



CALIFORNIA
TUMOR TISSUE REGISTRY

“TUMORS OF THE LUNG”

Minutes – Subscription B

January, 2005



SUGGESTED READING (General Topics from Recent Literature):

Profound Hypothyroidism – A Clinical Review With Eight Recent Cases: Is It Right Before Our Eyes? Felz MW, Forren AC. So Med J 2004 May; 97(5):490-8.

What's New In Otolaryngology – Head And Neck Surgery. Weissler MC, Scharer S. J Am Coll Surg, 2004 Jul; 199(1):114-23.

Cytogenetic And Molecular Cytogenetic Techniques In Orthopaedic Surgery. Bridge JA. J Bone & Joint Surg, 1993 Apr; 75-A(4):606-14.

Ductal Carcinoma In-Situ, Complexities And Challenges. Leonard GD, Swain SW. J Nat Cancer Institute, 2004 Jun 16; 96(12):906-20.

Use Of Proteomic Patterns To Screen For Gastrointestinal Malignancies. Feldman AL, Espina V, Petricoin EF, et al. Surgery, 2004 Mar; 135(3):243-47.

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FILE DIAGNOSES

(Preferably submitted on website at www.cttr.org. Click “subscriptions”, then “submit answers”.)

CTTR Subscription B

January, 2005

Case 1:

**Congenital (cystic) adenomatoid malformation, lung
T-28000, M-26720**

Case 2:

**Papillary adenoma, lung
T-28000, M-8260/0**

Case 3:

**Neurofibroma, lung
T-28000, M-9540/0**

Case 4:

**Malignant neoplasm, favor neuroendocrine carcinoma, lung
T-28000, M-8041/3**

Case 5:

**Mucinous bronchioloalveolar carcinoma, lung
T-28000, M-8250/3**

Case 6:

**Well-differentiated fetal adenocarcinoma (monophasic subtype of pulmonary blastoma), lung
T-28000, M-8140/3**

Case 7:

**Malignant teratoma, mediastinum
T-Y2300, M-9080/3**

Case 8:

**High grade pleomorphic sarcoma with phenotype of so-called malignant fibrous histiocytoma,
lung
T-28000, M-8802/3**

Case 9:

**Mesothelioma, lung
T-28000, M-9050/3**

Case 10:

**Metastatic follicular carcinoma, lung
T-28000, M-8330/6**

Escondido - Extralobar sequestration
Glendale - Cystic adenomatoid malformation
Granada Hills - Pulmonary endodermal tumor
Orange (UCI Medical Center Residents) - Extralobar sequestration
Sacramento (U.C. Davis Medical Center) - Congenital pulmonary airway malformation
San Francisco (San Francisco General Hospital) - Congenital cystic adenomatous malformation, type 3
Arizona, Phoenix - Congenital pulmonary airway malformation, with mucinous cells
Arkansas (University of Arkansas Medical Center) - Extralobar bronchopulmonary sequestration
Colorado, Denver - Bronchial hamartoma
Florida (Winter Haven Hospital) - Extralobar bronchopulmonary sequestration (1); Congenital adenomatoid formation (1)
Georgia, Decatur - Congenital cystic adenomatoid malformation
Illinois (Heartland Regional Medical Center) - Extralobar pulmonary sequestration with features of CCAM
Kansas (Coffeyville Regional Medical Center) - Congenital cystic adenomatoid malformation of lung
Kansas, Manhattan - Bronchopulmonary sequestration (extralobar)
Kentucky (University of Louisville Hospital) - CCAM, type II
Maryland (Johns Hopkins Residents) - Congenital pulmonary adenomatoid malformation (CPAM), type III, with mucinous metaplasia
Maryland (National Naval Medical Center) - Congenital cystic disease (12); Extralobar pulmonary sequestration (1)
Maryland (University of Maryland) - Type II congenital adenomatoid malformation
Michigan (Henry Ford Hospital Residents) - Cystic adenomatoid malformation
Minnesota (University of Minnesota Residents) - Cystic adenomatoid malformation
New York (Nassau University Medical Center) - Cystic adenomatoid transformation
New York (State University of New York at Stony Brook) - Extralobar bronchopulmonary sequestration with cystic adenomatoid transformation
New York (Westchester Medical Center) - Congenital cystic adenomatoid malformation in extralobar sequestration
North Carolina (Wake Forest University School of Medicine) - Congenital cystic adenomatoid malformation, type II
North Carolina, Fayetteville - Congenital cystic adenomatoid malformation
Ohio (Medical College of Ohio) - Cystic adenomatoid malformation
Pennsylvania (Allegheny General Hospital) - Congenital cystic adenomatoid malformation
Pennsylvania (Conemaugh Memorial Medical Center) - Congenital pulmonary airway malformation
Pennsylvania (Drexel University College of Medicine) - Sequestration of lung
Texas (Scott & White Memorial Hospital) - Extralobar sequestration
Texas, Lubbock - Type III congenital adenomatoid malformation
Texas, Sugarland - Congenital cystic adenomatoid malformation
Washington, D.C. - Fetal lung, anomalous
Canada (Woodstock General Hospital) - Supranumery lung
China (Sir Run Run Shaw Hospital) - Cystic adenomatoid transformation
Germany, Hamburg - Cystic adenomatoid transformation
Italy, Naples - Congenital cystic adenomatoid malformation, type III
Japan (Asahi General Hospital) - Pulmonary sequestration, extralobar, lung
Japan (Hamamatsu University School of Medicine) - Congenital cystic adenomatoid malformation, type III
Japan (Gunma University Hospital) - Cystic congenital adenomatoid malformation
Puerto Rico (University of Puerto Rico) - Congenital cystic adenomatoid malformation (congenital pulmonary airway malformation)
Qatar, Doha - Congenital cystic adenomatoid malformation, Type III
Spain (Povisa) - Congenital adenomatoid malformation
The Netherlands, Amstelveen - Lung sequestration

Case 1 - Diagnosis:**Congenital (cystic) adenomatoid malformation, lung****T-28000, M-26720****Case 1 - References:**

- Chaudhry AK, Azam M, Maqsood R, et al: Congenital Cystic Adenomatoid Malformation. *J Coll Physicians Surg Pak*, 2003 Jun; 13(6):345-6.
- Horak E, Bodner J, Gassner I, et al: Congenital Cystic Lung Disease: Diagnostic And Therapeutic Considerations. *Clin Pediatr (Phila)*, 2003 Apr; 42(3):251-61. Review.
- Hata N, Wada T, Chiba T, et al: Three-Dimensional Volume Rendering Of Fetal MR Images For The Diagnosis Of Congenital Cystic Adenomatoid Malformation. *Acad Radiol*, 2003 Mar; 10(3):309-12.

Albanese CT, Sydorak RM, Tsao K, Lee H: Thoracoscopic Lobectomy For Prenatally Diagnosed Lung Lesions. *J Pediatr Surg*, 2003 Apr; 38(4):553-5. Review.
 Heling KS, Tennstedt C, Chaoui R: Unusual Case Of A Fetus With Congenital Cystic Adenomatoid Malformation Of The Lung Associated With Trisomy 13. *Prenat Diagn*, 2003 Apr; 23(4):315-8.
 Breyssem L, Bosmans H, Dymarkowski S, et al: The Value Of Fast MR Imaging As An Adjunct To Ultrasound In Prenatal Diagnosis. *Eur Radiol*, 2003 Jul; 13(7):1538-48.

Case No. 2 Accession No. 15257

January, 2005

Escondido - Papillary adenocarcinoma, Clear cell type
Glendale - Sclerosing hemangioma
Granada Hills - Sclerosing hemangioma, papillary pattern
Orange (UCI Medical Center Residents) - (1) Papillary adenoma; (2) Sclerosing hemangioma
Sacramento (U.C. Davis Medical Center) - Papillary adenoma of type II cells
San Francisco (San Francisco General Hospital) - Sclerosing hemangioma
Arizona, Phoenix - Bronchioloalveolar carcinoma
Arkansas (University of Arkansas Medical Center) - Sclerosing hemangioma
Colorado, Denver - Bronchial hamartoma
Florida (Winter Haven Hospital) - Papillary bronchioalveolar adenoma; (1) Metastatic papillary carcinoma of thyroid (1)
Georgia, Decatur - Sclerosing hemangioma
Illinois (Heartland Regional Medical Center) - Benign papillary neoplasm (papillary adenoma vs sclerosing hemangioma)
Kansas (Coffeyville Regional Medical Center) - Papillary adenoma of Type 2 pneumocytes
Kansas, Manhattan - Papillary adenoma
Kentucky (University of Louisville Hospital) - Sclerosing hemangioma versus papillary adenoma
Maryland (Johns Hopkins Residents) - Pneumocytoma (so-called sclerosing hemangioma)
Maryland (National Naval Medical Center) - Sclerosing hemangioma
Maryland (University of Maryland) - Sclerosing hemangioma
Michigan (Henry Ford Hospital Residents) - Papillary adenoma of type 2 pneumocytes
Minnesota (University of Minnesota Residents) - Sclerosing hemangioma
New York (Nassau University Medical Center) - So-called sclerosing hemangioma
New York (State University of New York at Stony Brook) - Sclerosing hemangioma. Note: The fixation pigment is from Zenker fixative
New York (Westchester Medical Center) - Papillary adenoma
North Carolina (Wake Forest University School of Medicine) - Papillary adenoma
North Carolina, Fayetteville - Sclerosing hemangioma
Ohio (Medical College of Ohio) - Sclerosing hemangioma
Pennsylvania (Allegheny General Hospital) - Sclerosing hemangioma
Pennsylvania (Conemaugh Memorial Medical Center) - Papillary sclerosing hemangioma
Pennsylvania (Drexel University College of Medicine) - Sclerosing hemangioma
Texas (Scott & White Memorial Hospital) - Papillary adenoma
Texas, Lubbock - Sclerosing hemangioma
Texas, Sugarland - Sclerosing hemangioma
Washington, D.C. - Papillary tumor, type 2 pneumocyte, favor benign
Canada (Woodstock General Hospital) - Papillary adenocarcinoma, lung
China (Sir Run Run Shaw Hospital) - Sclerosing hemangioma, papillary pattern
Germany, Hamburg - Papillary adenoma
Italy, Naples - Sclerosing hemangioma
Japan (Asahi General Hospital) - Bronchioalveolar cell adenoma, lung
Japan (Hamamatsu University School of Medicine) - Sclerosing hemangioma
Japan (Gunma University Hospital) - Sclerosing hemangioma of lung
Puerto Rico (University of Puerto Rico) - Sclerosing hemangioma
Qatar, Doha - Benign neoplasm, probably bronchial gland adenoma
Spain (Povisa) - Papillary adenoma
The Netherlands, Amstelveen - Sclerosing pneumocytoma

Case 2 - Diagnosis:

Papillary adenoma, lung
T-28000, M-8260/0

Case 2 - References:

- Maria DA, Manenti G, Galbiati F, et al: Pulmonary Adenoma Susceptibility 1 (Pas1) Locus Affects Inflammatory Response. *Oncogene*, 2003 Jan 23; 22(3):426-32.
- Ang KL, Dhannapuneni VR, Morgan WE, Soomro IN: Primary Pulmonary Pleomorphic Adenoma: An Immunohistochemical Study And Review Of The Literature. *Arch Pathol Lab Med*, 2003 May; 127(5):621-2. Review.
- Mori M, Chiba R, Tezuka F, et al: Papillary Adenoma Of Type II Pneumocytes Might Have Malignant Potential. *Virchows Arch*, 1996 Jun; 428(3):195-200.
- Clark JC, Tichelaar JW, Wert SE, et al: FGF-10 Disrupts Lung Morphogenesis And Causes Pulmonary Adenomas In Vivo. *Am J Physiol Lung Cell Mol Physiol*, 2001 Apr; 280(4):L705-15.
- Kaplan MA, Tazelaar HD, Hayashi T, et al: Adenomatoid Tumors Of The Pleura. *Am J Surg Pathol*, 1996 Oct; 20(10):1219-23.

Case No. 3 Accession No. 7840

January, 2005

Escondido - Neurofibroma
Glendale - Neurofibroma
Granada Hills - Ganglioneuroma
Orange (UCI Medical Center Residents) - Collagenous neurofibroma
Sacramento (U.C. Davis Medical Center) - Peripheral nerve sheath tumor
San Francisco (San Francisco General Hospital) - Heart muscle
Arizona, Phoenix - Benign peripheral nerve sheath tumor
Arkansas (University of Arkansas Medical Center) - Neurofibroma
Colorado, Denver - Leiomyoma of low malignant potential
Florida (Winter Haven Hospital) - Neurofibroma (2)
Georgia, Decatur - Rhabdomyoma
Illinois (Heartland Regional Medical Center) - Leiomyoma
Kansas (Coffeyville Regional Medical Center) - Ectopic skeletal muscle, lung
Kansas, Manhattan - Rhabdomyoma
Kentucky (University of Louisville Hospital) - Neurofibroma
Maryland (Johns Hopkins Residents) - Neural hamartoma
Maryland (National Naval Medical Center) - Neurofibroma
Maryland (University of Maryland) - Granular cell tumor (do S-100 immunostain)
Michigan (Henry Ford Hospital Residents) - Rhabdomyoma, myxoid type
New York (Nassau University Medical Center) - Neurofibroma
New York (State University of New York at Stony Brook) - Neurofibroma
New York (Westchester Medical Center) - Neurofibroma or schwannoma
North Carolina (Wake Forest University School of Medicine) - Hamartoma
North Carolina, Fayetteville - Schwannoma
Ohio (Medical College of Ohio) - Leiomyoma
Pennsylvania (Allegheny General Hospital) - Neurofibroma
Pennsylvania (Conemaugh Memorial Medical Center) - Hamartoma
Pennsylvania (Drexel University College of Medicine) Neurofibroma
Texas (Scott & White Memorial Hospital) - Rhabdomyoma
Texas, Lubbock - Granular cell tumor
Texas, Sugarland - Neurofibroma
Washington, D.C. - Leiomyoma (hamartoma)
Canada (Woodstock General Hospital) - Leiomyomatous hamartoma versus leiomyoma
China (Sir Run Run Shaw Hospital) - Hyalinizing granuloma
Germany, Hamburg - Neuronal tumor with myxoid degeneration (perineuroma)
Italy, Naples - Intramuscular lipoma
Japan (Asahi General Hospital) - Perineuroma, lung
Japan (Hamamatsu University School of Medicine) - Neurofibroma
Japan (Gunma University Hospital) - Neurofibroma
Puerto Rico (University of Puerto Rico) - Neurofibroma
Qatar, Doha - Rhabdomyoma
Spain (Povisa) - Benign tumor of peripheral nerves (neurofibroma)
The Netherlands, Amstelveen - Benign mesenchymal tumor

CASE 3 - Diagnosis:

Neurofibroma, lung

T-28000, M-9540/0

Case 3 - References:

- Mahapatro RC, Bhavthankar AG, Kolhatkar MK: Neurofibroma Of Lung. *J Indian Med Assoc*, 1976 Oct 16; 67(8):182-4.
- Madewell JE, Feigin DS: Benign Tumors Of The Lung. *Semin Roentgenol*, 1977 Jul; 12(3):175-86. Review.
- Tillmann T, Kamino K, Dasenbrock C, et al: Quality Control Of Three Methods For Lung Tumorigenesis Studies. *Exp Toxicol Pathol*, 1999 Jan; 51(1):99-104.
- Batori M, Lazzaro M, Lonardo MT, et al: A Rare Case Of Pulmonary Neurofibroma: Clinical And Diagnostic Evaluation And Surgical Treatment. *Eur Rev Med Pharmacol Sci*, 1999 Jul-Aug; 3(4):155-7.
- Miyamoto K: Pulmonary Manifestations In Von Recklinghausen's Disease. *Intern Med*, 1997 Jun; 36(6):381. Review.
- Kamiyoshihara M, Hirai T, Kawashima O, Morishita Y: Primary Solitary Neurofibroma Of The Chest Wall: Report Of A Case Resected With Video-Assisted Thorascopic Surgery. *Kyobu Geka*, 1997 May; 50(5):421-3.

Case No. 4 Accession No. 17914

January, 2005

- Escondido - Plasmacytoma
- Glendale - Ewing's/PNET
- Granada Hills - Squamous cell carcinoma, small cell type
- Orange (UCI Medical Center Residents) - Papillary adenocarcinoma of lung
- Sacramento (U.C. Davis Medical Center) - Atypical carcinoid versus sclerosing hemangioma
- San Francisco (San Francisco General Hospital) - Monophasic synovial sarcoma
- Arizona, Phoenix - Neuroendocrine carcinoma, Grade II
- Colorado, Denver - Neuroendocrine carcinoma
- Florida (Winter Haven Hospital) - Alveolar rhabdomyosarcoma (1); Sclerosing hemangioma (1)
- Georgia, Decatur - Papillary carcinoma, rule out metastasis
- Illinois (Heartland Regional Medical Center) - Poorly-differentiated malignant neoplasm (synovial sarcoma vs pulmonary blastoma)
- Kansas (Coffeyville Regional Medical Center) - Atypical carcinoid tumor
- Kansas, Manhattan - Synovial sarcoma
- Kentucky (University of Louisville Hospital) - Pulmonary thymoma
- Maryland (Johns Hopkins Residents) - Giant carcinoid
- Maryland (National Naval Medical Center) - Intrapulmonary thymoma (5); Synovial sarcoma (3); Pleuropulmonary blastoma (2)
- Maryland (University of Maryland) - Probable metastasis; rule out alveolar soft part sarcoma vs desmoplastic round cell tumor
- Michigan (Henry Ford Hospital Residents) - Bronchioloalveolar adenocarcinoma, non-mucinous type
- Minnesota (University of Minnesota Residents) - Synovial sarcoma
- New York (Nassau University Medical Center) - Adenocarcinoma, papillary
- New York (State University of New York at Stony Brook) - Papillary carcinoma, otherwise classified
- New York (Westchester Medical Center) - Micropapillary carcinoma
- North Carolina (Wake Forest University School of Medicine) - Monophasic synovial sarcoma
- North Carolina, Fayetteville - Adenocarcinoma
- Ohio (Medical College of Ohio) - Carcinoid tumor
- Pennsylvania (Allegheny General Hospital) - Papillary adenocarcinoma
- Pennsylvania (Conemaugh Memorial Medical Center) - Monophasic synovial sarcoma
- Pennsylvania (Drexel University College of Medicine) - Monophasic synovial sarcoma of lung
- Texas (Scott & White Memorial Hospital) - Sclerosing hemangioma
- Texas, Lubbock - Synovial sarcoma
- Texas, Sugarland - Papillary adenocarcinoma
- Washington, D.C. - Small cell carcinoma
- Canada (Woodstock General Hospital) - Malignant epithelioid neoplasm, NOS, lung
- China (Sir Run Run Shaw Hospital) - Spindle cell carcinoma
- Germany, Hamburg - Peripheral carcinoid tumor
- Italy, Naples - Carcinoid tumor
- Japan (Asahi General Hospital) - Primitive neuroectodermal tumor, lung
- Japan (Hamamatsu University School of Medicine) - Atypical carcinoid tumor
- Japan (Gunma University Hospital) - Poorly-differentiated carcinoma
- Puerto Rico (University of Puerto Rico) - Carcinoma
- Qatar, Doha - Sclerosing hemangioma

Spain (Povisa) - Primitive neuroectodermal tumor
The Netherlands, Amstelveen - Large cell neuroendocrine carcinoma

Case 4 - Diagnosis:

**Malignant neoplasm, favor neuroendocrine carcinoma, lung
T-28000, M-8041/3**

Case 4 - References:

Zakowski MF: Pathology Of Small Cell Carcinoma Of The Lung. *Semin Oncol*, 2003 Feb; 30(1):3-8.
Cerilli LA, Ritter JH, Mills SE, Wick MR: Neuroendocrine Neoplasms Of The Lung. *Am J Clin Pathol*, 2001 Dec; 116 Suppl, pS65-96.
Junker K, Wiethage T, Muller KM: Pathology Of Small Cell Lung Cancer. *J Cancer Res Clin Oncol*, 2000 Jul; 126(7):361-8.
Rainosek DE, Ro JY, Ordonez NG, et al: Sarcomatoid Carcinoma Of The Lung: A Case With Atypical Carcinoid And Rhabdomyosarcomatous Components. *Am J Clin Pathol*, 1994 Sep; 102(3):360-4. Review.

Case No. 5 Accession No. 29737

January, 2005

Escondido - Bronchioloalveolar carcinoma
Glendale - Bronchioloalveolar carcinoma, mucinous type
Granada Hills - Bronchioalveolar carcinoma, mucinous type
Orange (UCI Medical Center Residents) - Bronchioloalveolar carcinoma, mucinous type
Sacramento (U.C. Davis Medical Center) - Mucinous BAC
San Francisco (San Francisco General Hospital) - Broncho-alveolar carcinoma, mucinous type
Arizona, Phoenix - Mucinous ("colloid") adenocarcinoma
Arkansas (University of Arkansas Medical Center) - Bronchioloalveolar cell carcinoma, mucinous type
Colorado, Denver - Goblet cell adenocarcinoma
Florida (Winter Haven Hospital) - Mucinous adenoma (1); Bronchioloalveolar carcinoma (1)
Georgia, Decatur - Mucinous adenocarcinoma
Illinois (Heartland Regional Medical Center) - Mucinous bronchioloalveolar adenocarcinoma
Kansas (Coffeyville Regional Medical Center) - Mucinous bronchioloalveolar carcinoma
Kansas, Manhattan - Mucinous cystadenocarcinoma
Kentucky (University of Louisville Hospital) - Bronchioalveolar carcinoma, mucinous
Maryland (Johns Hopkins Residents) - Adenocarcinoma arising in a mucinous bronchioloalveolar carcinoma (BAC)
Maryland (National Naval Medical Center) - Adenocarcinoma with bronchioloalveolar features (10); Mucinous bronchioloalveolar carcinoma (2)
Maryland (University of Maryland) - Bronchoalveolar carcinoma, mucinous type
Michigan (Henry Ford Hospital Residents) - Bronchioloalveolar adenocarcinoma, mucinous
Minnesota (University of Minnesota Residents) - Mucinous BAC
New York (Nassau University Medical Center) - Bronchioalveolar carcinoma
New York (State University of New York at Stony Brook) - Bronchioloalveolar carcinoma
New York (Westchester Medical Center) - Bronchioloalveolar carcinoma
North Carolina (Wake Forest University School of Medicine) - Bronchioalveolar carcinoma, mucinous type
North Carolina, Fayetteville - Adenocarcinoma
Ohio (Medical College of Ohio) - Bronchoalveolar carcinoma
Pennsylvania (Allegheny General Hospital) - Bronchioloalveolar carcinoma (mucinous type)
Pennsylvania (Conemaugh Memorial Medical Center) - Bronchoalveolar carcinoma, mucinous
Pennsylvania (Drexel University College of Medicine) - Mucinous (colloid) bronchoalveolar carcinoma
Texas (Scott & White Memorial Hospital) - Mucinous bronchioloalveolar carcinoma
Texas, Lubbock - Bronchioloalveolar carcinoma
Texas, Sugarland - Mucinous adenocarcinoma
Washington, D.C. - Bronchioloalveolar carcinoma, goblet cell type
Canada (Woodstock General Hospital) - Bronchioloalveolar carcinoma, goblet cell type, lung
China (Sir Run Run Shaw Hospital) - Bronchioloalveolar carcinoma
Germany, Hamburg - Bronchoalveolar carcinoma (mucinous type)
Italy, Naples - Mucinous bronchioloalveolar carcinoma
Japan (Asahi General Hospital) - Bronchioalveolar carcinoma, mucinous type, lung
Japan (Hamamatsu University School of Medicine) - Bronchioloalveolar carcinoma, mucinous
Japan (Gunma University Hospital) - Bronchoalveolar carcinoma
Puerto Rico (University of Puerto Rico) - Bronchioloalveolar carcinoma, mucinous type

Qatar, Doha - Bronchioloalveolar carcinoma, mucinous
Spain (Povisa) - Mucinous bronchioloalveolar carcinoma
The Netherlands, Amstelveen - Bronchoalveolar adenocarcinoma

Case 5 - Diagnosis:

**Mucinous bronchioloalveolar carcinoma, lung
T-28000, M-8250/3**

Case 5 - References:

Kishi K, Homma S, Kurosaki A, et al: Multiple Atypical Adenomatous Hyperplasia With Synchronous Multiple Primary Bronchioloalveolar Carcinomas. *Intern Med*, 2002 Jun; 41(6):474-7.
Copin MC, Buisine MP, Leteurtre E, et al: Mucinous Bronchioloalveolar Carcinomas Display A Specific Pattern Of Mucin Gene Expression Among Primary Lung Adenocarcinomas. *Hum Pathol*, 2001 Mar; 32(3):274-81.
Honda T, Ota H, Ishii K, et al: Mucinous Bronchioloalveolar Carcinoma With Organoid Differentiation Simulating The Pyloric Mucosa Of The Stomach: Clinicopathologic, Histochemical And Immunohistochemical Analysis. *Am J Clin Pathol*, 1998 Apr; 109(4):423-30.
Axiotis CA, Jennings TA: Observations On Bronchiolo-Alveolar Carcinomas With Special Emphasis On Localized Lesions. A Clinicopathological, Ultrastructural, And Immunohistochemical Study Of 11 Cases. *Am J Surg Pathol*, 1998 Dec; 12(12):918-31.

Case No. 6 Accession No. 29714

January, 2005

Escondido - Fetal adenocarcinoma
Glendale - Well-differentiated fetal adenocarcinoma
Granada Hills - Well-differentiated adenocarcinoma, papillary features
Orange (UCI Medical Center Residents) - Adenocarcinoma, well-differentiated, fetal type
Sacramento (U.C. Davis Medical Center) - Adenocarcinoma of fetal type
San Francisco (San Francisco General Hospital) - Pulmonary blastoma
Arizona, Phoenix - Well-differentiated adenocarcinoma of lung simulating fetal lung
Arkansas (University of Arkansas Medical Center) - Pulmonary endodermal tumor (adenocarcinoma, fetal type)
Colorado, Denver - Bronchioalveolar carcinoma
Florida (Winter Haven Hospital) - Small cell adenocarcinoma (1); Adenocarcinoma (1)
Georgia, Decatur - Pulmonary blastoma
Illinois (Heartland Regional Medical Center) - Well-differentiated fetal adenocarcinoma
Kansas (Coffeyville Regional Medical Center) - Well-differentiated fetal adenocarcinoma
Kansas, Manhattan - Well-differentiated fetal adenocarcinoma
Kentucky (University of Louisville Hospital) - Well-differentiated fetal adenocarcinoma
Maryland (Johns Hopkins Residents) - Monophasic pulmonary blastoma/Pulmonary endodermal tumor
Maryland (National Naval Medical Center) - Well-differentiated fetal adenocarcinoma
Maryland (University of Maryland) - Pulmonary blastoma
Michigan (Henry Ford Hospital Residents) - Pulmonary blastoma
Minnesota (University of Minnesota Residents) - Pulmonary endodermal tumor
New York (Nassau University Medical Center) - Well-differentiated (fetal) adenocarcinoma
New York (State University of New York at Stony Brook) - Well-differentiated fetal adenocarcinoma
New York (Westchester Medical Center) - Well-differentiated fetal adenocarcinoma
North Carolina (Wake Forest University School of Medicine) - Well-differentiated adenocarcinoma
North Carolina, Fayetteville - Pulmonary blastoma
Ohio (Medical College of Ohio) - Pulmonary endodermal tumor
Pennsylvania (Allegheny General Hospital) - Adenocarcinoma, fetal type
Pennsylvania (Conemaugh Memorial Medical Center) - Pulmonary blastoma
Pennsylvania (Drexel University College of Medicine) - Pulmonary blastoma
Texas (Scott & White Memorial Hospital) - Pulmonary blastoma
Texas, Lubbock - Well-differentiated fetal adenocarcinoma
Texas, Sugarland - Moderately-differentiated adenocarcinoma
Washington, D.C. - Well-differentiated fetal adenocarcinoma
Canada (Woodstock General Hospital) - Pulmonary blastoma, lung
China (Sir Run Run Shaw Hospital) - Pulmonary endodermal tumor (adenocarcinoma of fetal type)
Germany, Hamburg - Pulmonary endodermal tumor (adenocarcinoma, fetal type)
Italy, Naples - Well-differentiated fetal adenocarcinoma

Japan (Asahi General Hospital) - Pulmonary blastoma, lung
Japan (Hamamatsu University School of Medicine) - Well-differentiated fetal adenocarcinoma
Japan (Gunma University Hospital) - Well-differentiated fetal type adenocarcinoma
Puerto Rico (University of Puerto Rico) - Adenocarcinoma
Qatar, Doha - Pulmonary blastoma
Spain (Povisa) - Adenocarcinoma
The Netherlands, Amstelveen - Pulmonary blastoma

Case 6 - Diagnosis:

Well-differentiated fetal adenocarcinoma (monophasic subtype of pulmonary blastoma), lung
T-28000, M-8140/3

Case 6 - References:

Nguyen GK: Fine Needle Aspiration Cytology Of Well-Differentiated Fetal Adenocarcinoma (Endodermal Tumor) Of The Lung. *Acta Cytol*, 2001 May-Jun; 45(3):478-81.
 Sheehan KM, Curran J, Kay EW, et al: Well-Differentiated Fetal Adenocarcinoma Of The Lung In A 29-Year-Old Woman. *J Clin Pathol*, 2003 Jun; 56(6):478-9.
 Fujino S, Asada Y, Konishi T, et al: Well-Differentiated Fetal Adenocarcinoma Of Lung. *Lung Cancer*, 1995 Dec; 13(3):311-6.
 Yamazaki K: Pulmonary Well-Differentiated Fetal Adenocarcinoma Expressing Lineage-Specific Transcription Factors.(TTF-1 And GATA-6) To Respiratory Epithelial Differentiation: An Immunohistochemical And Ultrastructural Study. *Virchows Arch*, 2003 Apr; 442(4):393-9.
 Kodama T, Shimamoto Y, Watanabe S, et al: Six Cases Of Well-Differentiated Adenocarcinoma Simulating Fetal Lung Tubules In Pseudoglandular Stage. Comparison With Pulmonary Blastoma. *Am J Surg Pathol*, 1984 Oct; 8(10):735-44.

Case No. 7 Accession No. 29891

January, 2005

Escondido - #1 – Metastatic mixed germ cell tumor; #2 - Hamartoma
Glendale - Teratoma
Granada Hills - Teratoma
Orange (UCI Medical Center Residents) - Case #1 – Foregut cyst, benign; Case #2 – Teratoma with malignant transformation
Sacramento (U.C. Davis Medical Center) - Mature teratoma and mixed germ cell tumor
San Francisco (San Francisco General Hospital) - Mixed germ cell tumor with immature teratoma
Arizona, Phoenix - Case #1 – Bronchogenic cyst; Case #2 - Carcinosarcoma
Arkansas (University of Arkansas Medical Center) - Teratoma (2), one immature with yolk sac tumor
Colorado, Denver - Bronchial hamartoma
Florida (Winter Haven Hospital) - 1. Mature teratoma (1), 2. Carcinosarcoma (1); 1. Bronchopulmonary malformation with gastroenteric cyst (1), 2. Teratocarcinoma (1)
Georgia, Decatur - Germ cell tumor (5): Mature teratoma, mixed germ cell tumor with embryonal carcinoma and teratoma
Illinois (Heartland Regional Medical Center) - Carcinosarcoma and mature teratoma with focal islet cell hyperplasia
Kansas (Coffeyville Regional Medical Center) - Biphasic pulmonary blastoma
Kansas, Manhattan - 1. Cystic teratoma. 2. Bronchopulmonary blastoma
Kentucky (University of Louisville Hospital) - Malignant teratoma (teratocarcinoma)
Maryland (Johns Hopkins Residents) - Tissue on left (case #1 ?) – Mature teratoma; Tissue on right (case #2 ?) – Somatic carcinoma (adenocarcinoma) arising in a teratoma with immature elements
Maryland (National Naval Medical Center) - Carcinosarcoma (6); Chondrosarcoma arising in teratoma (6)
Maryland (University of Maryland) - Immature and mature teratoma
Michigan (Henry Ford Hospital Residents) - Case #1 – Mature teratoma; Case #2 - Carcinosarcoma
Minnesota (University of Minnesota Residents) - Mature cystic teratoma (28-year-old), Sarcomatoid carcinoma with heterologous elements (42-year-old)
New York (Nassau University Medical Center) - Carcinosarcoma
New York (State University of New York at Stony Brook) - 1) Malignant teratoma of mediastinum; 2) Benign teratoma of lung
New York (Westchester Medical Center) - 1. Teratoma, mature; 2. Teratocarcinoma
North Carolina (Wake Forest University School of Medicine) - Immature teratoma with malignant transformation
North Carolina, Fayetteville - Hamartoma
Ohio (Medical College of Ohio) - Carcinosarcoma
Pennsylvania (Allegheny General Hospital) - Carcinosarcoma/teratocarcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Case #1 – Mature teratoma; Case #2 – Immature teratoma
Pennsylvania (Drexel University College of Medicine) - Teratoma/Pulmonary blastoma

Texas (Scott & White Memorial Hospital) - Teratoma (one malignant)
Texas, Lubbock - Mixed germ cell tumor – teratoma and embryonal carcinoma
Texas, Sugarland - Immature teratoma
Washington, D.C. - 1. Teratocarcinoma. 2. Ectopic pancreas (choristoma)
Canada (Woodstock General Hospital) - Malignant teratoma, mediastinum (case #1); Mature teratoma, lung (case #2)
China (Sir Run Run Shaw Hospital) - Malignant teratoma
Germany, Hamburg - Malignant mixed germ cell tumor, and the other one is a teratoma
Italy, Naples - #1 - Benign foregut cyst; #2 - Carcinosarcoma
Japan (Asahi General Hospital) - Malignant immature teratoma, mediastinum
Japan (Hamamatsu University School of Medicine) - Pulmonary blastoma/teratoma
Japan (Gunma University Hospital) - Mature teratoma. Teratocarcinoma
Puerto Rico (University of Puerto Rico) - Teratocarcinoma/Carcinosarcoma
Qatar, Doha - 1. Malignant mixed germ cell tumor; 2. Foregut cyst
Spain (Povisa) - Malignant teratoma/hamartoma
The Netherlands, Amstelveen - Case #1 – Carcinosarcoma; Case #2 – Ectopic pancreatic tissue

Case 7 - Diagnosis:

Malignant teratoma, mediastinum
T-Y2300, M-9080/3

Case 7 - References:

Eren MN, Balci AE, Eren S: Benign Intrapulmonary Teratoma: Report Of A Case. *J Thorac Cardiovasc Surg*, 2003 Sep; 126(3):855-7.
 Col C: Immature Teratoma In Both Mediastinum And Liver Of A 21-Year-Old Female Patient. *Acta Med Austriaca* (Austria), 2003; 30(1):26-8.
 Greif J, Staroselsky AN, Gernjac M, et al: Percutaneous Core Needle Biopsy In The Diagnosis of Mediastinal Tumors. *Lung Cancer*, 1999 Sep; 25(3):169-73.
 Asano S, Hoshikawa Y, Yamane Y, et al: An Intrapulmonary Teratoma Associated With Bronchiectasia Containing Various Kinds Of Primordium: A Case Report And Review Of The Literature. *Virchows Arch*, 2000 Apr; 436(4):384-8.

Case No. 8 Accession No. 22305

January, 2005

Escondido - Malignant fibrous histiocytoma
Glendale - Pleomorphic sarcoma
Granada Hills - Undifferentiated large cell carcinoma, focal area of giant cell component
Orange (UCI Medical Center Residents) - Undifferentiated malignant neoplasm, high grade
Sacramento (U.C. Davis Medical Center) - Sarcoma
San Francisco (San Francisco General Hospital) - Anaplastic carcinoma
Arizona, Phoenix - Pleomorphic sarcoma
Arkansas (University of Arkansas Medical Center) - Sarcomatoid carcinoma
Colorado, Denver - Rhabdomyosarcoma
Florida (Winter Haven Hospital) - Pleomorphic carcinoma (1); Malignant fibrous histiocytoma (1)
Georgia, Decatur - Malignant fibrous histiocytoma
Illinois (Heartland Regional Medical Center) - Anaplastic malignant neoplasm
Kansas (Coffeyville Regional Medical Center) - Malignant fibrous histiocytoma
Kansas, Manhattan - High grade sarcoma
Kentucky (University of Louisville Hospital) - MFH
Maryland (Johns Hopkins Residents) - Poorly-differentiated neoplasm, favor high grade sarcoma (malignant fibrous histiocytoma)
Maryland (National Naval Medical Center) - Malignant fibrous histiocytoma (7); Anaplastic malignant neoplasm, NOS (2); Anaplastic large cell lymphoma (1)
Maryland (University of Maryland) - Poorly-differentiated sarcoma vs sarcomatoid mesothelioma
Michigan (Henry Ford Hospital Residents) - Poorly-differentiated carcinoma with sarcomatoid features
Minnesota (University of Minnesota Residents) - High grade sarcoma
New York (Nassau University Medical Center) - Malignant fibrous histiocytoma
New York (State University of New York at Stony Brook) - Malignant fibrous histiocytoma
New York (Westchester Medical Center) - Pleomorphic sarcoma vs. carcinosarcoma vs sarcomatoid mesothelioma
North Carolina (Wake Forest University School of Medicine) - Giant cell carcinoma
North Carolina, Fayetteville - Malignant fibrous histiocytoma
Ohio (Medical College of Ohio) - Giant cell carcinoma

Pennsylvania (Allegheny General Hospital) - Poorly-differentiated malignancy
Pennsylvania (Conemaugh Memorial Medical Center) - Metastatic malignant fibrous histiocytoma
Pennsylvania (Drexel University College of Medicine) - Malignant fibrous histiocytoma
Texas (Scott & White Memorial Hospital) - High grade pleomorphic malignancy with sarcomatous features
Texas, Lubbock - Malignant fibrous histiocytoma
Texas, Sugarland - Malignant fibrous histiocytoma
Washington, D.C. - Malignant fibrous histiocytoma
Canada (Woodstock General Hospital) - Sarcoma, NOS, lung
China (Sir Run Run Shaw Hospital) - Pleomorphic sarcoma
Germany, Hamburg - Anaplastic carcinoma
Italy, Naples - High grade sarcoma (pleomorphic-storiform MFH)
Japan (Asahi General Hospital) - Giant cell carcinoma, lung
Japan (Hamamatsu University School of Medicine) - Sarcomatoid carcinoma
Japan (Gunma University Hospital) - Pleomorphic carcinoma
Puerto Rico (University of Puerto Rico) - Malignant fibrous histiocytoma
Qatar, Doha - High grade sarcoma (NOS)
Spain (Povisa) - Sarcoma/Carcinosarcoma
The Netherlands, Amstelveen - Pseudosarcomatous carcinoma (rule out a pleomorphic high grade sarcoma)

Case 8 - Diagnosis:

**High grade pleomorphic sarcoma with phenotype of so-called malignant fibrous histiocytoma, lung
 T-28000, M-8802/3**

Case 8 - References:

Etienne-Mastroianni B, Falchero L, Chalabreysse L, et al: Primary Sarcomas Of The Lung: A Clinicopathologic Study Of 12 Cases. *Lung Cancer*, 2002 Dec; 38(3):283-9.
 Alhadab T, Alvarez F, Phillips NJ, Hauptman PJ: Malignant Fibrous Histiocytoma Of The Lung Presenting As Bronchial Obstruction In A Heart Transplant Recipient. *J Heart Lung Transplant*, 2002 Oct; 21(10):1140-3.
 Aribas OK, Gormus N: Obstructing Endobronchial Malignant Fibrous Histiocytoma. *Eur J Cardiothorac Surg*, 2001 May; 19(5):716-8.
 Herrmann BL, Saller B, Kiess W, et al: Primary Malignant Fibrous Histiocytoma Of The Lung: IGF-II Producing Tumor Induces Fasting Hypoglycemia. *Exp Clin Endocrinol Diabetes*, 2000; 108(8):515-8.
 Kimizuka G, Okuzawa K, Yarita T: Primary Giant Cell Malignant Fibrous Histiocytoma Of The Lung: A Case Report. *Pathol Int*, 1999 Apr; 49(4):342-6.

Case No. 9 Accession No. 22208

January, 2005

Escondido - Malignant mesothelioma
Glendale - Mesothelioma
Granada Hills - Mesothelioma
Orange (UCI Medical Center Residents) - Mesothelioma, biphasic
Sacramento (U.C. Davis Medical Center) - Malignant mesothelioma, epithelioid type
San Francisco (San Francisco General Hospital) - Mixed fibrous and epithelial mesothelioma
Arizona, Phoenix - Malignant mesothelioma, biphasic type
Arkansas (University of Arkansas Medical Center) - Malignant mesothelioma, epithelioid type
Colorado, Denver - Mesothelioma
Florida (Winter Haven Hospital) - Mesothelioma (2)
Georgia, Decatur - Mesothelioma
Illinois (Heartland Regional Medical Center) - Malignant mesothelioma
Kansas (Coffeyville Regional Medical Center) - Mesothelioma, biphasic
Kansas, Manhattan - Malignant mesothelioma
Kentucky (University of Louisville Hospital) - Malignant mesothelioma
Maryland (Johns Hopkins Residents) - Epithelioid mesothelioma
Maryland (National Naval Medical Center) - Mesothelioma
Maryland (University of Maryland) - Mesothelioma
Michigan (Henry Ford Hospital Residents) - Mesothelioma, biphasic
Minnesota (University of Minnesota Residents) - Mesothelioma
New York (Nassau University Medical Center) - Mesothelioma

New York (State University of New York at Stony Brook) - Mesothelioma
New York (Westchester Medical Center) - Mesothelioma
North Carolina (Wake Forest University School of Medicine) - Mesothelioma
North Carolina, Fayetteville - Mesothelioma
Ohio (Medical College of Ohio) - Mesothelioma
Pennsylvania (Allegheny General Hospital) - Mesothelioma
Pennsylvania (Conemaugh Memorial Medical Center) - Epithelioid mesothelioma
Pennsylvania (Drexel University College of Medicine) - Mesothelioma
Texas (Scott & White Memorial Hospital) - Malignant mesothelioma
Texas, Lubbock - Mesothelioma
Texas, Sugarland - Malignant mesothelioma
Washington, D.C. - Mesothelioma
Canada (Woodstock General Hospital) - Mesothelioma
China (Sir Run Run Shaw Hospital) - Malignant mesothelioma
Germany, Hamburg - Mesothelioma (biphasic)
Italy, Naples - Biphasic malignant mesothelioma
Japan (Asahi General Hospital) - Malignant mesothelioma, pleura
Japan (Hamamatsu University School of Medicine) - Malignant mesothelioma
Japan (Gunma University Hospital) - Malignant mesothelioma
Puerto Rico (University of Puerto Rico) - Malignant mesothelioma
Qatar, Doha - Mesothelioma
Spain (Povisa) - Malignant mesothelioma
The Netherlands, Amstelveen - Biphasic malignant mesothelioma

Case 9 - Diagnosis:

Mesothelioma, lung

T-28000, M-9050/3

Case 9 - References:

Janne PA, Taffaro ML, Salgia R, Johnson BE: Inhibition Of Epidermal Growth Factor Receptor Signaling In Malignant Pleural Mesothelioma. *Cancer Res*, 2002 Sep 15; 62(18):5242-7.
 Gordon GJ, Jensen RV, Hsiao LL, et al: Translation Of Microarray Data Into Clinically Relevant Cancer Diagnostic Tests Using Gene Expression Ratios In Lung Cancer And Mesothelioma. *Cancer Res*, 2002 Sep 1; 62(17):4963-7.
 Berry G: Asbestos Lung Fibre Analysis In The United Kingdom, 1976-96. *Ann Occup Hyg*, 2002 Aug; 46(6):523-6.
 Di Muzio M, Spoletni L, Strizzi L, et al: Basal Lamina Reduplication In Malignant Epithelioid Pleural Mesothelioma. *Ultrastruct Pathol*, 1998 Nov-Dec; 22(6):467-75
 Miettinen M, Sarlomo-Rikala M: Expression Of Calretinin, Thrombomodulin, Keratin 5, And Mesothelin In Lung Carcinomas Of Different Types: An Immunohistochemical Analysis Of 596 Tumors In Comparison With Mesotheliomas Of The Pleura. *Am J Surg Pathol*, 2003 Feb; 27(2):150-8.
 Ordonez NG: The Immunohistochemical Diagnosis Of Mesotheliomas: A Comparative Study Of Epithelioid Mesothelioma And Lung Adenocarcinoma. *Am J Surg Pathol*, 2003 Aug; 27(8):1031-51.

Case No. 10 Accession No. 15068

January, 2005

Escondido - Metastatic follicular carcinoma
Glendale - Typical carcinoid
Granada Hills - Metastatic follicular carcinoma of thyroid
Orange (UCI Medical Center Residents) - Metastatic follicular carcinoma from thyroid
Sacramento (U.C. Davis Medical Center) - Metastatic follicular carcinoma
San Francisco (San Francisco General Hospital) - Metastatic follicular carcinoma
Arizona, Phoenix - Metastatic thyroid follicular carcinoma
Arkansas (University of Arkansas Medical Center) - Metastatic follicular carcinoma of thyroid gland, lung
Colorado, Denver - Medullary carcinoma
Florida (Winter Haven Hospital) - Metastatic follicular carcinoma of thyroid (2)
Georgia, Decatur - Poorly-differentiated carcinoma, c/w thyroid primary
Illinois (Heartland Regional Medical Center) - Metastatic thyroid follicular carcinoma
Kansas (Coffeyville Regional Medical Center) - Metastatic follicular thyroid carcinoma
Kansas, Manhattan - Metastatic follicular carcinoma
Kentucky (University of Louisville Hospital) - Metastatic follicular thyroid carcinoma

Maryland (Johns Hopkins Residents) - Metastatic thyroid carcinoma, r/o medullary carcinoma with calcitonin stain
Maryland (National Naval Medical Center) - Metastatic follicular thyroid carcinoma
Maryland (University of Maryland) - Metastatic follicular carcinoma. Comment: Possible differentiation to an insular carcinoma
Michigan (Henry Ford Hospital Residents) - Insular carcinoma/Poorly-differentiated follicular carcinoma, metastatic
Minnesota (University of Minnesota Residents) - Metastatic follicular thyroid carcinoma
New York (Nassau University Medical Center) - Thyroid carcinoma, follicular
New York (State University of New York at Stony Brook) - Metastatic insular carcinoma of thyroid
New York (Westchester Medical Center) - Metastatic thyroid carcinoma
North Carolina (Wake Forest University School of Medicine) - Metastatic follicular carcinoma of the thyroid
North Carolina, Fayetteville - Metastatic follicular carcinoma of the thyroid
Ohio (Medical College of Ohio) - Metastatic follicular variant of papillary thyroid carcinoma
Pennsylvania (Allegheny General Hospital) - Metastatic thyroid carcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Metastatic follicular carcinoma
Pennsylvania (Drexel University College of Medicine) - Follicular carcinoma of thyroid, metastatic to lung
Texas (Scott & White Memorial Hospital) - Metastatic follicular carcinoma
Texas, Lubbock - Metastatic follicular carcinoma of thyroid
Texas, Sugarland - Metastatic follicular carcinoma
Washington, D.C. - Follicular carcinoma, metastatic
Canada (Woodstock General Hospital) - Well-differentiated neuroendocrine tumor, cannot exclude the possibility of metastasis from thyroid follicular carcinoma, lung
China (Sir Run Run Shaw Hospital) - Metastatic thyroid follicular carcinoma
Germany, Hamburg - Metastases from thyroidal carcinoma (poorly-differentiated carcinoma, insular type)
Italy, Naples - Metastatic follicular carcinoma of thyroid
Japan (Asahi General Hospital) - Consistent with metastatic follicular carcinoma from thyroid gland, lung
Japan (Hamamatsu University School of Medicine) - Follicular carcinoma of the thyroid, metastatic
Japan (Gunma University Hospital) - Metastatic follicular carcinoma
Puerto Rico (University of Puerto Rico) - Metastatic thyroid carcinoma, follicular, insular variant
Qatar, Doha - Metastatic thyroid follicular carcinoma of insular type
Spain (Povisa) - Metastatic follicular carcinoma (thyroid gland)
The Netherlands, Amstelveen - Metastatic follicular carcinoma of the thyroid

Case 10 - Diagnosis:

Metastatic follicular carcinoma, lung
T-28000, M-8330/6

Case 10 - References:

Chhieng DC, Cangiarella JF, Zakowski MF, et al: Use Of Thyroid Transcription Factor 1, PE-10, And Cytokeratins 7 And 20 In Discriminating Between Primary Lung Carcinomas And Metastatic Lesions In Fine Needle Aspiration Biopsy Specimens. *Cancer*, 2001 Oct 25; 93(5):330-6.
 Hecht JL, Pinkus JL, Weinstein LJ, Pinkus GS: The Value Of Thyroid Transcription Factor-1 In Cytologic Preparations As A Marker For Metastatic Adenocarcinoma Of Lung Origin. *Am J Clin Pathol*, 2001 Oct; 116(4):483-8.
 Carcangiu ML, Steeper T, Zampi G, Rosai J: Anaplastic Thyroid Carcinoma: A Study Of 70 Cases. *Am J Clin Pathol*, 1985 Feb; 83(2):135-58.