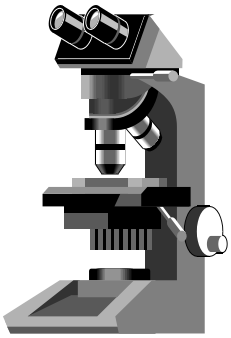
CALIFORNIA
TUMOR TISSUE REGISTRY

TUMORS OF THE CHEST AND MEDIASTINUM

Minutes – Subscription B

September 2001



SUGGESTED READING (General Topics from Recent Literature):

A Clinicopathologic Study of Minimally Invasive Follicular Carcinoma of the Thyroid. Gland with a Review of the English Literature. Thompson LDR, Wieneke JA, et al. *Cancer* 2001; 91:505-524.

Gastrointestinal Stromal Tumor—Definition, Clinical, Histological, Immunohistochemical, and Molecular Genetic Features and Differential Diagnosis. Miettinen M and Lasota J. *Virchows Arch* 2001; 438:1-12.

Sarcomatoid Differentiation in Renal Cell Carcinoma. Study of 101 Cases. de Peralta-Venturina M, Moch H, et al. *Am J Surg Pathol* 2001; 25(3):275-284.

A Practical Approach for Evaluating New Antibodies in the Clinical Immunohistochemistry Laboratory. His ED. *Arch Pathol Lab Med* 2001; 125:289-294.

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FILE DIAGNOSES

CTTR Subscription B September 2001

Case 1:

Multiloculated thymic cyst
T-Y2300, M-33400

Case 2:

Encapsulated epithelial thymoma, thymus
T-98000, M-85800

Case 3:

Solitary fibrous tumor, pleura
T-29000, M-90510

Case 4:

Pulmonary hyalinizing granuloma
T-28000, M-44000

Case 5:

Bronchioloalveolar carcinoma, mucinous type, lung
T-28000, M-82503

Case 6:

Poorly differentiated adenocarcinoma with asbestos/ferruginous bodies, lung
T-28000, M-81403

Case 7:

Thymic carcinoid
T-Y2300, M-82401

Case 8:

Anaplastic large cell lymphoma ("Ki-1 lymphoma"), chest wall
T-Y2150, M-95903

Case 9:

Spindle cell sarcoma (NOS), lung
T-28000, M-88013

Case 10:

Pleomorphic sarcoma with phenotype of so-called MFH, chest wall
T-Y2100, M-88023

Escondido - Parathyroid adenoma
Glendale (Glendale Pathology Associates) - Multilocular thymic cyst
Irvine (UCI Medical Center Residents) - Cystic thymoma
Loma Linda (Loma Linda University Medical Center Residents) - Multilocular thymic cyst
Modesto (Yosemite Pathology Medical Group) - Thymic cyst
San Francisco (UCSF Pathology Residents) - Type AB thymoma, microcystic and solid
Tustin - Cystic thymoma
Alabama (Cunningham Pathology) - Cystic thymoma
Arizona (Phoenix Memorial Hospital) - Parathyroid adenoma, mediastinal
Arkansas (UAMS) - Thymoma with microcystic pattern
Colorado (UniPath) - Thymoma
Florida (Hospital Pathologists) - Carcinoid, malignant
Florida (Munroe Regional Medical Center) - Substernal goiter
Florida (Winter Haven Hospital) - Cystic thymoma
Georgia, Decatur - Thymoma
Illinois (Marion Memorial Hospital) - Thymoma
Illinois, Skokie - Multilocular thymic cyst
Indiana, Fort Wayne - Thymoma - cystic
Kansas (Coffeyville Regional Medical Center) - Yolk sac tumor
Kansas (University of Kansas Medical Center) - Type A thymoma
Kentucky (University of Louisville Residents) - Cystic thymoma
Maryland (NIH Pathology) - Cystic thymoma
Maryland (National Naval Medical Center) - Thymoma, cystic (12); Lymphangiomatous thymoma (1)
Maryland (University of Maryland) - Thymoma, lymphocytic
Massachusetts (Brigham and Women's Residents) - Multilocular thymic cyst vs. thymoma with cystic degeneration
Michigan, East Lansing - No answer
Michigan (Spectrum Health) - Clear cell thymoma
Michigan (St. Joseph Mercy Hospital) - Thymoma (2)
Mississippi, Grenada - ? thymoma consistent with pseudoglandular spaces
Missouri (Ferguson's Medical Laboratory) - Cystic thymoma with gland formations
Nebraska (Good Samaritan Hospital) - Thymic multilocular cyst
New Jersey (NJ Dermatopathology Laboratory) - Multiloculated thymic cyst
New York (Nassau University Medical Center Residents) - Cystic thymoma, anterior mediastinum
New York (Quest Diagnostics) - Thymoma
Ohio, Columbus - Thymoma/thymic cyst
Ohio (MCO Pathology) - Multilocular thymic cyst
Pennsylvania (Allegheny General Hospital) - Thymic cyst, multilocular
Pennsylvania (Conemaugh Memorial Medical Center) - Clear cell carcinoma of thymus
Pennsylvania (Memorial Medical Center) - Clear cell carcinoma, thymus
Pennsylvania, Sewickley - Mediastinal thyroid
Puerto Rico (University of Puerto Rico) - Thymic cyst
Tennessee, Nashville - Type A thymoma (medullary)
Texas, Lubbock - Thymoma
Texas, San Antonio - Multilocular thymic cyst
Texas (Scott & White Memorial Hospital) - Cystic thymoma
Texas (Shannon Clinic Pathology Laboratory) - Thymoma, lymphocyte predominant type
Virginia (Shenandoah Valley Pathology Laboratory) - Metastatic renal cell carcinoma vs. multiloculated cystic thymoma
Washington (SW Washington Medical Center) - Thymic cyst
Washington, DC - Cystic thymoma
Wisconsin, Muskego - Thymoma
Canada (CUSE Site Fleurimont) - Thymic cyst

Japan (Hamamatsu-shi University School of Medicine) - Thymoma, encapsulated
Japan (Self-Defense Hospital) - Multilocular thymic cyst
Netherlands - Multilocular thymic cyst
Saudi Arabia (King Khalid University Hospital) - Parathyroid adenoma
Spain (POVISA, Vigo) - Thymoma (glandular-cystic)

Case 1 - Diagnosis:
Multiloculated thymic cyst
T-Y2300, M-33400

Case 1 - References:

Chhieng DC, Demaria S, et al. Multilocular Thymic Cyst with Follicular Lymphoid Hyperplasia in a Male Infected with HIV. A Case Report with Fine Needle Aspiration Cytology. *Acta Cytol* 1999; 43(6):1119-1123.
Liang SB, Ohtsuki Y, et al. Multilocular Thymic Cysts Associated with Thymoma. A Case Report. *Pathol Res Pract* 1997; 193(7):531-532.
Kontny HU, Sleasman JW, et al. Multilocular Thymic Cysts in Children with Human Immunodeficiency Virus Infection. Clinical and Pathologic Aspects. *J Pediatr* 1997; 131(2):264-270.
Shalaby-Rana E, Selby D, et al. Multilocular Thymic Cyst in a Child with Acquired Immunodeficiency Syndrome. *Pediatr Infect Dis J* 1996; 15(1):83-86.
Nguyen Q, de Tar M, et al. Cervical Thymic Cyst. Case Reports and Review of the Literature. *Laryngoscope* 1996; 106(3 Pt 1):247-252.

Case No. 2, Accession No. 29364 September 2001

Escondido - Thymoma
Glendale (Glendale Pathology Associates) - Epithelial-rich thymoma
Irvine (UCI Medical Center Residents) - Thymoma
Loma Linda (Loma Linda University Medical Center Residents) - Mixed lymphocytic and epithelial thymoma
Modesto (Yosemite Pathology Medical Group) - Thymoma, epithelial predominant
San Francisco (UCSF Pathology Residents) - Type B2 thymoma
Tustin - Epithelioid thymoma
Alabama (Cunningham Pathology) - Mixed epithelioid/lymphocytic thymoma
Arizona (Phoenix Memorial Hospital) - Thymoma, predominantly epithelial
Arkansas (UAMS) - Thymoma, cortical type (Mueller-Hermelink)
Colorado (UniPath) - Thymoma
Florida (Hospital Pathologists) - Epithelial thymoma, minimally invasive
Florida (Munroe Regional Medical Center) - Thymoma spindle cell type
Florida (Winter Haven Hospital) - Mixed thymoma
Georgia, Decatur - Well-differentiated thymic carcinoma
Illinois (Marion Memorial Hospital) - Thymoma, atypical, non-encapsulated
Illinois, Skokie - Thymoma
Indiana, Fort Wayne - Epithelial thymoma, mediastinum with myasthenia syndrome
Kansas (Coffeyville Regional Medical Center) - Thymoma
Kansas (University of Kansas Medical Center) - Thymoma
Kentucky (University of Louisville Residents) - Thymoma, benign
Maryland (NIH Pathology) - Thymoma, mixed epithelial-lymphocytic variant
Maryland (National Naval Medical Center) - Thymoma (13); Thymoma with areas suspicious for invasion (1)
Maryland (University of Maryland) - Thymoma, epithelial
Massachusetts (Brigham and Women's Residents) - Cortical thymoma (type B2 vs. B3)
Michigan, East Lansing - Thymoma
Michigan (Spectrum Health) - Epithelial thymoma
Michigan (St. Joseph Mercy Hospital) - Thymoma (1); Invasive thymoma (1)
Mississippi, Grenada - Thymoma with polygonal epithelial cells, nonencapsulated

Missouri (Ferguson's Medical Laboratory) - Thymoma
Nebraska (Good Samaritan Hospital) - Thymoma, mixed type
New Jersey (NJ Dermatopathology Laboratory) - Invasive thymoma with myasthenia gravis
New York (Nassau University Medical Center Residents) - Thymoma, epithelial predominant, mediastinum
New York (Quest Diagnostics) - Thymoma
Ohio, Columbus - Thymoma
Ohio (MCO Pathology) - Thymoma
Pennsylvania (Allegheny General Hospital) - Thymoma
Pennsylvania (Conemaugh Memorial Medical Center) - Thymoma
Pennsylvania (Memorial Medical Center) - Thymoma
Pennsylvania, Sewickley - Thymoma
Puerto Rico (University of Puerto Rico) - Thymoma (invasive?)
Tennessee, Nashville - Type B2 thymoma (cortical)
Texas, Lubbock - Thymoma
Texas, San Antonio - Thymoma
Texas (Scott & White Memorial Hospital) - Thymoma
Texas (Shannon Clinic Pathology Laboratory) - Thymoma, epithelial predominant type
Virginia (Shenandoah Valley Pathology Laboratory) - Thymoma
Washington (SW Washington Medical Center) - Thymoma
Washington, DC - Thymoma
Wisconsin, Muskego - Thymoma
Canada (CUSE Site Fleurimont) - Well-differentiated thymic ?
Japan (Hamamatsu-shi University School of Medicine) - Thymoma, encapsulated
Japan (Self-Defense Hospital) - Thymoma
Netherlands - Well-differentiated thymic carcinoma or thymoma B type
Saudi Arabia (King Khalid University Hospital) - Thymoma
Spain (POVISA, Vigo) - Epithelial thymoma

Case 2 - Diagnosis:

Encapsulated epithelial thymoma, thymus

T-98000, M-85800

Case 2 - References:

Pescarmona E, Rendina EA, Venuta F, et al. The Prognostic Implication of Thymoma Histologic Subtyping. A Study of 80 Consecutive Cases. *Am J of Clinic Pathol* 1990; 93(2):190-195.
Maggi G, Giaccone G, Donadio M, et al. Thymomas. A Review of 169 Cases with Particular Reference to Results of Surgical Treatment. *Cancer* 1986; 58(3):765-776.
Kuo T. Cytokeratin Profiles of the Thymus and Thymomas. Histogenetic Correlations and Proposal for a Histological Classification of Thymomas. *Histopathol* 2000; 36(5):403-414.
Chhieng DC, Rose D, et al. Cytology of Thymomas. Emphasis on Morphology and Correlation with Histologic Subtypes. *Cancer* 2000; 90(1):24-32.
Muller-Hermelink HK and Marx A. Towards a Histogenetic Classification of Thymic Epithelial Tumours? *Histopathol* 2000; 36(5):403-414.

Case No. 3, Accession No. 28020 September 2001

Escondido - Solitary fibrous tumor
Glendale (Glendale Pathology Associates) - Solitary fibrous tumor
Irvine (UCI Medical Center Residents) - Solitary fibrous tumor
Loma Linda (Loma Linda University Medical Center Residents) - Benign solitary fibrous tumor of the pleura
Modesto (Yosemite Pathology Medical Group) - Solitary fibrous tumor
San Francisco (UCSF Pathology Residents) - Localized fibrous tumor
Tustin - Solitary fibrous tumor

Alabama (Cunningham Pathology) - Solitary fibrous tumor
Arizona (Phoenix Memorial Hospital) - Solitary fibrous tumor, pleura
Arkansas (UAMS) - Solitary fibrous tumor
Colorado (UniPath) - Angiosarcoma
Florida (Hospital Pathologists) - Solitary fibrous tumor
Florida (Munroe Regional Medical Center) - Solitary fibrous tumor
Florida (Winter Haven Hospital) - Localized benign fibrous tumor, pleura
Georgia, Decatur - Solitary fibrous tumor
Illinois (Marion Memorial Hospital) - Localized fibrous tumor of pleura
Illinois, Skokie - Solitary fibrous tumor
Indiana, Fort Wayne - Solitary fibrous tumor, right thorax
Kansas (Coffeyville Regional Medical Center) - Hemangiopericytoma
Kansas (University of Kansas Medical Center) - Solitary fibrous tumor, benign
Kentucky (University of Louisville Residents) - Solitary fibrous tumor of the pleura
Maryland (NIH Pathology) - Solitary fibrous tumor
Maryland (National Naval Medical Center) - Solitary fibrous tumor
Maryland (University of Maryland) - Solitary fibrous tumor
Massachusetts (Brigham and Women's Residents) - Solitary fibrous tumor with extensive infarction
Michigan, East Lansing - Solitary fibrous tumor
Michigan (Spectrum Health) - Localized fibrous tumor of pleura
Michigan (St. Joseph Mercy Hospital) - Solitary fibrous tumor (2)
Mississippi, Grenada - Localized fibrous tumor
Missouri (Ferguson's Medical Laboratory) - Localized fibrous tumor of pleura
Nebraska (Good Samaritan Hospital) - Solitary fibrous tumor
New Jersey (NJ Dermatopathology Laboratory) - Solitary fibrous tumor
New York (Nassau University Medical Center Residents) - Localized fibrous tumor of pleura
New York (Quest Diagnostics) - Solitary fibrous tumor
Ohio, Columbus - Solitary fibrous tumor
Ohio (MCO Pathology) - Solitary fibrous tumor of pleura
Pennsylvania (Allegheny General Hospital) - Solitary fibrous tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Solitary fibrous tumor
Pennsylvania (Memorial Medical Center) - Solitary fibrous tumor
Pennsylvania, Sewickley - Solitary fibrous tumor
Puerto Rico (University of Puerto Rico) - Localized fibrous tumor of the pleura
Tennessee, Nashville - Solitary fibrous tumor
Texas, Lubbock - Hemangioendothelioma
Texas, San Antonio - Solitary fibrous tumor
Texas (Scott & White Memorial Hospital) - Solitary fibrous tumor
Texas (Shannon Clinic Pathology Laboratory) - Localized fibrous mesothelioma
Virginia (Shenandoah Valley Pathology Laboratory) - Solitary fibrous tumor
Washington (SW Washington Medical Center) - Localized fibrous tumor of the pleura
Washington, DC - Schwannoma
Wisconsin, Muskego - Solitary fibrous tumor
Canada (CUSE Site Fleurimont) - Hemangioma
Japan (Hamamatsu-shi University School of Medicine) - Localized benign fibrous tumor
Japan (Self-Defense Hospital) - Solitary fibrous tumor
Netherlands - Solitary fibrous tumor (Bcl2?)
Saudi Arabia (King Khalid University Hospital) - Solitary fibrous tumor
Spain (POVISA, Vigo) - Solitary fibrous tumor

Case 3 - Diagnosis:

Solitary fibrous tumor, pleura

T-29000, M-90510

Case 3 – References:

Flint A and Weiss SW. CD-34 and Keratin Expression Distinguishes Solitary Fibrous Tumor (Fibrous Mesothelioma) of Pleura from Desmoplastic Mesothelioma. *Hum Pathol* 1995; 26(4):428-431.

Goodlad JR and Fletcher CD. Solitary Fibrous Tumor Arising at Unusual Sites. Analysis of a Series. *Histopathol* 1991; 19(6):515-522.

Vallat-Decouvelaere AV, Dry SM and Fletcher CD. Atypical and Malignant Solitary Fibrous Tumors in Extrathoracic Locations. Evidence of their Comparability to Intra-Thoracic Tumors. *Am J Surg* 1998; 22(12):1501-1511.

Weynand B, Collard P and Galant C. Cytopathological Features of Solitary Fibrous Tumor of the Pleura. A Study of 5 Cases. *Diagn Cytopathol* 1998; 18(2):118-124.

Nielsen GP, O'Connell JX, et al. Solitary Fibrous Tumor of Soft Tissue. A Report of 15 Cases, Including 5 Malignant Examples with Light Microscopic, Immunohistochemical and Ultrastructural Data. *Mod Pathol* 1997; 10(10):1028-1037.

Case No. 4, Accession No. 19420 September 2001

Escondido - Inflammatory pseudotumor

Glendale (Glendale Pathology Associates) - Inflammatory myofibroblastic tumor

Irvine (UCI Medical Center Residents) - Pulmonary hyalinizing granuloma

Loma Linda (Loma Linda University Medical Center Residents) - Pulmonary hyalinizing granuloma

Modesto (Yosemite Pathology Medical Group) - Pulmonary hyalinizing granuloma

San Francisco (UCSF Pathology Residents) - Pulmonary hyalinizing granuloma

Tustin - Amyloid tumor

Alabama (Cunningham Pathology) - Sclerosed inflammatory pseudotumor

Arizona (Phoenix Memorial Hospital) - Healed granuloma with scarring

Arkansas (UAMS) - Pulmonary hyalinizing granuloma

Colorado (UniPath) - Coccidioidomycosis

Florida (Hospital Pathologists) - Nodular amyloidosis

Florida (Munroe Regional Medical Center) - Pulmonary hyalinized granuloma

Florida (Winter Haven Hospital) - Pulmonary hyalinizing granuloma

Georgia, Decatur - Pulmonary hyalinizing granuloma, rule out infectious granuloma (burn't out)

Illinois (Marion Memorial Hospital) - Intrapulmonary localized fibrous tumor vs. inflammatory pseudotumor with extensive fibrosis

Illinois, Skokie - Hamartoma

Indiana, Fort Wayne - Benign inflammatory myofibroblastic tumor (pseudotumor), right lung

Kansas (Coffeyville Regional Medical Center) - Amyloidoma vs collagenoma

Kansas (University of Kansas Medical Center) - Pulmonary hyalinized granuloma

Kentucky (University of Louisville Residents) - Plasma cell granuloma (pulmonary hyalinizing granuloma)

Maryland (NIH Pathology) - Pulmonary hyalinizing granuloma

Maryland (National Naval Medical Center) - Hyalinizing pulmonary granuloma (13)

Maryland (University of Maryland) - Pulmonary hyalinizing granuloma

Massachusetts (Brigham and Women's Residents) - "Burned out" infectious nodule

Michigan, East Lansing - Pulmonary hyalinizing granuloma

Michigan (Spectrum Health) - Hyalinizing granuloma

Michigan (St. Joseph Mercy Hospital) - Hyalinizing granuloma (2)

Mississippi, Grenada - Pulmonary hyalinizing granuloma

Missouri (Ferguson's Medical Laboratory) - Pulmonary hyalinizing granuloma

Nebraska (Good Samaritan Hospital) - Pulmonary hyalinizing granuloma

New Jersey (NJ Dermatopathology Laboratory) - Inflammatory pseudotumor

New York (Nassau University Medical Center Residents) - Hyalinizing granuloma, right lung

New York (Quest Diagnostics) - Pulmonary amyloidosis - nodular intra-parenchymal type

Ohio, Columbus - Inflammatory pseudotumor

Ohio (MCO Pathology) - Collagen hamartoma
Pennsylvania (Allegheny General Hospital) - Amyloid tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Amyloidosis
Pennsylvania (Memorial Medical Center) - Amyloidosis
Pennsylvania, Sewickley - Nodular pulmonary amyloid
Puerto Rico (University of Puerto Rico) - Pulmonary hyalinizing granuloma
Tennessee, Nashville - Blastomycosis with prominent keloid-like reaction
Texas, Lubbock - Cryptococcosis
Texas, San Antonio - Pulmonary hyalinizing granuloma
Texas (Scott & White Memorial Hospital) - Hyalinizing granuloma
Texas (Shannon Clinic Pathology Laboratory) - Pulmonary hyalinizing granuloma
Virginia (Shenandoah Valley Pathology Laboratory) - Infectious
Washington (SW Washington Medical Center) - Pulmonary hyalinizing granuloma
Washington, DC - Granuloma, hyalinized
Wisconsin, Muskego - Pulmonary hyalinizing granuloma
Canada (CUSE Site Fleurimont) - Sclerosing hemangioma
Japan (Hamamatsu-shi University School of Medicine) - Pulmonary hyalinizing granuloma
Japan (Self-Defense Hospital) - Pulmonary hyalinizing granuloma
Netherlands - Pulmonary hyalinizing granuloma
Saudi Arabia (King Khalid University Hospital) - Hyalinizing granuloma
Spain (POVISA, Vigo) - Hyalinizing granuloma (hystoplasma)

Case 4 - Diagnosis:
Pulmonary hyalinizing granuloma
T-28000, M-44000

Consultation: Averill A. Liebow, M.D., (University of California San Diego, 1971), "Hyalinized granuloma."

Case 4 - References:
Gorini M Forloni F, Pezzoli A, et al. Pulmonary Hyalinizing Granuloma. A Limited Form of Wegener's Granulomatosis? *Ann Ital Med Int* 1998; 13(3):176-179.
Ramirez J, Mehta JB, et al. Symptomatic Pulmonary Hyalinizing Granuloma. *South Med J*; 1998; 91(9):867-869.
Cunnington D, Teichtahl H, et al. Necrotizing Pulmonary Granulomata in a Marijuana Smoker. *Chest* 2000; 117(5):1511-1555.
Patel Y, Ishikawa S, et al. Pulmonary Hyalinizing Granuloma Presenting as Multiple Cavitary Calcified Nodules. *Chest* 1991; 100(6):1720-1721.
Zeid NA and Muller HK. Tobacco Smoke Induced Lung Granulomas and Tumors. Association with Pulmonary Langerhans Cells. *Pathol* 1995; 27(3):247-254.

Case No. 5, Accession No. 29104 September 2001

Escondido - Bronchioloalveolar carcinoma
Glendale (Glendale Pathology Associates) - Bronchioloalveolar carcinoma, rule out metastasis
Irvine (UCI Medical Center Residents) - Bronchioloalveolar carcinoma
Loma Linda (Loma Linda University Medical Center Residents) - Mucinous bronchioloalveolar carcinoma
Modesto (Yosemite Pathology Medical Group) - Mucinous bronchoalveolar carcinoma
San Francisco (UCSF Pathology Residents) - Mucinous bronchoalveolar carcinoma
Tustin - Adenocarcinoma, bronchioloalveolar type
Alabama (Cunningham Pathology) - Bronchioloalveolar carcinoma, mucinous type
Arizona (Phoenix Memorial Hospital) - Bronchioloalveolar carcinoma, mucinous type
Arkansas (UAMS) - Bronchioloalveolar carcinoma, mucinous type
Colorado (UniPath) - Adenocarcinoma
Florida (Hospital Pathologists) - Bronchoalveolar carcinoma, mucinous
Florida (Munroe Regional Medical Center) - Bronchoalveolar carcinoma

Florida (Winter Haven Hospital) - Bronchioalveolar carcinoma
Georgia, Decatur - Bronchioloalveolar carcinoma, mucinous type
Illinois (Marion Memorial Hospital) - Broncholoalveolar adenocarcinoma, mucinous type
Illinois, Skokie - Mucinous bronchoalveolar carcinoma
Indiana, Fort Wayne - Bronchioloalveolar carcinoma, diffuse (mucinous type), right lung
Kansas (Coffeyville Regional Medical Center) - Bronchiolar/alveolar carcinoma
Kansas (University of Kansas Medical Center) - Bronchioloalveolar carcinoma, mucinous type
Kentucky (University of Louisville Residents) - Bronchioalveolar carcinoma, mucinous type
Maryland (NIH Pathology) - Bronchoalveolar carcinoma
Maryland (National Naval Medical Center) - Mucinous bronchioloalveolar carcinoma
Maryland (University of Maryland) - Bronchioloalveolar carcinoma, mucinous
Massachusetts (Brigham and Women's Residents) - Mucinous bronchioloalveolar carcinoma
Michigan, East Lansing - Bronchioloalveolar carcinoma, mucinous subtype
Michigan (Spectrum Health) - Mucinous bronchoalveolar carcinoma
Michigan (St. Joseph Mercy Hospital) - Bronchoalveolar adenocarcinoma, mucinous type (2)
Mississippi, Grenada - Bronchioloalveolar carcinoma (rule out met.)
Missouri (Ferguson's Medical Laboratory) - Bronchoalveolar carcinoma
Nebraska (Good Samaritan Hospital) - Bronchoalveolar carcinoma, mucinous type
New Jersey (NJ Dermatopathology Laboratory) - Bronchioloalveolar carcinoma
New York (Nassau University Medical Center Residents) - Bronchioloalveolar carcinoma, mucinous variant, right lung
New York (Quest Diagnostics) - Bronchioloalveolar carcinoma, mucinous type
Ohio, Columbus - Bronchoalveolar carcinoma, mucinous
Ohio (MCO Pathology) - Bronchioloalveolar carcinoma, mucinous type
Pennsylvania (Allegheny General Hospital) - Bronchoalveolar carcinoma, mucinous type
Pennsylvania (Conemaugh Memorial Medical Center) - Bronchoalveolar carcinoma
Pennsylvania (Memorial Medical Center) - Bronchoalveolar carcinoma
Pennsylvania, Sewickley - Bronchioloalveolar cell carcinoma, mucinous
Puerto Rico (University of Puerto Rico) - Bronchioloalveolar carcinoma, mucinous type
Tennessee, Nashville - Mucinous bronchoalveolar carcinoma
Texas, Lubbock - Bronchoalveolar carcinoma
Texas, San Antonio - Mucinous bronchoalveolar carcinoma
Texas (Scott & White Memorial Hospital) - Mucinous bronchioloalveolar carcinoma
Texas (Shannon Clinic Pathology Laboratory) - Mucinous bronchioloalveolar carcinoma
Virginia (Shenandoah Valley Pathology Laboratory) - Adenocarcinoma, bronchial gland type vs. ? type
Washington (SW Washington Medical Center) - Bronchioloalveolar carcinoma
Washington, DC - Bronchioloalveolar carcinoma (mucinous)
Wisconsin, Muskego - Bronchioloalveolar carcinoma
Canada (CUSE Site Fleurimont) - Bronchioalveolar adenocarcinoma
Japan (Hamamatsu-shi University School of Medicine) - Mucinous bronchioloalveolar carcinoma
Japan (Self-Defense Hospital) - Bronchioloalveolar carcinoma (mucinous type)
Netherlands - Mucinous bronchioloalveolar carcinoma
Saudi Arabia (King Khalid University Hospital) - Bronchioloalveolar adenocarcinoma
Spain (POVISA, Vigo) - Bronchioloalveolar carcinoma, mucinous type

Case 5 - Diagnosis:

Bronchioloalveolar carcinoma, mucinous type, lung

T-28000, M-82503

Case 5 - References:

Dumont P, Gasser B, et al. Bronchoalveolar Carcinoma. Histopathologic Study of Evolution in a Series of 105 Surgically Treated Patients. *Chest* 1998; 113(2):391-395.

Okubo K, Mark EJ, Flieder D, et al. Bronchoalveolar Carcinoma. Clinical, Radiologic and Pathologic Factors and Survival. *J Thorac Cardiovasc Surg* 1999; 118(4):702-709.

Etienne B, Bertocchi M, et al. Successful Double-Lung transplantation for Bronchioalveolar Carcinoma. *Chest* 1997; 112(5):1423-1424.
Albertine KH, Steiner RM, et al. Analysis of Cell Type and Radiographic Presentation as Predictors of the Clinical Course of Patients with Bronchioalveolar Cell Carcinoma. *Chest* 1998; 113(4):997-1006.
Fiorella RM, Gurley SD and Dubey S. Cytologic Distinction Between Bronchioalveolar Carcinoma and Reactive/Reparative Respiratory Epithelium. A Cytomorphometric Analysis. *Diagn Cytopathol* 1998; 19(4):270-273.

Case No. 6, Accession No. 26127 September 2001

Escondido - Adenosquamous carcinoma
Glendale (Glendale Pathology Associates) - Adenocarcinoma, poorly differentiated
Irvine (UCI Medical Center Residents) - Adenocarcinoma
Loma Linda (Loma Linda University Medical Center Residents) - Mucoepidermoid carcinoma
Modesto (Yosemite Pathology Medical Group) - Poorly differentiated adenocarcinoma
San Francisco (UCSF Pathology Residents) - Mesothelioma
Tustin - Transitional cell carcinoma
Alabama (Cunningham Pathology) - Poorly differentiated adenocarcinoma
Arizona (Phoenix Memorial Hospital) - Adenocarcinoma, poorly differentiated
Arkansas (UAMS) - Large cell undifferentiated carcinoma, asbestos related
Colorado (UniPath) - Large cell undifferentiated carcinoma
Florida (Hospital Pathologists) - Mesothelioma
Florida (Munroe Regional Medical Center) - Clear cell carcinoma
Florida (Winter Haven Hospital) - Adenocarcinoma
Georgia, Decatur - Adenocarcinoma, poorly differentiated
Illinois (Marion Memorial Hospital) - Adenocarcinoma, poorly differentiated
Illinois, Skokie - Undifferentiated large cell carcinoma
Indiana, Fort Wayne - Poorly differentiated adenocarcinoma (poorly differentiated large cell carcinoma), upper lobe, right lung
Kansas (Coffeyville Regional Medical Center) - Infiltrating adenocarcinoma, lung
Kansas (University of Kansas Medical Center) - Poorly differentiated adenocarcinoma
Kentucky (University of Louisville Residents) - Poorly differentiated adenocarcinoma vs. large cell undifferentiated carcinoma
Maryland (NIH Pathology) - Moderately differentiated adenocarcinoma
Maryland (National Naval Medical Center) - Adenocarcinoma (moderately – poorly differentiated) (13)
Maryland (University of Maryland) - Adenocarcinoma
Massachusetts (Brigham and Women's Residents) - Poorly differentiated carcinoma with adenosquamous features (mesothelioma must be definitively excluded)
Michigan, East Lansing - Adenocarcinoma
Michigan (Spectrum Health) - Adenocarcinoma
Michigan (St. Joseph Mercy Hospital) - Large cell undifferentiated carcinoma (2)
Mississippi, Grenada - Large cell carcinoma
Missouri (Ferguson's Medical Laboratory) - Large cell carcinoma, favor poorly differentiated adenocarcinoma (rule out mesothelioma)
Nebraska (Good Samaritan Hospital) - Adenocarcinoma, poorly differentiated
New Jersey (NJ Dermatopathology Laboratory) - Adenocarcinoma, poorly differentiated
New York (Nassau University Medical Center Residents) - Adenocarcinoma, right lung
New York (Quest Diagnostics) - Non small cell adenocarcinoma
Ohio, Columbus - Non small cell carcinoma/ferruginous bodies
Ohio (MCO Pathology) - Adenosquamous carcinoma
Pennsylvania (Allegheny General Hospital) - Adenocarcinoma with ferruginous bodies
Pennsylvania (Conemaugh Memorial Medical Center) - Non small cell carcinoma favor squamous cell carcinoma
Pennsylvania (Memorial Medical Center) - Non small carcinoma favor squamous cell carcinoma
Pennsylvania, Sewickley - Poorly differentiated adenocarcinoma
Puerto Rico (University of Puerto Rico) - Solid adenocarcinoma with mucin production

Tennessee, Nashville - Poorly differentiated adenocarcinoma
Texas, Lubbock - Poorly differentiated adenocarcinoma
Texas, San Antonio - Adenocarcinoma
Texas (Scott & White Memorial Hospital) - Poorly differentiated adenocarcinoma with asbestos bodies
Texas (Shannon Clinic Pathology Laboratory) - Adenocarcinoma
Virginia (Shenandoah Valley Pathology Laboratory) - Adenocarcinoma vs. epithelioid mesothelioma
Washington (SW Washington Medical Center) - Adenocarcinoma, ferruginous bodies
Washington, DC - Adenocarcinoma, poorly differentiated
Wisconsin, Muskego - Poorly differentiated adenocarcinoma
Canada (CUSE Site Fleurimont) - Adenocarcinoma, NOS
Japan (Hamamatsu-shi University School of Medicine) - Poorly differentiated adenocarcinoma
Japan (Self-Defense Hospital) - Poorly differentiated adenocarcinoma
Netherlands - Adenosquamous carcinoma
Saudi Arabia (King Khalid University Hospital) - Adenocarcinoma, poorly differentiated
Spain (POVISA, Vigo) - Malignant mesothelioma vs. carcinoma and asbestos bodies

Case 6 - Diagnosis:
Poorly differentiated adenocarcinoma with asbestos/ferruginous bodies, lung
T-28000, M-81403

Case 6 - References:
Husgafvel-Pursiainen K, Karjalainen A, et al. Lung Cancer and Past Occupational Exposure to Asbestos. Role of p53 and K-ras Mutations. *Am J Respir Cell Mol Biol* 1999; 20(4):667-674.
Weiss W. Asbestosis. A Marker for the Increased Risk of Lung Cancer Among Workers Exposed to Asbestos. *Chest* 1999; 115(2); 320-322; : *Chest* 1999; 115(5):1485.
Banks DE, Wang ML and Parker JE. Asbestos Exposure, Asbestosis, and Lung Cancer. *Chest* 1999; 115(2):536-549.
Mark EJ and Shin DH. Asbestos and the Histogenesis of Lung Carcinoma. 1992; *Semin Diagn Pathol* 1992; 9(2):110-116.
Hyers TM, Ohar JM and Crim C. Clinical Controversies in Asbestos-Induced Lung Diseases. *Semin Diagn Pathol* 1992; 9(2):97-101.
Leiman G. Asbestos Bodies in Fine Needle Aspirates of Lung Masses. Markers of Underlying Pathology. *Acta Cytol* 1991; 35(2):171-174.

Case No. 7, Accession No. 28537 September 2001

Escondido - Parathyroid hyperplasia
Glendale (Glendale Pathology Associates) - Malignant thymoma
Irvine (UCI Medical Center Residents) - Thymic small cell neuroedocrine carcinoma
Loma Linda (Loma Linda University Medical Center Residents) - Small cell carcinoma
Modesto (Yosemite Pathology Medical Group) - Carcinoid
San Francisco (UCSF Pathology Residents) - Atypical thymic carcinoid
Tustin - Germ cell tumor
Alabama (Cunningham Pathology) - Lymphoblastic lymphoma
Arizona (Phoenix Memorial Hospital) - Neuroendocrine carcinoma
Arkansas (UAMS) - Thymic carcinoid
Colorado (UniPath) - Lymphoblastic lymphoma
Florida (Hospital Pathologists) - No answer
Florida (Munroe Regional Medical Center) - Atypical thymic carcinoid tumor
Florida (Winter Haven Hospital) - Atypical (malignant) carcinoid
Georgia, Decatur - Peripheral neuroectodermal tumor
Illinois (Marion Memorial Hospital) - Thymoma, atypical
Illinois, Skokie - Neuroendocrine tumor — carcinoid
Indiana, Fort Wayne - Thymic carcinoma, anterior mediastinum
Kansas (Coffeyville Regional Medical Center) - Malignant lymphoma

Kansas (University of Kansas Medical Center) - Atypical carcinoid
Kentucky (University of Louisville Residents) - Angiosarcoma
Maryland (NIH Pathology) - Thymic carcinoma vs. lymphoma vs. atypical carcinoid
Maryland (National Naval Medical Center) - Thymic carcinoma with neuroendocrine features (10); Well-differentiated neuroendocrine carcinoma (3)
Maryland (University of Maryland) - Thymic carcinoma
Massachusetts (Brigham and Women's Residents) - High grade neuroendocrine carcinoma vs. thymic carcinoma vs. PNET
Michigan, East Lansing - Lymphoblastic lymphoma
Michigan (Spectrum Health) - Small cell thymic carcinoma
Michigan (St. Joseph Mercy Hospital) - Carcinoid (2)
Mississippi, Grenada - Small cell carcinoma
Missouri (Ferguson's Medical Laboratory) - Choriocarcinoma (metastatic ?)
Nebraska (Good Samaritan Hospital) - Neuroendocrine carcinoma
New Jersey (NJ Dermatopathology Laboratory) - Thymoma, medullary
New York (Nassau University Medical Center Residents) - Malignant lymphoma vs. carcinoid tumor, anterior mediastinum
New York (Quest Diagnostics) - Mediastinal, primitive neuroectodermal tumor
Ohio, Columbus - Thymic carcinoma
Ohio (MCO Pathology) - Lymphoblastic lymphoma
Pennsylvania (Allegheny General Hospital) - Carcinoid tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Small cell carcinoma
Pennsylvania (Memorial Medical Center) - Small cell carcinoma
Pennsylvania, Sewickley - Neuroendocrine neoplasm "atypical carcinoid"
Puerto Rico (University of Puerto Rico) - Neuroendocrine carcinoma/PNET
Tennessee, Nashville - Angiosarcoma
Texas, Lubbock - Thymoma
Texas, San Antonio - Carcinoid
Texas (Scott & White Memorial Hospital) - Thymic carcinoid
Texas (Shannon Clinic Pathology Laboratory) - Thymoma, lymphocyte predominant type
Virginia (Shenandoah Valley Pathology Laboratory) - Small blue cell tumor - Ewing's/PNET vs. rhabdomyosarcoma vs. lymphoma
Washington (SW Washington Medical Center) - Well-differentiated malignant thymoma
Washington, DC - Small cell carcinoma
Wisconsin, Muskego - Malignant lymphoma
Canada (CUSE Site Fleurimont) - Thymic carcinoid
Japan (Hamamatsu-shi University School of Medicine) - Neuroblastoma
Japan (Self-Defense Hospital) - Malignant thymoma
Netherlands - Merkel cell tumor ? (markers!)
Saudi Arabia (King Khalid University Hospital) - Primitive neuroectodermal tumor (PNET)
Spain (POVISA, Vigo) - Small cell tumor (small cell carcinoma vs. germinal tumor)

Case 7 - Diagnosis:
Thymic carcinoid
T-Y2300, M-82401

Case 7 - References:

de Montpreville VT, Macchiarini P, et al. Thymic Neuroendocrine Carcinoma (Carcinoid). A Clinicopathologic Study of Fourteen Cases. *J Thorac Cardiovasc Surg* 1996; 111(1):134-141.
Herbst WM, Kummer W, Hofmann W, et al. Carcinoid Tumors of the Thymus. A Immunohistochemical Study. *Cancer* 1987; 60(10):2465-2470.
Kuo TT. Carcinoid Tumor of the Thymus with Divergent Differentiation. Report of a Case with Histogenetic Consideration. *Hum Pathol* 1994; 25(3):319-323.
Birnberg FA, Webb WR, et al. Thymic Carcinoid Tumors with Hyperparathyroidism. *AJR Am J Roentgenol* 1982; 139(5):1001-1004.
Shimosato-Y and Mukai K. Atlas of Tumor Pathology, Third Series, Fascicle 21. Tumors of the Mediastinum. *Armed Forces Institute of Pathology*. Washington, DC 1997.

Escondido - Ki-1 lymphoma
Glendale (Glendale Pathology Associates) - Anaplastic large cell lymphoma
Irvine (UCI Medical Center Residents) - Ki-1 anaplastic lymphoma
Loma Linda (Loma Linda University Medical Center Residents) - Anaplastic large cell lymphoma
Modesto (Yosemite Pathology Medical Group) - Anaplastic large cell lymphoma
San Francisco (UCSF Pathology Residents) - Anaplastic large cell lymphoma
Tustin - Anaplastic large cell lymphoma, T-cell type
Alabama (Cunningham Pathology) - Anaplastic large cell lymphoma
Arizona (Phoenix Memorial Hospital) - Anaplastic Ki-1 positive lymphoma
Arkansas (UAMS) - Anaplastic large cell lymphoma
Colorado (UniPath) - Large cell anaplastic lymphoma
Florida (Hospital Pathologists) - Anaplastic large cell lymphoma
Florida (Munroe Regional Medical Center) - Anaplastic large cell lymphoma
Florida (Winter Haven Hospital) - Seminoma
Georgia, Decatur - Anaplastic large cell lymphoma
Illinois (Marion Memorial Hospital) - Malignant lymphoma, large cell, anaplastic, T-cell
Illinois, Skokie - Anaplastic lymphoma
Indiana, Fort Wayne - Anaplastic large cell lymphoma of chest wall
Kansas (Coffeyville Regional Medical Center) - Large cell anaplastic lymphoma
Kansas (University of Kansas Medical Center) - Anaplastic large cell lymphoma
Kentucky (University of Louisville Residents) - Anaplastic large cell lymphoma
Maryland (NIH Pathology) - Anaplastic large cell lymphoma
Maryland (National Naval Medical Center) - Anaplastic large cell lymphoma (13)
Maryland (University of Maryland) - Ki-1 lymphoma/large anaplastic lymphoma
Massachusetts (Brigham and Women's Residents) - Anaplastic large cell lymphoma
Michigan, East Lansing - Anaplastic large cell lymphoma
Michigan (Spectrum Health) - Ki-1 lymphoma (large anaplastic)
Michigan (St. Joseph Mercy Hospital) - Anaplastic large cell lymphoma (2)
Mississippi, Grenada - Anaplastic large cell lymphoma
Missouri (Ferguson's Medical Laboratory) - Lymphoblastic lymphoma
Nebraska (Good Samaritan Hospital) - Large cell anaplastic lymphoma
New Jersey (NJ Dermatopathology Laboratory) - Anaplastic large cell malignant lymphoma
New York (Nassau University Medical Center Residents) - Anaplastic large cell lymphoma, T-cell type, chest wall
New York (Quest Diagnostics) - Anaplastic large cell lymphoma
Ohio, Columbus - Anaplastic lymphoma
Ohio (MCO Pathology) - Anaplastic large cell lymphoma
Pennsylvania (Allegheny General Hospital) - Anaplastic large cell lymphoma
Pennsylvania (Conemaugh Memorial Medical Center) - Anaplastic lymphoma (Ki-1 lymphoma)
Pennsylvania (Memorial Medical Center) - Anaplastic lymphoma (Ki-1 lymphoma)
Pennsylvania, Sewickley - Ki-1 + anaplastic large cell lymphoma
Puerto Rico (University of Puerto Rico) - Anaplastic large cell lymphoma
Tennessee, Nashville - Ki-1 anaplastic lymphoma
Texas, Lubbock - Anaplastic large cell lymphoma
Texas, San Antonio - Anaplastic large cell lymphoma
Texas (Scott & White Memorial Hospital) - Anaplastic large cell lymphoma
Texas (Shannon Clinic Pathology Laboratory) - Anaplastic large cell lymphoma
Virginia (Shenandoah Valley Pathology Laboratory) - Anaplastic large cell lymphoma
Washington (SW Washington Medical Center) - Ki-1 positive anaplastic large cell lymphoma
Washington, DC - Mesothelioma, epithelial
Wisconsin, Muskego - Anaplastic large cell lymphoma
Canada (CUSE Site Fleurimont) - Epithelioid sarcoma

Japan (Hamamatsu-shi University School of Medicine) - Embryonal carcinoma
Japan (Self-Defense Hospital) - Anaplastic large cell lymphoma
Netherlands - Large cell anaplastic T-cell NHL
Saudi Arabia (King Khalid University Hospital) - Anaplastic large cell lymphoma
Spain (POVISA, Vigo) - Ki-1 anaplastic lymphoma

Case 8 - Diagnosis:

Anaplastic large cell lymphoma ("Ki-1 lymphoma"), chest wall
T-Y2150, M-95903

Case 8 - References:

Kinney MC, Glick AD, Stein H, et al. Comparison of Anaplastic Large Cell Ki-1 Lymphomas and Microvillous Lymphomas in their Immunologic and Ultrastructural Features. *Am J Surg Pathol* 1990; 14(11):1047-1060.

Kinney MC, Greer JP, Glick AD, et al. Anaplastic Large-Cell Ki-1 Malignant Lymphomas. Recognition, Biological and Clinical Implications. *Pathol Annu* 1991; 26:1-24.

Bueso-Ramos CE, Pugh WC and Butler JJ. Anaplastic Large Cell Lymphoma Presenting as a Soft-Tissue Mass Mimicking Sarcoma. *Mod Pathol* 1994; 7(4):497-500.

Nakamura S, Sasajima Y, et al. Ki-1 (CD30) Positive Anaplastic Large Cell Lymphoma of T-Cell Phenotype Developing in Association with Long-Standing Tuberculous Pyothorax. Report of a Case with Detection of Epstein-Barr Virus Genome in the Tumor Cells. *Hum Pathol* 1995; 26(12):1382-1385.

Mann KP, Hall B, et al. Neutrophil-Rich, Ki-1 Positive Anaplastic Large Cell Malignant Lymphoma. *Am J Surg Pathol* 1999; 23(2):244-246.

Case No. 9, Accession No. 29187 September 2001

Escondido - Spindle cell carcinoid
Glendale (Glendale Pathology Associates) - High grade sarcoma
Irvine (UCI Medical Center Residents) - Low grade spindle cell sarcoma favor hemangiopericytoma
Loma Linda (Loma Linda University Medical Center Residents) - Fibrous histiocytoma
Modesto (Yosemite Pathology Medical Group) - Fibrosarcoma
San Francisco (UCSF Pathology Residents) - Intraparenchymal solitary fibrous tumor
Tustin - Fibrosarcoma
Alabama (Cunningham Pathology) - Fibrosarcoma
Arizona (Phoenix Memorial Hospital) - Leiomyosarcoma
Arkansas (UAMS) - Hemangiopericytoma
Colorado (UniPath) - Hemangiopericytoma
Florida (Hospital Pathologists) - Hemangiosarcoma
Florida (Munroe Regional Medical Center) - Sarcoma
Florida (Winter Haven Hospital) - Sarcoma
Georgia, Decatur - Malignant solitary fibrous tumor
Illinois (Marion Memorial Hospital) - Spindle cell sarcoma
Illinois, Skokie - Leiomyosarcoma
Indiana, Fort Wayne - Sarcoma, NOS, right upper lobe of lung (favor fibrosarcoma)
Kansas (Coffeyville Regional Medical Center) - Sarcoma
Kansas (University of Kansas Medical Center) - Spindle cell sarcoma
Kentucky (University of Louisville Residents) - Sarcoma, NOS vs. atypical carcinoid
Maryland (NIH Pathology) - Hemangiopericytoma
Maryland (National Naval Medical Center) - Hemangiopericytoma (10); Monophasic synovial sarcoma (3)
Maryland (University of Maryland) - Spindle cell carcinoid
Massachusetts (Brigham and Women's Residents) - Spindle cell neoplasm (favor monophasic synovial sarcoma)
Michigan, East Lansing - Spindle cell carcioid tumor
Michigan (Spectrum Health) - Low grade sarcoma
Michigan (St. Joseph Mercy Hospital) - Fibrosarcoma (1); Malignant solitary fibrous tumor (1)

Mississippi, Grenada - Sarcoma — 1° vs. 2° (? neurogenic)
Missouri (Ferguson's Medical Laboratory) - Fibrosarcoma
Nebraska (Good Samaritan Hospital) - Spindle cell neoplasm, favor fibrosarcoma
New Jersey (NJ Dermatopathology Laboratory) - Leiomyocarcinoma
New York (Nassau University Medical Center Residents) - Malignant spindle cell tumor, favor leiomyosarcoma, right lung
New York (Quest Diagnostics) - Spindle cell malignancy - favor sarcoma
Ohio, Columbus - Malignant spindle cell tumor
Ohio (MCO Pathology) - Malignant fibrous histiocytoma vs. monophasic synovial sarcoma
Pennsylvania (Allegheny General Hospital) - Spindle cell carcinoid
Pennsylvania (Conemaugh Memorial Medical Center) - Sarcoma, NOS
Pennsylvania (Memorial Medical Center) - Sarcoma, NOS
Pennsylvania, Sewickley - Sclerosing hemangioma, solid variant
Puerto Rico (University of Puerto Rico) - Malignant solitary fibrous tumor
Tennessee, Nashville - Malignant spindle cell sarcoma favor malignant peripheral nerve sheath tumor
Texas, Lubbock - Stromal sarcoma
Texas, San Antonio - Hemangiopericytoma
Texas (Scott & White Memorial Hospital) - Sarcoma, NOS
Texas (Shannon Clinic Pathology Laboratory) - Low grade sarcoma
Virginia (Shenandoah Valley Pathology Laboratory) - Leiomyosarcoma
Washington (SW Washington Medical Center) - Hemangiopericytoma
Washington, DC - Leiomyosarcoma
Wisconsin, Muskego - Low grade sarcoma
Canada (CUSE Site Fleurimont) - Hemangiopericytoma
Japan (Hamamatsu-shi University School of Medicine) - Intrapulmonary fibrous tumor
Japan (Self-Defense Hospital) - Fibrosarcoma
Netherlands - Carcinoid ?
Saudi Arabia (King Khalid University Hospital) - Sarcoma, malignant peripheral nerve sheath tumor (3); Monophasic synovial sarcoma (3)
Spain (POVISA, Vigo) - Sarcoma

Case 9 – Diagnosis:
Spindle cell sarcoma (NOS), lung
T-28000, M-88013

Case 9 - References:

Suster S. Primary Sarcomas of the Lung. *Semin Diagn Pathol* 1995; 12(2):140-157.
Zeren H, Moran CA, et al. Primary Pulmonary Sarcomas with Features of Monophasic Synovial Sarcoma. A Clinicopathological, Immunohistochemical, and Ultrastructural Study of 25 Cases. *Hum Pathol* 1995; 26(5):474-480.
Attanoos RL, Appleton MA, et al. Primary Sarcomas of the Lung. A Clinicopathological and Immunohistochemical Study of 14 Cases. *Histopathol* 1996; 29(1):29-36.
Kaplan MA, Goodman MD, et al. Primary Pulmonary Sarcoma with Morphologic Features of Monophasic Synovial Sarcoma and Chromosome Translocation t(X;18). *Am J Clin Pathol* 1996; 105(2):195-199.
Keel SB, Bacha E, et al. Primary Pulmonary Sarcoma. A Clinicopathologic Study of 26 Cases. *Mod Pathol* 1999; 12(12):1124-1131.

Case No. 10, Accession No. 28865 September 2001

Escondido - Malignant fibrous histiocytoma
Glendale (Glendale Pathology Associates) - Pleomorphic sarcoma, leiomyosarcoma vs. rhabdomyosarcoma
Irvine (UCI Medical Center Residents) - Malignant fibrous histiocytoma (pleomorphic)
Loma Linda (Loma Linda University Medical Center Residents) - High grade sarcoma with malignant fibrous histiocytoma features
Modesto (Yosemite Pathology Medical Group) - Malignant fibrous histiocytoma
San Francisco (UCSF Pathology Residents) - High grade sarcoma (MFH)

Tustin - Malignant fibrous histiocytoma
Alabama (Cunningham Pathology) - Malignant fibrous histiocytoma
Arizona (Phoenix Memorial Hospital) - Undifferentiated sarcoma
Arkansas (UAMS) - Malignant fibrous histiocytoma
Colorado (UniPath) - Malignant fibrous histiocytoma
Florida (Hospital Pathologists) - Sarcoma, NOS; Malignant fibrous histiocytoma
Florida (Munroe Regional Medical Center) - Malignant fibrous histiocytoma
Florida (Winter Haven Hospital) - Malignant fibrous histiocytoma
Georgia, Decatur - Leiomyosarcoma vs. malignant fibrous histiocytoma
Illinois (Marion Memorial Hospital) - Malignant fibrous histiocytoma
Illinois, Skokie - Malignant fibrous histiocytoma
Indiana, Fort Wayne - Malignant fibrous histiocytoma, soft tissue of chest wall
Kansas (Coffeyville Regional Medical Center) - Sarcoma
Kansas (University of Kansas Medical Center) - Malignant fibrous histiocytoma
Kentucky (University of Louisville Residents) - Malignant fibrous histiocytoma
Maryland (NIH Pathology) - Malignant fibrous histiocytoma
Maryland (National Naval Medical Center) - Malignant fibrous histiocytoma, pleomorphic
Maryland (University of Maryland) - Malignant fibrous histiocytoma
Massachusetts (Brigham and Women's Residents) - Pleomorphic malignant neoplasm (favor pleomorphic sarcoma, NOS vs. leiomyosarcoma vs. carcinoma vs. melanoma)
Michigan, East Lansing - Malignant fibrous histiocytoma
Michigan (Spectrum Health) - High grade sarcoma
Michigan (St. Joseph Mercy Hospital) - Malignant fibrous histiocytoma (2)
Mississippi, Grenada - Pleomorphic sarcoma (malignant fibrous histiocytoma) rule out pseudosarcomatous carcinoma
Missouri (Ferguson's Medical Laboratory) - Spindle giant cell tumor favor malignant fibrous histiocytoma
Nebraska (Good Samaritan Hospital) - Malignant fibrous histioctyoma
New Jersey (NJ Dermatopathology Laboratory) - Malignant fibrous histiocytoma
New York (Nassau University Medical Center Residents) - Pleomorphic malignant fibrous histioctyoma, chest wall
New York (Quest Diagnostics) - Malignant fibrous histiocytoma
Ohio, Columbus - Pleomorphic sarcoma
Ohio (MCO Pathology) - Malignant fibrous histiocytoma
Pennsylvania (Allegheny General Hospital) - Sarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Malignant fibrous histiocytoma
Pennsylvania (Memorial Medical Center) - Malignant fibrous histioctyoma
Pennsylvania, Sewickley - Sarcomatoid carcinoma
Puerto Rico (University of Puerto Rico) - Malignant fibrous histiocytoma
Tennessee, Nashville - Poorly differentiated sarcoma favor malignant fibrous histiocytoma - additional stains to rule out melanoma
Texas, Lubbock - Malignant fibrous histiocytoma
Texas, San Antonio - Malignant fibrous histiocytoma
Texas (Scott & White Memorial Hospital) - Malignant fibrous histiocytoma
Texas (Shannon Clinic Pathology Laboratory) - High grade sarcoma
Virginia (Shenandoah Valley Pathology Laboratory) - Malignant fibrous histiocytoma
Washington (SW Washington Medical Center) - Malignant fibrous histiocytoma
Washington, DC - Malignant fibrous histiocytoma
Wisconsin, Muskego - High grade sarcoma
Canada (CUSE Site Fleurimont) - Malignant fibrous histiocytoma
Japan (Hamamatsu-shi University School of Medicine) - Malignant fibrous histiocytoma
Japan (Self-Defense Hospital) - Malignant fibrous histiocytoma
Netherlands - Malignant fibrous histiocytoma/melanoma? (markers)
Saudi Arabia (King Khalid University Hospital) - Pleomorphic spindle cell sarcoma, malignant fibrous histiocytoma (3); Malignant peripheral nerve sheath tumor (1); Leiomyosarcoma (1)
Spain (POVISA, Vigo) - Pleomorphic sarcoma (leiomyosarcoma vs. malignant fibrous histiocytoma)

Case 10 - Diagnosis:

Pleomorphic sarcoma with phenotype of so-called MFH, chest wall

T-Y2100, M-88023

Case 10 - References:

Myoui A Aozasa K, Luchi K, et al. Soft Tissue Sarcoma of the Pleural Cavity. *Cancer* 1991; 68(7):1550-1554.

Yousem SA and Hochholzer L. Malignant Fibrous Histiocytoma of the Lung. *Cancer* 1987; 60(10):2532-2541.

King RM, Pairolero PC, Trastek VF, et al. Primary Chest Wall Tumors. Factors Affecting Survival. *Ann Thorac Surg* 1986; 41(6):597-601.

England DM, Hochholzer L and McCarthy MJ. Localized Benign and Malignant Fibrous Tumors of the Pleura. A Clinicopathologic Review of 223 Cases. *Am J Surg Pathol* 1989; 13:640-658.

Gellister J, Da Costa PE, et al. Malignant Fibrous Histiocytoma in Thoracic Surgical Practice. *J Thorac Cardiovasc Surg* 1986; 91(2):234-237.

Fletcher CD, Dal Cin P, et al. Correlation Between Clinicopathological Features and Karyotype in Spindle Cell Sarcomas. A Report of 130 Cases from the CHAMP Study Group. *Am J Pathol* 1999; 154(6):1841-1847.