterey (Community Hospital of Monterey Peninsula) - Leiomyosarcoma (2); Desmoid (1); Leiomyosarcoma, low grade, vs. desmoid tumor (1)  
Mountain View (El Camino Pathology Group) - Fibromatosis (2)  
Sacramento (UC Davis Medical Center) - Fibromatosis  
San Diego (Naval Medical Center) - Benign myofibroblastic tumor (5); Abdominal wall fibromatosis (5); Leiomyoma (2)  
San Francisco (San Francisco General Hospital) - Desmoid fibromatosis  
Santa Barbara (Santa Barbara Cottage Hospital) - Fibromatosis  
Santa Rosa (Santa Rosa Memorial Hospital) - Nodular fasciitis (2); Proliferative myositis (1)  
Ventura - Abdominal fibromatosis  
Alaska (Alaska Native Medical Center) - Reactive nodular fibrous pseudotumor  
Arizona (Maryvale Medical Center) - Abdominal fibromatosis (desmoid)  
Colorado (Evergreen) - Desmoid  
Colorado (Lutheran Medical Center) - Fibromatosis  
Florida (Baptist Hospital) - Nodular fasciitis (1); Desmoid tumor (1); Desmoid (3)  
Florida (Ocala) - Desmoid tumor  
Florida (Tallahassee) - Desmoid  
Florida (Winter Haven Hospital) - Desmoid fibromatosis (2)  
Illinois (Burr Ridge) - Benign metastasizing leiomyoma (1)  
Illinois (Evanston Hospital) - Desmoid  
Indiana (Ball Memorial Hospital) - Desmoid tumor  
Indiana (Howard Community Hospital) - Abdominal desmoid tumor  
Kansas (Kansas University Medical Center) - Leiomyosarcoma of abdominal wall (3)  
Maryland (National Naval Medical Center) - Fibromatosis  
Maryland (Johns Hopkins Hospital Residents) - Fibromatosis

Massachusetts (Berkshire Medical Center) - Fibromatosis (3); STUMP (5)  
Massachusetts (New England Medical Center Residents) - Fibromatosis  
Minnesota (Fairview Southdale Hospital) - Cicatricial fibromatosis (desmoid)  
New Jersey (Overlook Hospital) - Abdominal desmoid tumor  
New York (Long Island Jewish Medical Center) - Fibromatosis  
New York (Nassau University Medical Center) - Solitary fibrous tumor  
New York, New York - Fibromatosis  
New York (New York Presbyterian Cornell Residents) - Fibromatosis  
North Carolina (Mountain Area Pathology) - Fibromatosis (4)  
Ohio (Medical College of Ohio) - Abdominal fibromatosis  
Oklahoma (Tulsa) - Desmoid fibromatosis  
Pennsylvania (Allegheny General Hospital) - Abdominal fibromatosis, desmoid  
Pennsylvania (Conemaugh Memorial Medical Center) - Leiomyoma  
Pennsylvania (Drexel University College of Medicine) - Pseudosarcomatous reactive myofibroblastic proliferation  
Pennsylvania (Lehigh Valley Hospital) - Reactive spindle cell nodule  
Pennsylvania (Mount Nittany Medical Center) - Desmoid tumor of abdominal wall (abdominal fibromatosis)  
Pennsylvania (York Hospital) - Fibromatosis, desmoid pattern (3); Desmoid tumor (1); Fibromatosis (2)  
Puerto Rico (University of Puerto Rico) - Desmoid tumor  
Rhode Island (RI Hospital Residents) - Fibromatosis  
Texas (Lubbock) - Leiomyoma  
Texas (Propath Associates) - Abdominal desmoid fibromatosis (1); Leiomyosarcoma, metastatic (1)  
Texas (San Antonio) - Desmoid (fibromatosis)  
Texas (Scott & White Memorial Hospital) - Fibromatosis  
Wisconsin (Meriter Hospital) - Fibromatosis (desmoid)  
Wyoming (Greenbrier Valley Medical Center) - Fibroma  
Australia (North Queensland Pathology) - Myofibroblastoma, differential diagnosis (fibromatosis)  
Australia (Royal Prince Alfred Hospital) - Desmoid  
Canada (Foothills Medical Center) - Fibromatosis  
Hong Kong (Hong Kong Baptist Hospital) - Fibromatosis  
Italy (Naples) - Fibromatosis  
Saudi Arabia - Fibromatosis, abdominal wall

#### **Case 10 - Diagnosis:**

Abdominal fibromatosis (desmoid tumor)  
 T-Y4100, M-76100

#### **Case 10 - References:**

Allen PW. Part I. The Fibromatoses. A Clinicopathologic Classification Based on 140 Cases. *Am J Surg Pathol* 1977; 255-270.  
 Burke AP, Soben LH, Shekika KM, et al. Intra-Abdominal Fibromatosis. A Pathologic Analysis of 130 Tumor with Comparison of Clinical Subgroups. *Am J Surg Pathol* 1990; 14(4):335-341.  
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