



CALIFORNIA  
TUMOR TISSUE REGISTRY

*GENERAL PATHOLOGY*

Minutes – Subscription A

September, 2003



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

Stem Cell Research: Elephants in the Room. Theise ND. *Mayo Clin Proc* 2003;78(8):1004-1009.  
Tumor-Busting Viruses. Nettelbeck DM and Curiel DT. *Scientific American* 2003; 289(4):68-75.  
Bioinformatics Programmed for Success. Buckingham S. *Nature* 2003; 425(6954):209-215.  
Cardiovascular Disease. Nabel, EG. *N Engl J Med* 2003; 349(1):60-72.  
Welcome to the Genomic Era. Guttmacher AE and Collins FS. *N Eng J Med* 2003; 349(10):996-998.  
Genomics as a Probe for Disease Biology. Burke W. *N Eng J Med* 2003; 349(10):969-974.

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## **FILE DIAGNOSES**

**CTTR Subscription A**

**September 2003**

**Case 1:**

Diffuse high grade large cell lymphoma, small bowel  
T-64000, M-95903

**Case 2:**

Poorly differentiated (insular) carcinoma, thyroid  
T-96200, M-80103

**Case 3:**

Thymoma  
T-Y2300, M-85800

**Case 4:**

Squamous cell carcinoma, lung  
T-28000, M-80703

**Case 5:**

Mucinous bronchioloalveolar carcinoma, lung  
T-28000, M-82503

**Case 6:**

Extraskeletal myxoid chondrosarcoma, knee  
T-Y9200, M-92203

**Case 7:**

Chondroma, falx cerebri  
T-X1140, M-92200

**Case 8:**

Seminoma, testis  
T-78000, M-90613

**Case 9:**

Myofibroblastoma, breast  
T-04000, M-95800

**Case 10:**

Chordoid meningioma, frontal fossa  
T-Y0111, M-95300

Alameda (Alameda County Medical Center) - Large cell lymphoma  
Bakersfield - Metastatic seminoma  
Baldwin Park (Kaiser Permanente) - Lymphoma (3)  
Fontana (Kaiser Permanente) - Large cell lymphoma  
Hayward/Fremont - Malignant lymphoma, diffuse large (B) cell type  
Laguna Beach (South Coast Medical Center) - High grade germ cell tumor (embryonal carcinoma, solid pattern) versus other poorly differentiated neoplasm (lymphoma)  
Loma Linda (Loma Linda University Residents) - Metastatic anaplastic carcinoma, favor seminoma  
Long Beach - Diffuse large cell lymphoma (8)  
Mountain View (El Camino Pathology Group) - Diffuse large cell lymphoma  
Orange (Orange County Pathology Medical Group) - Non-Hodgkins lymphoma  
Orange (UCI Medical Center Residents) - Diffuse large cell lymphoma  
Sacramento (UC Davis Medical Center) - Large cell lymphoma  
San Diego (Naval Medical Center) - Large cell lymphoma  
San Francisco (San Francisco General Hospital) - Lymphoma, anaplastic  
Santa Barbara (Cottage Hospital) - Large cell lymphoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Diffuse large cell malignant lymphoma (3)  
Ventura - Seminoma  
Alaska (Alaska Native Medical Center) - Embryonal carcinoma (2); High grade large B-cell lymphoma (1)  
Arizona (Maryvale Medical Center) - Seminoma, metastatic from left testicle  
Arizona (St. Josephs Hospital Residents) - Large cell non-Hodgkin's lymphoma/anaplastic large cell lymphoma  
Florida (Baptist Hospital) - Choriocarcinoma (1); Metastatic anaplastic seminoma (rule out melanoma) (1)  
Florida (Munroe Regional Medical Center) - Large cell lymphoma  
Florida (Pathology Associates) - Large cell lymphoma  
Florida (Winter Haven Hospital) - Large cell lymphoma  
Illinois (Northwestern Memorial Hospital) - Embryonal carcinoma  
Louisiana (Louisiana State University Medical Center) - Malignant lymphoma, large cell  
Maryland (National Naval Medical Center) - Malignant lymphoma (11)  
Massachusetts (Berkshire Medical Center) - Seminoma (8); vs. Lymphoma (1)  
Massachusetts (New England Medical Center Residents) - Diffuse large cell lymphoma  
Michigan (Oakwood Hospital) - B-cell non-Hodgkin's lymphoma, diffuse vs. follicular large  
Michigan (St. Joseph Mercy Hospital) - Follicular lymphoma, grade III  
Minnesota (Fairview Southdale Hospital) - Large cell lymphoma  
Mississippi (University of Mississippi Medical Center) - Malignant lymphoma  
Nebraska (Creighton University School of Medicine Residents) - Large cell lymphoma  
Nevada (Western Pathology Associates) - Large cell lymphoma  
New Jersey (Overlook Hospital) - Large cell lymphoma, diffuse  
New York (Long Island Jewish Medical Center) - Diffuse large cell lymphoma  
New York (Nassau University Medical Center) - Diffuse large cell lymphoma  
New York (New York Presbyterian Hospital Residents) - Diffuse large cell lymphoma  
New York (Stony Brook University Hospital Residents) - Diffuse large cell lymphoma  
North Carolina (Duke University Medical Center Residents) - Seminoma  
Ohio (Medical College of Ohio Residents) - Non-Hodgkin's lymphoma, large cell type  
Oklahoma (Tulsa) - Malignant large cell lymphoma  
Oklahoma (University of Oklahoma HSC Residents) - Malignant lymphoma  
Pennsylvania (Allegheny General Hospital) - Large cell lymphoma  
Pennsylvania (Centre Community Hospital) - Diffuse large B-cell lymphoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Lymphoma  
Pennsylvania (Drexel University College of Medicine) - Anaplastic large cell lymphoma  
Pennsylvania (Lehigh Valley Hospital) - Large cell lymphoma vs. seminoma  
Pennsylvania (York Hospital) - Malignant neoplasm: Diffuse B-cell lymphoma vs. seminoma

Puerto Rico (University of Puerto Rico) - Germ cell tumor, anaplastic seminoma/embryonal carcinoma  
Rhode Island (RI Hospital Residents) - Diffuse large cell lymphoma  
Texas (Lackland AFB) - Metastatic germ cell tumor, seminoma (less likely lymphoma)  
Texas (Propath Associates) - Large cell lymphoma (2)  
Texas (Scott & White Memorial Hospital) - Large cell lymphoma  
Utah (University of Utah Residents) - Mixed germ cell tumor with seminomatous embryonal component  
West Virginia (Greenbrier Valley Medical Center) - Seminoma, spermatocytic, metastatic  
Australia (North Queensland Pathology Group) - Large B-cell lymphoma  
Australia (Royal Prince Alfred Hospital) - Diffuse large cell malignant lymphoma  
Canada (Foothills Medical Center) - Diffuse large cell lymphoma  
Hong Kong (Hong Kong Baptist Hospital) - Diffuse large cell lymphoma  
Jamaica (The University of the West Indies) - Diffuse large cell non-Hodgkin's lymphoma  
Japan (Yamanashi Medical University) - Malignant lymphoma (3); Seminoma (1)  
Qatar (Hamad Medical Corporation) - Disseminated malignant germ cell tumor (4); Seminoma (1)

#### **Case 1 - Diagnosis:**

Diffuse high grade large cell lymphoma, small bowel  
T-64000, M-95903

Hematopathology consultation: Milton Drachenberg, M.D.: "Diffuse high grade large cell lymphoma."

#### **Case 1 – References:**

Al-Bahrani Zr, Al-Mondhry H, Bakir F, Al-Saleem T. Clinical and Pathologic Subtypes of Primary intestinal Lymphoma. Experience with 132 Patients Over a 14-Year Period. *Cancer* 1983; 52(9):1666-1672.  
Grody WW, Magidson JG, Weiss LM, et al. Gastrointestinal Lymphomas. Immunohistochemical Studies on the Cell of Origin. *Am J Surg Pathol* 1984; 9(5):328-337.

### **Case No. 2, Accession No. 29688**

**September 2003**

Alameda (Alameda County Medical Center) - Insular carcinoma  
Bakersfield - Hurthle cell carcinoma  
Baldwin Park (Kaiser Permanente) - Poorly differentiated (insular) carcinoma (2); Carcinoid tumor (1)  
Fontana (Kaiser Permanente) - Poorly differentiated carcinoma  
Hayward/Fremont - Carcinoma with thymus-like elements (Castle tumor)  
Laguna Beach (South Coast Medical Center) - Medullary carcinoma  
Loma Linda (Loma Linda University Residents) - Neuroendocrine tumor, Calcitonin poor medullary carcinoma  
Long Beach - Neuroendocrine carcinoma (8)  
Mountain View (El Camino Pathology Group) - Medullary carcinoma  
Orange (Orange County Pathology Medical Group) - Poorly differentiated (insular) carcinoma  
Orange (UCI Medical Center Residents) - Poorly differentiated insular carcinoma  
Sacramento (UC Davis Medical Center) - Insular carcinoma (poorly differentiated carcinoma)  
San Diego (Naval Medical Center) - Insular carcinoma (13/19), 2<sup>nd</sup> choice, medullary thyroid carcinoma (6/19)  
San Francisco (San Francisco General Hospital) - Follicular carcinoma  
Santa Barbara (Cottage Hospital) - Medullary carcinoma consistent with small cell features  
Santa Rosa (Santa Rosa Memorial Hospital) - Follicular carcinoma with oncocytic features (2); Poorly differentiated carcinoma with oncocytic features (1)  
Ventura - Follicular carcinoma  
Alaska (Alaska Native Medical Center) - Poorly differentiated (insular) carcinoma  
Arizona (Maryvale Medical Center) - Insular carcinoma (poorly differentiated thyroid carcinoma)  
Arizona (St. Josephs Hospital Residents) - Insular carcinoma of thyroid  
Florida (Baptist Hospital) - Hurthle cell carcinoma (2)  
Florida (Munroe Regional Medical Center) - Insular carcinoma

Florida (Pathology Associates) - Medullary carcinoma (do chromogranin), insular thyroid carcinoma  
Florida (Winter Haven Hospital) - Carcinoid tumor  
Illinois (Northwestern Memorial Hospital) - Poorly differentiated carcinoma, insular type (thyroid)  
Louisiana (Louisiana State University Medical Center) - Poorly differentiated follicular carcinoma, thyroid  
Maryland (National Naval Medical Center) - Insular/poorly differentiated carcinoma (11)  
Massachusetts (Berkshire Medical Center) - Insular carcinoma (9)  
Massachusetts (New England Medical Center Residents) - Poorly differentiated (insular) carcinoma of thyroid  
Michigan (Oakwood Hospital) - Insular carcinoma  
Michigan (St. Joseph Mercy Hospital) - High grade carcinoma, uncertain type  
Minnesota (Fairview Southdale Hospital) - Insular carcinoma  
Mississippi (University of Mississippi Medical Center) - Poorly differentiated carcinoma (insular carcinoma)  
Nebraska (Creighton University School of Medicine Residents) - Follicular carcinoma, hurthle cell type  
Nevada (Western Pathology Associates) - Insular carcinoma  
New Jersey (Overlook Hospital) - Insular carcinoma  
New York (Long Island Jewish Medical Center) - Insular carcinoma  
New York (Nassau University Medical Center) - Undifferentiated carcinoma of thyroid  
New York (New York Presbyterian Hospital Residents) - Insular carcinoma  
New York (Stony Brook University Hospital Residents) - Insular carcinoma  
North Carolina (Duke University Medical Center Residents) - Insular (poorly differentiated) carcinoma of the thyroid  
Ohio (Medical College of Ohio Residents) - Poorly differentiated carcinoma with neuroendocrine features  
Oklahoma (Tulsa) - Poorly differentiated carcinoma, insular type  
Oklahoma (University of Oklahoma HSC Residents) - Medullary carcinoma, small cell variant  
Pennsylvania (Allegheny General Hospital) - Medullary carcinoma  
Pennsylvania (Centre Community Hospital) - Poorly differentiated carcinoma (insular carcinoma) of the thyroid gland  
Pennsylvania (Conemaugh Memorial Medical Center) - Follicular carcinoma  
Pennsylvania (Drexel University College of Medicine) - Insular carcinoma (poorly differentiated carcinoma of thyroid)  
Pennsylvania (Lehigh Valley Hospital) - Medullary carcinoma  
Pennsylvania (York Hospital) - Insular carcinoma (3); Poorly differentiated (insular) carcinoma (3); Thymoma (2)  
Puerto Rico (University of Puerto Rico) - Insular carcinoma  
Rhode Island (RI Hospital Residents) - Poorly differentiated thyroid carcinoma (insular carcinoma)  
Texas (Lackland AFB) - Poorly differentiated (insular) carcinoma of the thyroid  
Texas (Propath Associates) - Malignant carcinoid tumor (1); Malignant carcinoid tumor with dedifferential area  
Texas (Scott & White Memorial Hospital) - Poorly differentiated carcinoma (favor neuroendocrine)  
Utah (University of Utah Residents) - Insular carcinoma  
West Virginia (Greenbrier Valley Medical Center) - Papillary carcinoma, follicular variant  
Australia (North Queensland Pathology Group) - Insular carcinoma  
Australia (Royal Prince Alfred Hospital) - Poorly differentiated carcinoma ?, medullary? insular  
Canada (Foothills Medical Center) - Poorly differentiated (insular) thyroid carcinoma  
Hong Kong (Hong Kong Baptist Hospital) - Insular carcinoma  
Jamaica (The University of the West Indies) - Hyalinizing trabecular adenoma  
Japan (Yamanashi Medical University) - Follicular carcinoma (insular carcinoma) (1); Medullary carcinoma (3)  
Qatar (Hamad Medical Corporation) - Insular carcinoma of the thyroid

## **Case 2 - Diagnosis:**

Poorly differentiated (insular) carcinoma, thyroid  
 T-96200, M-80103

## **Case 2 - References:**

Papotti M, Volante M, Komminoth P, et al. Thyroid Carcinomas with Mixed Follicular and C-Cell Differentiation Patterns. *Semin Diagn Pathol* 2000; 17(2):109-119.  
 Decaussin M, Bernard MH, Adeleine P, et al. Thyroid Carcinomas with Distant Metastases. A Review of 111 Cases with Emphasis on the Prognostic Significance of an Insular Component. *Am J Surg Pathol* 2002; 26(8):1007-1015.  
 Nguyen GK and Akin MR. Cytopathology of Insular Carcinoma of the Thyroid. *Diagn Cytopathol* 2001; 25(5):325-330.

Rodriguez JM, Parrilla P, Moreno A, et al. Insular Carcinoma. An Infrequent Subtype of Thyroid Cancer. *J Am Coll Surg* 1998; 187(5):503-508.

**Case No. 3, Accession No. 29358**

**September 2003**

Alameda (Alameda County Medical Center) - Thymoma  
Bakersfield - Thymoma  
Baldwin Park (Kaiser Permanente) - Spindle cell thymoma (3)  
Fontana (Kaiser Permanente) - Thymoma  
Hayward/Fremont - Mixed cortical and medullary thymoma (type AB)  
Laguna Beach (South Coast Medical Center) - Thymoma  
Loma Linda (Loma Linda University Residents) - Type B, thymoma  
Long Beach - Thymoma (8)  
Mountain View (El Camino Pathology Group) - Thymoma  
Orange (Orange County Pathology Medical Group) - Thymoma  
Orange (UCI Medical Center Residents) - Thymoma  
Sacramento (UC Davis Medical Center) - Thymoma, type B2  
San Diego (Naval Medical Center) - Thymoma (13/19); Second choice, invasive thymoma (6/19)  
San Francisco (San Francisco General Hospital) - Thymoma  
Santa Barbara (Cottage Hospital) - Thymoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Thymoma (3)  
Ventura - Thymoma  
Alaska (Alaska Native Medical Center) - Thymic carcinoma (lymphoepithelioma-like)  
Arizona (Maryvale Medical Center) - Thymoma, minimally invasive  
Arizona (St. Josephs Hospital Residents) - Non-invasive thymoma  
Florida (Baptist Hospital) - Spindle cell thymoma (1); Thymoma, spindle cell type (1)  
Florida (Munroe Regional Medical Center) - Thymoma  
Florida (Pathology Associates) - Thymoma  
Florida (Winter Haven Hospital) - Thymoma  
Illinois (Northwestern Memorial Hospital) - Thymoma, B-type (mixed)  
Louisiana (Louisiana State University Medical Center) - Thymoma  
Maryland (National Naval Medical Center) - Thymoma, minimally invasive (11)  
Massachusetts (Berkshire Medical Center) - Thymoma (9)  
Massachusetts (New England Medical Center Residents) - Mixed thymoma  
Michigan (Oakwood Hospital) - Thymoma, WHO B2  
Michigan (St. Joseph Mercy Hospital) - Thymoma  
Minnesota (Fairview Southdale Hospital) - Thymoma  
Mississippi (University of Mississippi Medical Center) - Thymoma  
Nebraska (Creighton University School of Medicine Residents) - Thymoma  
Nevada (Western Pathology Associates) - Thymoma  
New Jersey (Overlook Hospital) - Thymoma  
New York (Long Island Jewish Medical Center) - Spindle type/medullary thymoma  
New York (Nassau University Medical Center) - Thymoma, medullary  
New York (New York Presbyterian Hospital Residents) - Thymoma, predominantly mixed  
New York (Stony Brook University Hospital Residents) - Thymoma  
North Carolina (Duke University Medical Center Residents) - Thymoma  
Ohio (Medical College of Ohio Residents) - Thymoma, mixed lymphocytic and epithelial type  
Oklahoma (Tulsa) - Thymoma, type A, medullary  
Oklahoma (University of Oklahoma HSC Residents) - Thymoma  
Pennsylvania (Allegheny General Hospital) - Thymoma  
Pennsylvania (Centre Community Hospital) - Thymic carcinoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Thymoma

Pennsylvania (Drexel University College of Medicine) - Invasive (malignant) thymoma  
Pennsylvania (Lehigh Valley Hospital) - Thymoma  
Pennsylvania (York Hospital) - Thymoma (8)  
Puerto Rico (University of Puerto Rico) - Benign thymoma  
Rhode Island (RI Hospital Residents) - Type A (medullary thymoma (WHO classification)  
Texas (Lackland AFB) - Thymoma, encapsulated (type B1)  
Texas (ProPath Associates) - Thymoma, mixed type (2)  
Texas (Scott & White Memorial Hospital) - Thymoma  
Utah (University of Utah Residents) - Mixed pattern thymoma  
West Virginia (Greenbrier Valley Medical Center) - Thymoma  
Australia (North Queensland Pathology Group) - Lymphoepithelial thymoma  
Australia (Royal Prince Alfred Hospital) - Thymoma (type AB)  
Canada (Foothills Medical Center) - Type AB thymoma  
Hong Kong (Hong Kong Baptist Hospital) - Malignant thymoma  
Jamaica (The University of the West Indies) - Thymoma, mixed type  
Japan (Yamanashi Medical University) - Thymoma (4)  
Qatar (Hamad Medical Corporation) - Thymoma

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

Thymoma

T-Y2300, M-85800

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

Tomiyama N, Johkoh T, Mihara N, et al. Using the World Health Organization Classification of Thymic Epithelial Neoplasms to Describe CT Findings. *AJR Am Roentgenol* 2002; 179(4):881-886.  
 Okumura M, Ohta M, Tateyama H, et al. The World Health Organization Histologic Classification System Reflects the Oncologic Behavior of Thymoma. A Clinical Study of 273 Patients. *Cancer* 2002; 94(3):624-632.  
 Kuo TT. Classification of Thymic Epithelial Neoplasms. A Controversial Issue Coming to an End? *J Cell Mol Med* 2001; 5(4):442-448.  
 Mehran R, Ghosh R, Maziak D, et al. Surgical Treatment of Thymoma. *Can J Surg* 2002; 45(1):25-30.  
 Chen G, Marx A, Wen-Hu C, et al. New WHO Histologic Classification Predicts Prognosis of Thymic Epithelial Tumors. A Clinicopathologic Study of 200 Thymoma Cases from China. *Cancer* 2002; 95(2):420-429.

## **Case No. 4, Accession No. 29392**

**September 2003**

Alameda (Alameda County Medical Center) - Squamous cell carcinoma  
Bakersfield - Poorly differentiated squamous cell carcinoma  
Baldwin Park (Kaiser Permanente) - Poorly differentiated squamous cell carcinoma (1); Squamous carcinoma (2)  
Fontana (Kaiser Permanente) - Squamous cell carcinoma  
Hayward/Fremont - Squamous carcinoma, lung  
Laguna Beach (South Coast Medical Center) - Squamous cell carcinoma (basaloid)  
Loma Linda (Loma Linda University Residents) - Poorly differentiated bronchogenic carcinoma, large non-keratinizing squamous cell carcinoma  
Long Beach - Squamous cell carcinoma (8)  
Mountain View (El Camino Pathology Group) - Squamous cell carcinoma  
Orange (Orange County Pathology Medical Group) - Squamous cell carcinoma  
Orange (UCI Medical Center Residents) - Poorly differentiated squamous cell carcinoma, non-keratinizing  
Sacramento (UC Davis Medical Center) - Squamous cell carcinoma (basaloid type)  
San Diego (Naval Medical Center) - Large cell carcinoma with neuroendocrine morphology  
San Francisco (San Francisco General Hospital) - Squamous cell carcinoma with metaplastic cartilage  
Santa Barbara (Cottage Hospital) - Pleomorphic squamous cell carcinoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Squamous cell carcinoma (2); Poorly differentiated squamous cell carcinoma (1)  
Ventura - Squamous cell carcinoma

Alaska (Alaska Native Medical Center) - Poorly differentiated large cell carcinoma (2); Large cell neuroendocrine carcinoma (1)  
Arizona (Maryvale Medical Center) - Large cell carcinoma  
Arizona (St. Josephs Hospital Residents) - Basaloid carcinoma of lung  
Florida (Baptist Hospital) - Squamous carcinoma with some glandular differentiation (1); Adenosquamous carcinoma (1)  
Florida (Munroe Regional Medical Center) - Poorly differentiated adenocarcinoma  
Florida (Pathology Associates) - Squamous carcinoma  
Florida (Winter Haven Hospital) - Bronchioalveolar adenocarcinoma  
Illinois (Northwestern Memorial Hospital) - Squamous cell carcinoma  
Louisiana (Louisiana State University Medical Center) - Poorly differentiated squamous cell carcinoma  
Maryland (National Naval Medical Center) - Basaloid squamous cell carcinoma (6); Poorly differentiated carcinoma (5)  
Massachusetts (Berkshire Medical Center) - Squamous cell carcinoma (9)  
Massachusetts (New England Medical Center Residents) - High grade squamous cell carcinoma of the lung (squamous cell carcinoma)  
Michigan (Oakwood Hospital) - Large cell carcinoma, possibly neuroendocrine  
Michigan (St. Joseph Mercy Hospital) - Squamous cell carcinoma  
Minnesota (Fairview Southdale Hospital) - Poorly differentiated non-small cell carcinoma (basosquamous/basaloid squamous)  
Mississippi (University of Mississippi Medical Center) - Squamous cell carcinoma  
Nebraska (Creighton University School of Medicine Residents) - Squamous cell carcinoma  
Nevada (Western Pathology Associates) - Poorly differentiated squamous cell carcinoma  
New Jersey (Overlook Hospital) - Poorly differentiated squamous cell carcinoma  
New York (Long Island Jewish Medical Center) - Basaloid squamous cell carcinoma  
New York (Nassau University Medical Center) - Squamous cell carcinoma  
New York (New York Presbyterian Hospital Residents) - Non-small cell carcinoma, favor squamous cell carcinoma  
New York (Stony Brook University Hospital Residents) - Salivary duct carcinoma  
North Carolina (Duke University Medical Center Residents) - Squamous cell carcinoma  
Ohio (Medical College of Ohio Residents) - Poorly differentiated non-small cell carcinoma with transitional cell features  
Oklahoma (Tulsa) - Poorly differentiated squamous carcinoma  
Oklahoma (University of Oklahoma HSC Residents) - Poorly differentiated squamous cell carcinoma  
Pennsylvania (Allegheny General Hospital) - Poorly differentiated squamous cell carcinoma  
Pennsylvania (Centre Community Hospital) - Large cell carcinoma of the lung  
Pennsylvania (Conemaugh Memorial Medical Center) - Squamous cell carcinoma  
Pennsylvania (Drexel University College of Medicine) - Squamous cell carcinoma  
Pennsylvania (Lehigh Valley Hospital) - Squamous cell carcinoma  
Pennsylvania (York Hospital) - Basaloid squamous cell carcinoma (8)  
Puerto Rico (University of Puerto Rico) - Large cell carcinoma/non-keratinizing squamous cell carcinoma, moderately differentiated  
Rhode Island (RI Hospital Residents) - Basaloid carcinoma  
Texas (Lackland AFB) - Poorly differentiated carcinoma (large cell neuroendocrine carcinoma vs. non-keratinizing squamous cell carcinoma)  
Texas (Propath Associates) - Epidermoid carcinoma (1); Poorly differentiated epidermoid type carcinoma (1)  
Texas (Scott & White Memorial Hospital) - Squamous cell carcinoma  
Utah (University of Utah Residents) - Squamous cell carcinoma  
West Virginia (Greenbrier Valley Medical Center) - Large cell neuroendocrine carcinoma  
Australia (North Queensland Pathology Group) - Atypical carcinoid  
Australia (Royal Prince Alfred Hospital) - Squamous cell carcinoma  
Canada (Foothills Medical Center) - Poorly differentiated squamous carcinoma of lung  
Hong Kong (Hong Kong Baptist Hospital) - Moderately differentiated non-keratinizing squamous cell carcinoma  
Jamaica (The University of the West Indies) - Squamous cell carcinoma, moderately differentiated  
Japan (Yamanashi Medical University) - Squamous cell carcinoma (4)  
Qatar (Hamad Medical Corporation) - Moderately differentiated squamous carcinoma



#### **Case 4 - Diagnosis:**

Squamous cell carcinoma, lung  
T-28000, M-80703

#### **Case 4 - References:**

- Kreuzer M, Heinrich J, Kreienbrock L, et al. Risk Factors for Lung Cancer Among Nonsmoking Women. *Int J Cancer* 2002; 100(6):706-713.
- Mountain CF, Lukeman JM, Hammer SP, et al. Lung Cancer Classification. The Relationship of Disease Extent and Cell Type to Survival in a Clinical Trials Population. *J Surg Oncol* 1987; 35(3):147-156.
- Devesa SS, Shaw GL, Blot WJ. Changing Patterns of Lung Cancer Incidence by Histologic Type. *Cancer Epidemiol Biomarkers Prev* 1991; 1(1):29-34.
- Ogino S, Franks TJ, Yong M, et al. Extensive Squamous Metaplasia with Cytologic Atypia in Diffuse Alveolar Damage Mimicking Squamous Cell Carcinoma. A Report of 2 Cases. *Hum Pathol* 2002; 33(10):1052-1054.
- Wang BY, Gil J, Kaufman D, et al. P63 in Pulmonary Epithelium, Pulmonary Squamous Neoplasms, and Other Pulmonary Tumors. *Hum Pathol* 2002; 33(9):921-926.

#### **Case No. 5, Accession No. 29053**

**September 2003**

Alameda (Alameda County Medical Center) - Mucinous bronchioloalveolar carcinoma

Bakersfield - Bronchioloalveolar carcinoma, mucinous type

Baldwin Park (Kaiser Permanente) - Mucinous type bronchioloalveolar carcinoma (3)

Fontana (Kaiser Permanente) - Bronchoalveolar carcinoma

Hayward/Fremont - Mucinous adenocarcinoma with bronchoalveolar growth pattern

Laguna Beach (South Coast Medical Center) - Bronchioloalveolar carcinoma

Loma Linda (Loma Linda University Residents) - Mucinous (colloid) carcinoma with bronchoalveolar features

Long Beach - Bronchioloalveolar cell carcinoma (8)

Mountain View (El Camino Pathology Group) - Bronchoalveolar carcinoma, mucinous type

Orange (Orange County Pathology Medical Group) - Adenocarcinoma, bronchoalveolar

Orange (UCI Medical Center Residents) - Bronchioloalveolar carcinoma

Sacramento (UC Davis Medical Center) - Bronchioloalveolar carcinoma, mucinous type

San Diego (Naval Medical Center) - Mucin producing adenocarcinoma

San Francisco (San Francisco General Hospital) - Mucinous bronchoalveolar adenocarcinoma

Santa Barbara (Cottage Hospital) - Bronchioloalveolar carcinoma, mucinous type

Santa Rosa (Santa Rosa Memorial Hospital) - Bronchoalveolar carcinoma (2); Adenocarcinoma, mucin producing

Ventura - Mucinous bronchioloalveolar carcinoma

Alaska (Alaska Native Medical Center) - Well-differentiated invasive adenocarcinoma (papillary with goblet cells and abundant mucin) bronchioalveolar features?

Arizona (Maryvale Medical Center) - Bronchioloalveolar carcinoma, mucinous type

Arizona (St. Josephs Hospital Residents) - Mucinous/colloid carcinoma of lung

Florida (Baptist Hospital) - Mucinous bronchoalveolar carcinoma (2)

Florida (Munroe Regional Medical Center) - Well-differentiated adenocarcinoma

Florida (Pathology Associates) - Mucinous bronchoalveolar tumor, mucinous carcinoma

Florida (Winter Haven Hospital) - Bronchoalveolar adenocarcinoma

Illinois (Northwestern Memorial Hospital) - Bronchoalveolar carcinoma, secondary-type

Louisiana (Louisiana State University Medical Center) - Adenocarcinoma with bronchoalveolar features

Maryland (National Naval Medical Center) - Bronchioloalveolar carcinoma, mucinous (6); Mucinous cystadenocarcinoma (5)

Massachusetts (Berkshire Medical Center) - Bronchioloalveolar carcinoma, mucinous type (9)

Massachusetts (New England Medical Center Residents) - Bronchoalveolar carcinoma, mucinous type

Michigan (Oakwood Hospital) - Adenocarcinoma, bronchioloalveolar, mucinous type

Michigan (St. Joseph Mercy Hospital) - Mucinous bronchioloalveolar carcinoma

Minnesota (Fairview Southdale Hospital) - Bronchoalveolar carcinoma, mucinous type

Mississippi (University of Mississippi Medical Center) - Bronchoalveolar carcinoma, mucinous type

Nebraska (Creighton University School of Medicine Residents) - Bronchoalveolar carcinoma, mucinous type

Nevada (Western Pathology Associates) - Mucinous bronchioloalveolar carcinoma

New Jersey (Overlook Hospital) - Alveolar bronchiolar cell carcinoma, mucinous type  
New York (Long Island Jewish Medical Center) - Bronchioloalveolar carcinoma  
New York (Nassau University Medical Center) - Bronchoalveolar carcinoma, mucinous type  
New York (New York Presbyterian Hospital Residents) - Mucinous adenocarcinoma  
New York (Stony Brook University Hospital Residents) - Bronchioloalveolar carcinoma  
North Carolina (Duke University Medical Center Residents) - Bronchioloalveolar carcinoma, mucinous type  
Ohio (Medical College of Ohio Residents) - Bronchioloalveolar carcinoma, mucinous type  
Oklahoma (Tulsa) - Bronchioloalveolar carcinoma, mucinous type  
Oklahoma (University of Oklahoma HSC Residents) - Mucinous carcinoma (so-called colloid carcinoma)  
Pennsylvania (Allegheny General Hospital) - Bronchoalveolar carcinoma, mucinous type  
Pennsylvania (Centre Community Hospital) - Mucinous adenocarcinoma (related to bronchioloalveolar carcinoma, of the lung)  
Pennsylvania (Conemaugh Memorial Medical Center) - Papillary carcinoma/bronchioloalveolar carcinoma  
Pennsylvania (Drexel University College of Medicine) - Papillary adenocarcinoma  
Pennsylvania (Lehigh Valley Hospital) - Bronchoalveolar carcinoma  
Pennsylvania (York Hospital) - Bronchioloalveolar carcinoma vs. metastatic adenocarcinoma  
Puerto Rico (University of Puerto Rico) - Adenocarcinoma, bronchioloalveolar type  
Rhode Island (RI Hospital Residents) - Mucinous bronchioloalveolar carcinoma  
Texas (Lackland AFB) - Bronchioloalveolar carcinoma  
Texas (Propath Associates) - Bronchoalveolar carcinoma, mucoid type (2)  
Texas (Scott & White Memorial Hospital) - Mucinous bronchioloalveolar carcinoma  
Utah (University of Utah Residents) - Mucinous papillary adenocarcinoma  
West Virginia (Greenbrier Valley Medical Center) - Papillary adenocarcinoma  
Australia (North Queensland Pathology Group) - Mucin producing bronchoalveolar carcinoma  
Australia (Royal Prince Alfred Hospital) - Mucinous adenocarcinoma (bronchoalveolar pattern)  
Canada (Foothills Medical Center) - Adenocarcinoma, mixed type, with predominant bronchioloalveolar pattern (mucinous type)  
Hong Kong (Hong Kong Baptist Hospital) - Bronchioloalveolar carcinoma, goblet cell type  
Jamaica (The University of the West Indies) - Bronchoalveolar carcinoma, mucin producing type  
Japan (Yamanashi Medical University) - Adenocarcinoma papillary (1); Bronchoalveolar (2); Muco-nodular (1)  
Qatar (Hamad Medical Corporation) - Bronchioloalveolar carcinoma

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

Mucinous bronchioloalveolar carcinoma, lung  
 T-28000, M-82503

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

Clayton F. Bronchoalveolar Carcinomas. Cell Types, Patterns of Growth and Prognostic Correlates. *Cancer* 1986; 57(8):1555-1560.  
 Dumont P, Gasser B, Rouge C, et al. Bronchoalveolar Carcinoma. Histopathologic Study of Evolution in a Series of 105 Surgically Treated Patients. *Chest* 1998; 113(2):391-395.  
 Lau SK, Desrochers MJ, Luthringer DJ. Expression of Thyroid Transcription Factor-1, Cytokeratin 7 and Cytokeratin 20 in Bronchioloalveolar Carcinomas. An Immunohistochemical Evaluation of 67 Cases. *Mod Pathol* 2002; 15(5):538-542.  
 Clayton F. The Spectrum and Significance of Bronchioloalveolar Carcinomas. *Pathol Annu* 1988; 23 Pt 2:361-394.  
 Goldstein NS, Thomas M. Mucinous and Nonmucinous Bronchioloalveolar Adenocarcinomas Have Distinct Staining Patterns with Thyroid Transcription Factor and Cytokeratin 20 Antibodies. *Am J Clin Pathol* 2001; 116(3):319-325.

#### **Case No. 6, Accession No. 29448**

**September 2003**

Alameda (Alameda County Medical Center) - Myxoid chondrosarcoma  
Baldwin Park (Kaiser Permanente) - Cannot interpret (2); Chondrosarcoma (1)  
Fontana (Kaiser Permanente) - Chondrosarcoma  
Hayward/Fremont - Chondrosarcoma arising in proliferative synovitis  
Laguna Beach (South Coast Medical Center) - Extraskelatal chondrosarcoma  
Loma Linda (Loma Linda University Residents) - Myxoid chondrosarcoma, grade II

Long Beach - Extraskeletal myxoid chondrosarcoma (8)  
Mountain View (El Camino Pathology Group) - Extraskeletal myxoid chondrosarcoma  
Orange (UCI Medical Center Residents) - Extraskeletal myxoid chondrosarcoma  
Sacramento (UC Davis Medical Center) - Hemangioendothelioma vs. pigmented villonodular synovitis  
San Diego (Naval Medical Center) - High grade chondrosarcoma  
San Francisco (San Francisco General Hospital) - Myxoid chondrosarcoma  
Santa Barbara (Cottage Hospital) - Myxofibrosarcoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Chondrosarcoma (2); Myxoid chondrosarcoma (1)  
Ventura - Chondrosarcoma  
Alaska (Alaska Native Medical Center) - Myxoid chondrosarcoma (2); Chondrosarcoma, high grade, conventional (1)  
Arizona (Maryvale Medical Center) - Extraskeletal chondrosarcoma  
Arizona (St. Josephs Hospital Residents) - Extraskeletal myxoid chondrosarcoma  
Florida (Baptist Hospital) - Chondrosarcoma, extraskeletal type (1); Extraskeletal myxoid chondrosarcoma (1)  
Florida (Munroe Regional Medical Center) - Extraskeletal myxoid chondrosarcoma  
Florida (Pathology Associates) - Myxoid chondrosarcoma  
Florida (Winter Haven Hospital) - Extraskeletal myxoid chondrosarcoma  
Illinois (Northwestern Memorial Hospital) - Myxoid chondrosarcoma  
Louisiana (Louisiana State University Medical Center) - Pigmented villonodular synovitis  
Maryland (National Naval Medical Center) - Chondrosarcoma (11)  
Massachusetts (Berkshire Medical Center) - Chondrosarcoma, Grade II (9)  
Massachusetts (New England Medical Center Residents) - Extraskeletal myxoid chondrosarcoma  
Michigan (Oakwood Hospital) - Myxoid chondrosarcoma  
Michigan (St. Joseph Mercy Hospital) - Pigmented villonodular tenosynovitis  
Minnesota (Fairview Southdale Hospital) - Synovial chondromatosis  
Mississippi (University of Mississippi Medical Center) - Myxoid chondrosarcoma  
Nebraska (Creighton University School of Medicine Residents) - Myxofibrosarcoma vs. myxoid epithelial hemangioepithelioma  
Nevada (Western Pathology Associates) - Extraskeletal chondrosarcoma  
New Jersey (Overlook Hospital) - Extraskeletal myxoid chondrosarcoma  
New York (Long Island Jewish Medical Center) - Extraskeletal myxoid chondrosarcoma  
New York (Nassau University Medical Center) - Myxoid mesenchymal chondrosarcoma  
New York (New York Presbyterian Hospital Residents) - Extraskeletal myxochondrosarcoma  
New York (Stony Brook University Hospital Residents) - Synovial chondromatosis  
North Carolina (Duke University Medical Center Residents) - Epithelioid hemangioendothelioma vs. myxoid chondrosarcoma  
Ohio (Medical College of Ohio Residents) - Extraskeletal myxoid chondrosarcoma  
Oklahoma (Tulsa) - Pigmented villonodular synovitis  
Oklahoma (University of Oklahoma HSC Residents) - Pigmented villonodular synovitis  
Pennsylvania (Allegheny General Hospital) - Extraskeletal myxoid chondrosarcoma  
Pennsylvania (Centre Community Hospital) - Epithelioid hemangioendothelioma  
Pennsylvania (Conemaugh Memorial Medical Center) - Dedifferentiated liposarcoma  
Pennsylvania (Drexel University College of Medicine) - Hemosiderotic synovitis  
Pennsylvania (Lehigh Valley Hospital) - Chondrosarcoma  
Pennsylvania (York Hospital) - Myxoid chondrosarcoma (8)  
Puerto Rico (University of Puerto Rico) - Pigmented villonodular tenosynovitis  
Rhode Island (RI Hospital Residents) - Myxoid chondrosarcoma  
Texas (Lackland AFB) - Extraskeletal myxoid chondrosarcoma  
Texas (Propath Associates) - Epithelioid angiosarcoma (2)  
Texas (Scott & White Memorial Hospital) - Extraskeletal myxoid chondrosarcoma  
Utah (University of Utah Residents) - PVNS/localized hemosiderotic tenosynovitis  
West Virginia (Greenbrier Valley Medical Center) - Chondroma, extra osseous  
Australia (North Queensland Pathology Group) - Myxoid chondrosarcoma  
Australia (Royal Prince Alfred Hospital) - Extraskeletal myxoid chondrosarcoma with hemorrhage  
Canada (Foothills Medical Center) - Giant cell tumor of tendon sheath  
Hong Kong (Hong Kong Baptist Hospital) - Angiomatoid malignant fibrous histiocytoma

Japan (Yamanashi Medical University) - Extraskelatal myxoid chondrosarcoma (2); Synovial sarcoma (1); Pigmented villonodular synovitis (1)

Qatar (Hamad Medical Corporation) - Chondrosarcoma, moderately differentiated, grade II

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

Extraskelatal myxoid chondrosarcoma, knee  
T-Y9200, M-92203

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

Gephardt MC, Parekh SG, Rosenberg AE, et al. Extraskelatal Myxoid Chondrosarcoma of the Knee. *Skeletal Radiol* 1999; 28(6):354-358.

Takeda A, Tsuchiya H, Mori Y, et al. Extraskelatal Myxoid Chondrosarcoma with Multiple Skeletal Metastases. *J Orthop Sci* 2000; 5(2):171-174.

Rubin BP, Fletcher JA. Skeletal and Extraskelatal Myxoid Chondrosarcoma. Related or Distinct Tumors? *Adv Anat Pathol* 1999; 6(4):204-212.

Oliveira AM, Nascimento AG. Phenotypic Plasticity and Prognostic Factors in Extraskelatal Myxoid Chondrosarcoma. *Adv Anat Pathol* 2000; 7(2):73-78.

Whitten CG, el-Khoury GY, Benda JA, et al. Case Report 829. Intramuscular Myxoid Chondrosarcoma. *Skeletal Radiol* 1994; 23(2):153-156.

### **Case No. 7, Accession No. 29469**

**September 2003**

Alameda (Alameda County Medical Center) - Chondroma, atypical

Bakersfield - Enchondroma

Baldwin Park (Kaiser Permanente) - Enchondroma (1); Chondroma (1); Chondroma/enchondroma (1)

Fontana (Kaiser Permanente) - Chondroma

Hayward/Fremont - Chondroma

Laguna Beach (South Coast Medical Center) - Chondroma

Loma Linda (Loma Linda University Residents) - Low grade chondrosarcoma, chondroid chondroma vs. low grade chondrosarcoma

Long Beach - Chondroma (8)

Mountain View (El Camino Pathology Group) - Chondroma

Orange (Orange County Pathology Medical Group) - Chondroma

Orange (UCI Medical Center Residents) - Chondroma

Sacramento (UC Davis Medical Center) - Chondroma

San Diego (Naval Medical Center) - Chondroma

San Francisco (San Francisco General Hospital) - Chondrosarcoma

Santa Barbara (Cottage Hospital) - Chondroma of falx

Santa Rosa (Santa Rosa Memorial Hospital) - Chondroma (3)

Ventura - Chondroma

Alaska (Alaska Native Medical Center) - Chondrosarcoma, intracranial, low grade (2); Chondroma (1)

Arizona (Maryvale Medical Center) - Chondroma, dural

Arizona (St. Josephs Hospital Residents) - Well-differentiated chondrosarcoma

Florida (Baptist Hospital) - Chordoma (2)

Florida (Munroe Regional Medical Center) - Chondrosarcoma

Florida (Pathology Associates) - Chondroma

Florida (Winter Haven Hospital) - Chondroma

Illinois (Northwestern Memorial Hospital) - Chondrosarcoma, low grade

Louisiana (Louisiana State University Medical Center) - Chondroma

Maryland (National Naval Medical Center) - Chondroma (11)

Massachusetts (Berkshire Medical Center) - Chondrosarcoma, low grade (9)

Massachusetts (New England Medical Center Residents) - Low grade chondrosarcoma

Michigan (Oakwood Hospital) - Chondrosarcoma, low grade

Michigan (St. Joseph Mercy Hospital) - Grade I, chondrosarcoma

Minnesota (Fairview Southdale Hospital) - Low grade chondrosarcoma  
Mississippi (University of Mississippi Medical Center) - Dural chondroma  
Nebraska (Creighton University School of Medicine Residents) - Choroloma  
Nevada (Western Pathology Associates) - Chondroma  
New Jersey (Overlook Hospital) - Chondroma  
New York (Long Island Jewish Medical Center) - Chondroma  
New York (Nassau University Medical Center) - Chondrosarcoma, well-differentiated  
New York (New York Presbyterian Hospital Residents) - Soft tissue chondroma  
New York (Stony Brook University Hospital Residents) - Chondroma  
North Carolina (Duke University Medical Center Residents) - Dural chondroma  
Ohio (Medical College of Ohio Residents) - Meningeal chondroma  
Oklahoma (Tulsa) - Chondroma  
Oklahoma (University of Oklahoma HSC Residents) - Extraskelatal chondroma  
Pennsylvania (Allegheny General Hospital) - Low grade chondrosarcoma  
Pennsylvania (Centre Community Hospital) - Chondrosarcoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Chondrosarcoma  
Pennsylvania (Drexel University College of Medicine) - Meningeal well-differentiated chondrosarcoma  
Pennsylvania (Lehigh Valley Hospital) - Chondroma  
Pennsylvania (York Hospital) - Low grade chondrosarcoma (8)  
Puerto Rico (University of Puerto Rico) - Chondroma  
Rhode Island (RI Hospital Residents) - Chondroma  
Texas (Lackland AFB) - Chondrosarcoma (doubt chondroma or meningioma with marked chondroid differentiation)  
Texas (ProPath Associates) - Chondroid chordoma (2)  
Texas (Scott & White Memorial Hospital) - Chondroma  
Utah (University of Utah Residents) - Chondrosarcoma, low grade  
West Virginia (Greenbrier Valley Medical Center) - Chondroma  
Australia (North Queensland Pathology Group) - Chondroma  
Australia (Royal Prince Alfred Hospital) - Low grade cartilage tumor probably chondroma  
Canada (Foothills Medical Center) - Chondrosarcoma  
Hong Kong (Hong Kong Baptist Hospital) - Low grade chondrosarcoma, DDx: Chondroid chordoma  
Jamaica (The University of the West Indies) - Chondrosarcoma  
Japan (Yamanashi Medical University) - Chondrosarcoma (3); Chondroma (1)  
Qatar (Hamad Medical Corporation) - Chondroid chordoma

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

Chondroma, falx cerebri  
 T-X1140, M-92200

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

Ozgen T, Pamar MN, Akalan N, et al. Intracranial Solitary Chondroma. Case Report. *J Neurosurg* 1984; 61(2):399-401.  
 Fenyes G, Slowik F and Deak G. On a Surgically Removed Intracranial Chondroma. *Zentralbl Neurochir* 1965; 26(1):22-28.  
 (German)  
 Lin WC, Lirng JF, Ho DM, et al. A Rare Giant Intracranial Osteochondroma. *Zhonghua Yi Xue Za Zhi* 2002; 65(5):235-238.  
 Ishibashi H, Matsuno H, Nagata S, et al. Posterior Fossa Chondroma Arising from the Tentorium. A Case Report. *Surg Neurol* 1999; 52(6):604-606.

#### **Case No. 8, Accession No. 29451**

**September 2003**

Alameda (Alameda County Medical Center) - Seminoma  
Bakersfield - Seminoma  
Baldwin Park (Kaiser Permanente) - Seminoma (3)  
Fontana (Kaiser Permanente) - Seminoma  
Hayward/Fremont - Seminoma

Laguna Beach (South Coast Medical Center) - Classic seminoma  
Loma Linda (Loma Linda University Residents) - Seminoma  
Long Beach - Seminoma (8)  
Mountain View (El Camino Pathology Group) - Seminoma  
Orange (Orange County Pathology Medical Group) - Seminoma, classic  
Orange (UCI Medical Center Residents) - Seminoma  
Sacramento (UC Davis Medical Center) - Spermatocytic seminoma  
San Diego (Naval Medical Center) - Seminoma  
San Francisco (San Francisco General Hospital) - Seminoma  
Santa Barbara (Cottage Hospital) - Seminoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Seminoma (3)  
Ventura - Seminoma  
Alaska (Alaska Native Medical Center) - Seminoma (anaplastic) (2); Spermatocytic seminoma (anaplastic) (1)  
Arizona (Maryvale Medical Center) - Seminoma, testicle  
Arizona (St. Josephs Hospital Residents) - Seminoma  
Florida (Baptist Hospital) - Seminoma (2)  
Florida (Munroe Regional Medical Center) - Seminoma  
Florida (Pathology Associates) - Seminoma  
Florida (Winter Haven Hospital) - Seminoma  
Illinois (Northwestern Memorial Hospital) - Seminoma  
Louisiana (Louisiana State University Medical Center) - Seminoma  
Maryland (National Naval Medical Center) - Seminoma, classic (11)  
Massachusetts (Berkshire Medical Center) - Seminoma (9)  
Massachusetts (New England Medical Center Residents) - Seminoma, classic  
Michigan (Oakwood Hospital) - Seminoma  
Michigan (St. Joseph Mercy Hospital) - Seminoma, classic type  
Minnesota (Fairview Southdale Hospital) - Seminoma  
Mississippi (University of Mississippi Medical Center) - Seminoma, typical  
Nebraska (Creighton University School of Medicine Residents) - Seminoma  
Nevada (Western Pathology Associates) - Classical seminoma  
New Jersey (Overlook Hospital) - Seminoma  
New York (Long Island Jewish Medical Center) - Seminoma, classical type  
New York (Nassau University Medical Center) - Classical seminoma  
New York (New York Presbyterian Hospital Residents) - Seminoma  
New York (Stony Brook University Hospital Residents) - Seminoma  
North Carolina (Duke University Medical Center Residents) - Seminoma  
Ohio (Medical College of Ohio Residents) - Seminoma, classic type  
Oklahoma (Tulsa) - Seminoma  
Oklahoma (University of Oklahoma HSC Residents) - Anaplastic seminoma  
Pennsylvania (Allegheny General Hospital) - Seminoma  
Pennsylvania (Centre Community Hospital) - Spermatocytic seminoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Classic seminoma  
Pennsylvania (Drexel University College of Medicine) - Seminoma  
Pennsylvania (Lehigh Valley Hospital) - Classic seminoma  
Pennsylvania (York Hospital) - Seminoma (8)  
Puerto Rico (University of Puerto Rico) - Classic seminoma  
Rhode Island (RI Hospital Residents) - Seminoma  
Texas (Lackland AFB) - Seminoma  
Texas (ProPath Associates) - Seminoma (2)  
Texas (Scott & White Memorial Hospital) - Seminoma  
Utah (University of Utah Residents) - Seminoma  
West Virginia (Greenbrier Valley Medical Center) - Seminoma  
Australia (North Queensland Pathology Group) - Classical seminoma

Australia (Royal Prince Alfred Hospital) - Granulomatous seminoma  
Canada (Foothills Medical Center) - Seminoma  
Hong Kong (Hong Kong Baptist Hospital) - Seminoma  
Jamaica (The University of the West Indies) - Seminoma  
Japan (Yamanashi Medical University) - Seminoma (3); Spermatocytic seminoma (1)  
Qatar (Hamad Medical Corporation) - Seminoma

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

Seminoma, testis  
 T-78000, M-90613

#### **Case 8 – References:**

Zablow A, Erba P and Sanfilippo LJ. Early Stage Pure Seminoma Testis. *N J Med* 1989; 86(10):800-803.  
 Suzuki K, Orikasa S, Hoshi S, Yoshibawa K, et al. Surveillance Study for Clinical Stage I Testicular Seminomas and Nonseminomatous Germ Cell Tumors. *Int J Urol* 1998; 5(6):568-574.  
 Narayana AS, Loening S, Weimar G, et al. Serum Markers in Testicular Tumors. *J Urol* 1979; 121(1):51-53.  
 Lightner DJ and Lange PH. Testicular Tumors. *Immunol Ser* 1990; 53:397-401.  
 Shahidi M, Norman AR, Dearnaley DP, et al. Late Recurrence in 1263 Men with Testicular Germ Cell Tumors. Multivariate Analysis of Risk Factors and Implications for Management. *Cancer* 2002; 95(3):520-530.

#### **Case No. 9, Accession No. 29160**

**September 2003**

Alameda (Alameda County Medical Center) - Inflammatory myofibroblastic tumor  
Bakersfield - Leiomyosarcoma  
Baldwin Park (Kaiser Permanente) - Leiomyosarcoma (3)  
Fontana (Kaiser Permanente) - Sarcoma, probably leiomyosarcoma  
Hayward/Fremont - Spindle cell tumor, metaplastic carcinoma vs. myofibroblastoma (need CD34)  
Laguna Beach (South Coast Medical Center) - Myofibroblastoma  
Loma Linda (Loma Linda University Residents) - Myofibroblastoma  
Long Beach - Leiomyosarcoma (8)  
Mountain View (El Camino Pathology Group) - Spindle cell carcinoma  
Orange (Orange County Pathology Medical Group) - Nodular fasciitis  
Orange (UCI Medical Center Residents) - Malignant Phyllodes tumor, high grade  
Sacramento (UC Davis Medical Center) - Inflammatory myofibroblastic tumor  
San Diego (Naval Medical Center) - Inflammatory myofibroblastic tumor (12/19); Sarcoma, NOS (7/19)  
San Francisco (San Francisco General Hospital) - Leiomyosarcoma  
Santa Barbara (Cottage Hospital) - Sarcoma (leiomyosarcoma)  
Santa Rosa (Santa Rosa Memorial Hospital) - Leiomyosarcoma (3)  
Ventura - Leiomyosarcoma  
Alaska (Alaska Native Medical Center) - Malignant myoepithelioma/myoepithelial carcinoma, spindle cell type (2); Spindle cell sarcoma (1)  
Arizona (Maryvale Medical Center) - Leiomyosarcoma  
Arizona (St. Josephs Hospital Residents) - Inflammatory pseudotumor  
Florida (Baptist Hospital) - Epithelioid leiomyosarcoma (1); Spindle cell sarcoma, favor leiomyosarcoma (1)  
Florida (Munroe Regional Medical Center) - Leiomyosarcoma  
Florida (Pathology Associates) - Metaplastic carcinoma  
Florida (Winter Haven Hospital) - Leiomyosarcoma  
Illinois (Northwestern Memorial Hospital) - Malignant Phyllodes tumor of breast  
Louisiana (Louisiana State University Medical Center) - Metaplastic breast carcinoma  
Maryland (National Naval Medical Center) - Leiomyosarcoma (11)  
Massachusetts (Berkshire Medical Center) - Myofibroblastoma (2); Fibromatosis (7)  
Massachusetts (New England Medical Center Residents) - Leiomyosarcoma  
Michigan (Oakwood Hospital) - Metaplastic carcinoma

Michigan (St. Joseph Mercy Hospital) - Leiomyosarcoma  
Minnesota (Fairview Southdale Hospital) - Leiomyosarcoma  
Mississippi (University of Mississippi Medical Center) - Myoepithelioma vs. leiomyosarcoma  
Nebraska (Creighton University School of Medicine Residents) - Malignant sarcoma  
Nevada (Western Pathology Associates) - Nodular fasciitis  
New Jersey (Overlook Hospital) - Soft tissue osteogenic sarcoma  
New York (Long Island Jewish Medical Center) - Pseudotumor/nodular fasciitis  
New York (Nassau University Medical Center) - Phyllodes sarcoma, high grade  
New York (New York Presbyterian Hospital Residents) - Myofibroblastic sarcoma  
New York (Stony Brook University Hospital Residents) - Leiomyosarcoma  
North Carolina (Duke University Medical Center Residents) - Nodular fasciitis vs. sarcoma  
Ohio (Medical College of Ohio Residents) - Inflammatory myofibroblastic tumor  
Oklahoma (Tulsa) - Leiomyosarcoma  
Oklahoma (University of Oklahoma HSC Residents) - Spindle cell carcinoma  
Pennsylvania (Allegheny General Hospital) - Leiomyosarcoma  
Pennsylvania (Centre Community Hospital) - Malignant myoepithelioma  
Pennsylvania (Conemaugh Memorial Medical Center) - Leiomyosarcoma  
Pennsylvania (Drexel University College of Medicine) - Inflammatory fibroblastic disease (inflammatory pseudoma)  
Pennsylvania (Lehigh Valley Hospital) - Inflammatory myofibroblastic tumor  
Pennsylvania (York Hospital) - Leiomyosarcoma (8)  
Puerto Rico (University of Puerto Rico) - Inflammatory pseudotumor  
Rhode Island (RI Hospital Residents) - Myofibroblastoma  
Texas (Lackland AFB) - Spindle cell carcinoma (doubt leiomyosarcoma, I would do several more keratins)  
Texas (ProPath Associates) - Leiomyosarcoma (2)  
Texas (Scott & White Memorial Hospital) - Spindle cell sarcoma  
Utah (University of Utah Residents) - Leiomyosarcoma  
West Virginia (Greenbrier Valley Medical Center) - Inflammatory myofibroblastic tumor  
Australia (North Queensland Pathology Group) - Spindle cell myoepithelial tumor/differential diagnosis, leiomyosarcoma  
Australia (Royal Prince Alfred Hospital) - Myofibroblastic sarcoma  
Canada (Foothills Medical Center) - Leiomyosarcoma  
Hong Kong (Hong Kong Baptist Hospital) - Myofibroblastoma  
Jamaica (The University of the West Indies) - Fibrosarcoma  
Japan (Yamanashi Medical University) - Stromal sarcoma (3); Leiomyosarcoma (1)  
Qatar (Hamad Medical Corporation) - Nodular fasciitis (4); Inflammatory pseudotumor (2)

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

Myofibroblastoma, breast  
 T-04000, M-95800

#### **Case 9 – References:**

Powari M, Srinivasan R and Radotra BD. Myofibroblastoma of the Male Breast. A Diagnostic Problem on Fine-Needle Aspiration Cytology. *Diagn Cytopathol* 2002; 26(5):290-293.  
 Alam FM, Samarasinghe DS and Pillai RG. Myofibroblastoma of the Breast in an Adolescent. *Saudi Med J* 2002; 23(2):232-233.  
 Magro G, Bisceglia M, Michal M, et al. Spindle Cell Lipoma-Like tumor, Solitary Fibrous Tumor and Myofibroblastoma of the Breast. A Clinicopathological Analysis of 13 Cases in Favor of a Unifying Histogenetic Concept. *Virchows Arch* 2002; 440(3):249-260.  
 McMenamin ME, DeSchraver K and Fletcher CD. Fibrous Lesions of the Breast. A Review. *Int J Surg Pathol* 2000; 8(2):99-108.  
 McMenamin ME and Fletcher CD. Mammary-Type Myofibroblastoma of Soft Tissue. A Tumor Closely Related to Spindle Cell Lipoma. *Am J Surg Pathol* 2001; 25(8):1022-1029.  
 Dockery WD, Singh HR and Wilentz RE. Myofibroblastoma of the Male Breast. Imaging Appearance and Ultrasound-Guided Core Biopsy Diagnosis. *Breast J* 2001; 7(3):192-194.



Alameda (Alameda County Medical Center) - Meningioma, atypical  
Bakersfield - Meningioma  
Baldwin Park (Kaiser Permanente) - Meningioma (3)  
Fontana (Kaiser Permanente) - Meningioma  
Hayward/Fremont - Meningioma (rhabdoid)  
Laguna Beach (South Coast Medical Center) - Meningothelial meningioma  
Loma Linda (Loma Linda University Residents) - Meningioma  
Long Beach - Meningioma (8)  
Mountain View (El Camino Pathology Group) - Rhabdoid meningioma  
Orange (Orange County Pathology Medical Group) - Meningioma  
Orange (UCI Medical Center Residents) - Secretory meningioma  
Sacramento (UC Davis Medical Center) - Meningioma, oncocytic  
San Diego (Naval Medical Center) - Meningioma, grade I  
San Francisco (San Francisco General Hospital) - Metastatic renal cell vs. meningioma  
Santa Barbara (Cottage Hospital) - Chordoid meningioma  
Santa Rosa (Santa Rosa Memorial Hospital) - Atypical meningioma (2); Meningioma (1)  
Ventura - Meningioma  
Alaska (Alaska Native Medical Center) - Atypical meningioma  
Arizona (Maryvale Medical Center) - Atypical meningioma  
Arizona (St. Josephs Hospital Residents) - Atypical meningioma  
Florida (Baptist Hospital) - Meningioma (2)  
Florida (Munroe Regional Medical Center) - Meningioma  
Florida (Pathology Associates) - Meningioma  
Florida (Winter Haven Hospital) - Meningioma  
Illinois (Northwestern Memorial Hospital) - Atypical meningioma  
Louisiana (Louisiana State University Medical Center) - Meningioma  
Maryland (National Naval Medical Center) - Meningioma chordoid (11)  
Massachusetts (Berkshire Medical Center) - Meningioma, chordoid type (9)  
Massachusetts (New England Medical Center Residents) - Meningioma, oncocytic  
Michigan (Oakwood Hospital) - Meningioma  
Michigan (St. Joseph Mercy Hospital) - Meningioma  
Minnesota (Fairview Southdale Hospital) - Meningioma  
Mississippi (University of Mississippi Medical Center) - Atypical meningioma  
Nebraska (Creighton University School of Medicine Residents) - Meningioma  
Nevada (Western Pathology Associates) - Chordoid meningioma  
New Jersey (Overlook Hospital) - Meningioma  
New York (Long Island Jewish Medical Center) - Chordoid meningioma  
New York (Nassau University Medical Center) - Meningioma, atypical  
New York (New York Presbyterian Hospital Residents) - Meningioma with necrosis  
New York (Stony Brook University Hospital Residents) - Oncocytic meningioma  
North Carolina (Duke University Medical Center Residents) - Meningioma ?, atypical  
Ohio (Medical College of Ohio Residents) - Extracranial meningioma  
Oklahoma (Tulsa) - Chordoid meningioma  
Oklahoma (University of Oklahoma HSC Residents) - Rhabdoid meningioma  
Pennsylvania (Allegheny General Hospital) - Meningioma  
Pennsylvania (Centre Community Hospital) - Meningothelial meningioma  
Pennsylvania (Conemaugh Memorial Medical Center) - Angiomatous meningioma  
Pennsylvania (Drexel University College of Medicine) - Meningioma  
Pennsylvania (Lehigh Valley Hospital) - Meningioma  
Pennsylvania (York Hospital) - Meningioma (8)  
Puerto Rico (University of Puerto Rico) - Meningioma, rhabdoid type

Rhode Island (RI Hospital Residents) - Meningioma  
Texas (Lackland AFB) - Meningioma  
Texas (Propath Associates) - Aggressive meningioma (2)  
Texas (Scott & White Memorial Hospital) - Meningioma  
Utah (University of Utah Residents) - Meningioma  
West Virginia (Greenbrier Valley Medical Center) - Meningioma, meningothelial  
Australia (North Queensland Pathology Group) - Grade I, meningioma  
Australia (Royal Prince Alfred Hospital) - (? secretory) meningioma  
Canada (Foothills Medical Center) - Atypical meningioma  
Hong Kong (Hong Kong Baptist Hospital) - Meningioma  
Jamaica (The University of the West Indies) - Metastatic adenocarcinoma, poorly differentiated  
Japan (Yamanashi Medical University) - Meningioma secretory (2); Rhabdoid (1); Ependymoma (1)  
Qatar (Hamad Medical Corporation) - Rhabdoid meningioma, WHO, Grade III

**Case 10 - Diagnosis:**

Chordoid meningioma, frontal fossa  
 T-Y0111, M-95300

Neuropathology consultation: Boleslaw Liwnicz, M.D.: “Choroid meningioma.”

**Case 10 - References:**

Ikeda K, Shoin K, Mohri M, et al. Surgical Indications and Microsurgical Anatomy of the Transchoroidal Fissure Approach for Lesions In and Around the Ambient Cistern. *Neurosurg* 2002; 50(5):1114-1119.  
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