



CALIFORNIA
TUMOR TISSUE REGISTRY

“Head & Neck Tumors”

Minutes – Subscription B

January, 2006



SUGGESTED READING (General Topics from Recent Literature):

Tyrosine Kinases As Targets For Cancer Therapy. Krause DS, Van Etten RA. *N Engl J Med*, 2005 Jul 14; 353(2):172-87.

Follicular Dendritic Cell Immunohistochemical Markers In Angioimmunoblastic T-Cell Lymphoma. Troxell ML, Schwartz EJ, van de Rijn M, et al: *Appl Immunohistochem Mol Morphol*, 2005 Dec; 13(4):297-303.

Gene Therapy: The Good, The Bad, And The Ugly. Raper SE. *Surgery*, 2005 May; 137(5):487-92.

Intercellular Transfer Of P-Glycoprotein Mediates Acquired Multidrug Resistance In Tumor Cells. Levchenko A, Mehta BM, Niu X, et al: *Proc Natl Acad Sci USA*, 2005 Feb 8; 102(6):1933-8.

Prediction Of Cancer Outcome With Microarrays: A Multiple Random Validation Strategy. Michiels S, Koscielny S, Hill C. *Lancet*, 2005 Feb 5-11; 365(9458):488-92.

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FILE DIAGNOSES

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

CTTR Subscription B

Case 1:

**Inverted papilloma (Schneiderian), nose
T-21000, M-8053/0**

Case 2:

**Multiple squamous papillomas (laryngeal papillomatosis)
T-24100, M-8052/0**

Case 3:

**Lymphangioma, parotid region
T-55100, M-9170/0**

Case 4:

**Mucoepidermoid carcinoma, parotid gland
T-55100, M8430/3**

Case 5:

**Pleomorphic adenoma (benign mixed tumor), submandibular gland
T-55300, M-8940/0**

Case 6:

**Lymphoepithelial carcinoma (high-grade squamous carcinoma with abundant lymphoid infiltrate), parotid gland
T-55100, M-8082/3**

Case 7:

**Warthin’s tumor, parotid
T-55100, M-8561/0**

Case 8:

**Adenoid cystic carcinoma, submandibular gland
T-55300, M-8200/3**

Case 9:

**Embryonal rhabdomyosarcoma, sinonasal area
T-21310, M-8910/3**

Case 10:

**Palisaded myofibroblastoma (intranodal hemorrhagic spindle cell tumor with amorphous fibers), neck
T-Y0600, M-76100**

Escondido - Inverted Schneiderian papilloma
Glendale - Inverted papilloma
Long Beach Memorial Medical Center - Inverted papilloma
San Francisco (San Francisco General Hospital) - Inverted papilloma
Arkansas (University of Arkansas Medical Center) - Sinonasal papilloma, inverted type, nose
Florida (Winter Haven Hospital) - Inverted papilloma (3)
Georgia, Decatur - Inverted papilloma
Illinois (Heartland Regional Medical Center) - Inverted papilloma
Kansas (Coffeyville Regional Medical Center) - Inverted Schneiderian papilloma
Kansas (Peterson Laboratory Services) - Inverted Schneiderian papilloma
Kentucky (University of Louisville Hospital) - Inverted papilloma
Maryland (Johns Hopkins Medical Institute) - Schneiderian papilloma, inverted type
Maryland (National Naval Medical Center) - Squamous papilloma (Schneiderian)
Maryland (University of Maryland Medical Center) - Inverted papilloma
Michigan (Henry Ford Hospital Residents) - Inverted papilloma
Michigan (Pathology Services) - Inverted papilloma
Missouri (Ferguson Medical Labs) - Schneiderian papilloma (inverted papilloma)
New York (Nassau University Medical Center) - Sinonasal papilloma
New York SUNY Downstate) - Inverted papilloma
New York (SUNY Stony Brook Residents) - Inverted papilloma
New York (Westchester Medical Center) - Inverted papilloma. No dysplasia.
North Carolina (Womack Army Medical Center) - Inverted papilloma (4)
Ohio (Medical University of Ohio) - Inverted Schneiderian squamous papilloma
Pennsylvania (Allegheny General Hospital) - Inverted papilloma
Pennsylvania (Drexel University College of Medicine) - Inverted papilloma, inflamed
Pennsylvania (Memorial Medical Center) - Schneiderian papilloma, inverted
Texas (Baylor College of Medicine) - Inverted papilloma
Texas (Scott & White Hospital) - Inverted Schneiderian papilloma
Texas, Crystal Beach - Schneiderian papilloma
Texas, Lubbock - Inverted papilloma
Texas, San Antonio - Schneiderian papilloma, inverted
West Virginia (Wetzel County Hospital) - Inverted papilloma
Wisconsin (Marshfield Clinic) - Inverted papilloma (Schneiderian)
Australia (Sullivan Nicolaides Pathology) - Inverted papilloma
Brazil (APEMG) - Sinonasal-type (Schneiderian) papilloma, inverted type
Canada (Pasqua Hospital) - Inverted papilloma
China (Sir Run Run Shaw Hospital) - Inverted papilloma
Japan (Gunma University Hospital) - Inverted papilloma
Japan (Hamamatsu University School of Medicine) - Inverted squamous papilloma
Oman (Sultanate of Oman) - Sinonasal-type papilloma
Puerto Rico (University of Puerto Rico) - Inverted papilloma (2)
Qatar (Hamad Medical Corporation) - Inverted papilloma
Spain (Povisa) - Sinonasal papilloma with inverted pattern of growth

Case 1 - Diagnosis:

**Inverted papilloma (Schneiderian), nose
T-21000, M-8053/0**

Case 1 - References:

Gaffey MJ, Frierson HF Jr, Weiss LM, et al: Human Papillomavirus and Epstein-Barr Virus In Sinonasal Schneiderian Papillomas. An In-Situ Hybridization And Polymerase Chain Reaction Study. *Am J Clin Pathol*, 1996 Oct; 106(4):475-82.
Bielamowicz S, Calcaterra TC, Watson D: Inverted Papilloma Of The Head And Neck: The UCLA Updates. *J Otolaryngol Head Neck Surg*, 1993 Jul; 109(1):71-6. Review.
Judd R, Zaki SR, Coffield LM, Evatt BL: Sinonasal Papillomas And Human Papilloma Virus: Human Papilloma Virus 11 Detected In Fungiform Schneiderian Papillomas By In-Situ Hybridization And Polymerase Chain Reaction. *Hum Pathol*, 1991 Jun, 22(6):550-6.
Phillips PP, Gustafson RO, Facer GW: The Clinical Behavior Of Inverting Papilloma Of The Nose And Paranasal Sinuses. Report Of 112 Cases And Review Of The Literature. *Laryngoscope*, 1990 May; 100:463-9. Review.

Escondido - Laryngotracheal papillomatosis (condyloma acuminatum)
Glendale - Squamous papillomatosis
Long Beach Memorial Medical Center - Laryngeal papilloma with dysplasia
San Francisco (San Francisco General Hospital) - Squamous papilloma
Arkansas (University of Arkansas Medical Center) - Squamous papillomatosis, trachea
Florida (Winter Haven Hospital) - Squamous papillomatosis (3)
Georgia, Decatur - Squamous papillomatosis
Illinois (Heartland Regional Medical Center) - Laryngotracheal squamous papillomas
Kansas (Coffeyville Regional Medical Center) - Exophytic squamous papillomatosis
Kansas (Peterson Laboratory Services) - Papillomatosis
Kentucky (University of Louisville Hospital) - Laryngeal papilloma (laryngeal papillomatosis)
Maryland (Johns Hopkins Medical Institute) - Laryngeal papillomatosis
Maryland (National Naval Medical Center) - Squamous papillomatosis
Maryland (University of Maryland Medical Center) - Squamous papilloma (juvenile laryngeal papillomatosis)
Michigan (Henry Ford Hospital Residents) - Papillomatosis
Michigan (Pathology Services) - Squamous papillomas
Missouri (Ferguson Medical Labs) - Squamous papillomas with koilocytosis and high grade dysplasia
New York (Nassau University Medical Center) - Laryngeal papillomatosis, juvenile
New York SUNY Downstate - Papillomatosis
New York (SUNY Stony Brook Residents) - Papillomatosis with dysplasia
New York (Westchester Medical Center) - Tracheal squamous papillomatosis with condylomatous changes and mild dysplasia
North Carolina (Womack Army Medical Center) - Juvenile papillomatosis (4)
Ohio (Medical University of Ohio) - Laryngeal papillomatosis
Pennsylvania (Allegheny General Hospital) - Laryngo-tracheal papillomatosis
Pennsylvania (Drexel University College of Medicine) - Squamous papillomatosis with HPV cytopathic effect
Pennsylvania (Memorial Medical Center) - Laryngeal papilloma
Texas (Baylor College of Medicine) - Squamous papillomas
Texas (Scott & White Hospital) - Juvenile laryngeal papillomas
Texas, Crystal Beach - Squamous papilloma with koilocytic changes (HPV related)
Texas, Lubbock - Squamous papilloma
Texas, San Antonio - Laryngotracheal papillomatosis
West Virginia (Wetzel County Hospital) - Benign squamous papilloma
Wisconsin (Marshfield Clinic) - Laryngeal papillomatosis
Australia (Sullivan Nicolaides Pathology) - Laryngeal papillomatosis
Brazil (APEMG) - Papillomatosis with some pre-malignant changes
Canada (Pasqua Hospital) - Papillomatosis
China (Sir Run Run Shaw Hospital) - Squamous cell papilloma/acuminate condyloma
Japan (Gunma University Hospital) - Transitional cell papilloma
Japan (Hamamatsu University School of Medicine) - Juvenile tracheal papillomatosis
Oman (Sultanate of Oman) - Juvenile laryngeal papillomatosis
Puerto Rico (University of Puerto Rico) - Laryngeal papillomatosis (2)
Qatar (Hamad Medical Corporation) - Laryngeal papillomatosis (HPV related)
Spain (Povisa) - Papillomatosis (HPV)

Case 2 - Diagnosis:**Multiple squamous papillomas (laryngeal papillomatosis)****T-24100, M-8052/0****Outside Consult:** Armed Forces Institute of Pathology: Multiple predominantly squamous papillomas.**Case 2 - References:**

- Soldatskil L, Onufrieva EK, Steklov AM, Schepin NV: Tracheal, Bronchial And Pulmonary Papillomatosis In Children. *Laryngoscope*, 2005 Oct; 115(10):1848-54.
 Zawadzka-Glos L, Jakubowska A, Chmielik M, et al: Lower Airway Papillomatosis In Children. *Int J Pediatr Otorhinolaryngol*, 2003 Oct; 67(10):1117-21.
 Mahnke CG, Werner JA, Frohlich O, et al: Clinical And Molecular Biology Studies Of Laryngeal Papillomatosis. *Laryngorhinootologie*, 1998 Jan; 77(1):27-33.
 Mahnke CG, Frohlich O, Lippert BM, Werner JA: Recurrent Laryngeal Papillomatosis: Retrospective Analysis of 95 Patients And Review Of the Literature. *Otolaryngol Pol*, 1996; 50(6):567-78. Review.
 Grillo HC: Reconstruction Of The Trachea After Resection For Neoplasm. *Head & Neck Surg*, 1981; 4:2-8.

Escondido - Lymphangioma
Glendale - Lymphangioma
Long Beach Memorial Medical Center - Lymphangioma
San Francisco (San Francisco General Hospital) - Lymphangioma
Arkansas (University of Arkansas Medical Center) - Lymphangioma, parotid gland
Florida (Winter Haven Hospital) - Benign connective tissue (1); Benign (1); Lymphangioma (1)
Georgia, Decatur - Hemangioma
Illinois (Heartland Regional Medical Center) - Cavernous lymphangioma (cystic hygroma)
Kansas (Coffeyville Regional Medical Center) - Cystic lymphangioma (hygroma)
Kansas (Peterson Laboratory Services) - Lymphangioma
Kentucky (University of Louisville Hospital) - Lymphangioma
Maryland (Johns Hopkins Medical Institute) - Lymphangioma
Maryland (National Naval Medical Center) - Lymphangioma
Maryland (University of Maryland Medical Center) - Lymphangioma
Michigan (Henry Ford Hospital Residents) - Lymphangioma
Michigan (Pathology Services) - Lymphangioma
Missouri (Ferguson Medical Labs) - Benign vascular lesion, favor vascular transformation (remainder of answer illegible)
New York (Nassau University Medical Center) - Lymphangiomas
New York SUNY Downstate - Lymphangioma
New York (SUNY Stony Brook Residents) - Lymphangioma
New York (Westchester Medical Center) - Lymphangioma
North Carolina (Womack Army Medical Center) - Salivary gland lymphangioma (4)
Ohio (Medical University of Ohio) - Cystic hygroma (cavernous lymphangioma)
Pennsylvania (Allegheny General Hospital) - Lymphangioma (cystic hygroma)
Pennsylvania (Drexel University College of Medicine) - Lymphangioma
Pennsylvania (Memorial Medical Center) - Lymphangiomatosis
Texas (Baylor College of Medicine) - Lymphangioma
Texas (Scott & White Hospital) - Lymphangioma
Texas, Crystal Beach - Cystic lesion, possibly lymphangiomatous with lymphoid tissue/hyperplasia
Texas, Lubbock - Arteriovenous malformation
Texas, San Antonio - Lymphangioma
West Virginia (Wetzel County Hospital) - Lymphangioma
Wisconsin (Marshfield Clinic) - Lymphangioma and a lymph node
Australia (Sullivan Nicolaides Pathology) - Cystic hygroma
Brazil (APEMG) - Lymphangioma
Canada (Pasqua Hospital) - Lymphangioma
China (Sir Run Run Shaw Hospital) - Lymphangioma
Japan (Gunma University Hospital) - Cystic lymphangioma
Japan (Hamamatsu University School of Medicine) - Lymphangioma
Oman (Sultanate of Oman) - Lymphangioma
Puerto Rico (University of Puerto Rico) - Lymphangioma (2)
Qatar (Hamad Medical Corporation) - Lymphangioma
Spain (Povisa) - Lymphangioma

CASE 3 - Diagnosis:

Lymphangioma, parotid region
T-55100, M-9170/0

Case 3 - References:

Gutmann EJ: Lymphangioma Presenting As A Primary Parotid Neoplasm In An Adult. Report Of A Case With The Diagnosis Suggested By Fine Needle Aspiration Biopsy. *Acta Cytol*, 1994 Sep-Oct; 38(5):747-50.
 Tsui SC, Huang JL: Parotid Lymphangioma. A Case Report. *Int J Pediatr Otorhinolaryngol*, 1996 Feb; 34(3):273-8.
 Livesey JR, Soames JV: Cystic Lymphangioma In The Adult Parotid. *J Laryngol Otol*, 1992 Jun; 106(6):566-8.
 Stenson KM, Mishelle J, Toriumi DM: Cystic Hygroma Of The Parotid Gland. *Ann Otorhinolaryngol*, 1991 Jun; 100(6):518-20.
 Lingeman RE: Cystic Lymphangioma Of The Parotid Region. *Laryngoscope*, 1960 Jul; 70:983-98.

Escondido - Basal cell adenoma
Glendale - Carcinoma
Long Beach Memorial Medical Center - Carcinoma NOS
San Francisco (San Francisco General Hospital) - Pleomorphic adenoma
Arkansas (University of Arkansas Medical Center) - Mixed tumor with squamous differentiation, parotid gland
Florida (Winter Haven Hospital) - Mucoepidermoid carcinoma (3), high grade (1)
Georgia, Decatur - Basal cell adenocarcinoma
Illinois (Heartland Regional Medical Center) - Low-grade epithelial-myoepithelial carcinoma
Kansas (Coffeyville Regional Medical Center) - Mucoepidermoid carcinoma, low grade
Kansas (Peterson Laboratory Services) - Myoepithelial carcinoma
Kentucky (University of Louisville Hospital) - Mucoepidermoid carcinoma vs necrotizing sialoadenitis
Maryland (Johns Hopkins Medical Institute) - Mucoepidermoid carcinoma
Maryland (National Naval Medical Center) - Basal cell adenocarcinoma (5); Adenocarcinoma, NOS (3)
Maryland (University of Maryland Medical Center) - Epithelial myoepithelioma
Michigan (Henry Ford Hospital Residents) - Mucoepidermoid carcinoma
Michigan (Pathology Services) - Lymphoepithelial carcinoma
Missouri (Ferguson Medical Labs) - Mucoepidermoid carcinoma, high-grade
New York (Nassau University Medical Center) - Sebaceous adenoma
New York SUNY Downstate - Pleomorphic adenoma; basal cell adenoma; basal cell adenocarcinoma with squamous differentiation; adenocarcinoma, NOS; high-grade mucoepidermoid cancer
New York (SUNY Stony Brook Residents) - Squamous cell carcinoma arising in a basal adenocarcinoma
New York (Westchester Medical Center) - Mucoepidermoid carcinoma
North Carolina (Womack Army Medical Center) - Monomorphic adenoma (4)
Ohio (Medical University of Ohio) - Lymphoepithelioma
Pennsylvania (Allegheny General Hospital) - Basal cell adenocarcinoma
Pennsylvania (Drexel University College of Medicine) - Spiroadenoma
Pennsylvania (Memorial Medical Center) - Myoepithelioma
Texas (Baylor College of Medicine) - Basal cell adenoma
Texas (Scott & White Hospital) - Mucoepidermoid carcinoma
Texas, Crystal Beach - Carcinoma, myoepithelial (possibly epithelial-myoepithelial)
Texas, Lubbock - Squamous cell carcinoma
Texas, San Antonio - Acinic cell carcinoma
West Virginia (Wetzel County Hospital) - Mucoepidermoid carcinoma
Wisconsin (Marshfield Clinic) - Basal cell adenoma
Australia (Sullivan Nicolaides Pathology) - Mucoepidermoid carcinoma
Brazil (APEMG) - Basal cell adenocarcinoma of parotid
Canada (Pasqua Hospital) - Basal cell adenocarcinoma
China (Sir Run Run Shaw Hospital) - Basal cell adenocarcinoma
Japan (Gunma University Hospital) - Mucoepidermoid carcinoma
Japan (Hamamatsu University School of Medicine) - Myoepithelial sialoadenitis
Oman (Sultanate of Oman) - Basal cell adenoma
Puerto Rico (University of Puerto Rico) - Malignant mixed tumor/Sebaceous carcinoma (2)
Qatar (Hamad Medical Corporation) - Chronic sialoadenitis with sialometaplasia
Spain (Povisa) - Mucoepidermoid carcinoma

Case 4 - Diagnosis:**Mucoepidermoid carcinoma, parotid gland****T-55100, M-8430/3****Case 4 - References:**

Hicks MJ, el-Naggar AK, Flaitz CM, et al: Histologic Grading Of Mucoepidermoid Carcinoma Of Major Salivary Glands In Prognosis And Survival: A Clinicopathologic and Flow Cytometric Investigation. *Head Neck*, 1995 Mar-Apr; 17(2):89-95.
 Skalova A, Lehtonen H, von Boguslawsky I: Prognostic Significance Of Cell Proliferation In Mucoepidermoid Carcinomas Of The Salivary Gland: Clinicopathological Study Using MIB1 Antibody In Paraffin Sections. *Hum Pathol*, 1994; 25:929-935.
 Hicks MJ, el-Naggar AK, Byers RM, et al: Prognostic Factors In Mucoepidermoid Carcinoma Of Major Salivary Glands: A Clinicopathologic And Flow Cytometric Study. *Eur J Cancer B Oral Oncol*, 1994 Sep; 30(8):329-34.
 Chan JKC, Saw D: Sclerosing Mucoepidermoid Tumor Of The Parotid Gland: Report Of A Case. *Histopathology*, 1987 Feb; 11(2):203-7.
 Healey WV, Perzin KH, Smith L: Mucoepidermoid Carcinoma Of Salivary Gland Origin. Classification, Clinical Pathologic Correlation, and Results of Treatment. *Cancer*, 1970 Aug; 26(2):368-88.

Escondido - Pleomorphic adenoma
Glendale - Cellular pleomorphic adenoma
Long Beach Memorial Medical Center - Pleomorphic adenoma
San Francisco (San Francisco General Hospital) - Pleomorphic adenoma
Arkansas (University of Arkansas Medical Center) - Mixed tumor, submandibular gland
Florida (Winter Haven Hospital) - Mixed tumor, benign (3)
Georgia, Decatur - Epithelial myoepithelial carcinoma
Illinois (Heartland Regional Medical Center) - Pleomorphic adenoma
Kansas (Coffeyville Regional Medical Center) - Mixed tumor (pleomorphic adenoma)
Kansas (Peterson Laboratory Services) - Cellular pleomorphic adenoma
Kentucky (University of Louisville Hospital) - Pleomorphic adenoma
Maryland (Johns Hopkins Medical Institute) - Benign mixed tumor
Maryland (National Naval Medical Center) - Pleomorphic adenoma
Maryland (University of Maryland Medical Center) - Pleomorphic adenoma (cellular mixed tumor)
Michigan (Henry Ford Hospital Residents) - Pleomorphic adenoma
Michigan (Pathology Services) - Pleomorphic adenoma
Missouri (Ferguson Medical Labs) - Cellular mixed tumor (pleomorphic adenoma)
New York (Nassau University Medical Center) - Myoepithelioma
New York SUNY Downstate) - Pleomorphic adenoma
New York (SUNY Stony Brook Residents) - Pleomorphic adenoma
New York (Westchester Medical Center) - Mixed tumor
North Carolina (Womack Army Medical Center) - Pleomorphic adenoma (4)
Ohio (Medical University of Ohio) - Pleomorphic adenoma
Pennsylvania (Allegheny General Hospital) - Benign mixed tumor
Pennsylvania (Drexel University College of Medicine) - Benign mixed tumor
Pennsylvania (Memorial Medical Center) - Pleomorphic adenoma
Texas (Baylor College of Medicine) - Pleomorphic adenoma
Texas (Scott & White Hospital) - Cellular pleomorphic adenoma
Texas, Crystal Beach - Cellular mixed tumor
Texas, Lubbock - Cellular pleomorphic adenoma
Texas, San Antonio - Polymorphous low grade adenocarcinoma
West Virginia (Wetzel County Hospital) - Malignant mixed salivary gland tumor
Wisconsin (Marshfield Clinic) - Pleomorphic adenoma
Australia (Sullivan Nicolaides Pathology) - Carcinoma ex Pleomorphic adenoma
Brazil (APEMG) - Pleomorphic adenoma
Canada (Pasqua Hospital) - Myoepithelial carcinoma arising in a mixed tumor
China (Sir Run Run Shaw Hospital) - Pleomorphic adenoma
Japan (Gunma University Hospital) - Pleomorphic adenoma
Japan (Hamamatsu University School of Medicine) - Pleomorphic adenoma
Oman (Sultanate of Oman) - Pleomorphic adenoma
Puerto Rico (University of Puerto Rico) - Pleomorphic adenoma (2)
Qatar (Hamad Medical Corporation) - Pleomorphic adenoma
Spain (Povisa) - Benign mixed tumor (pleomorphic adenoma)

Case 5 - Diagnosis:

Pleomorphic adenoma (benign mixed tumor), submandibular gland
T-55300, M-8940/0

Case 5 - References:

- Xu H, Shimizu Y, Niki T, et al: Pleomorphic Adenoma Of The Submandibular Salivary Glands With Marked Ossification. *J Oral Pathol Med*, 2003 Sep; 32(8):499-501.
 Shigeishi H, Hayashi K, Takata T, et al: Pleomorphic Adenoma Of The Parotid Gland With Extensive Bone Formation. *Pathol Int*, 2001 Nov; 51(11):883-6.
 Angelov A, Dikranian K, Trosheva M: Immunomorphological Characteristics Of Pleomorphic Adenoma Of Salivary Glands. *Bull Group Int Rec Sci Stomatol Odontol*, 1996 Jun-Sep; 39(3-4):67-75.
 Stead Rh, Qizilbash AH, Konlozoglou T, et al: An Immunohistochemical Study Of Pleomorphic Adenomas Of The Salivary Gland. *Hum Pathol*, 1988; 19:32-40.
 Nakazato Y, Ishida Y, Takahashi K, Suzuki K: Immunohistochemical Distribution Of S-100 Protein And Glial Fibrillary Acidic Protein In Normal And Neoplastic Salivary Glands. *Virchows Arch A Pathol Anat Histopathol*, 1985; 405(3):299-310.

Escondido - Lymphoepithelial carcinoma
Glendale - Lymphoepithelial carcinoma
Long Beach Memorial Medical Center - Lymphoepithelial carcinoma
San Francisco (San Francisco General Hospital) - Lymphoepithelioma-like carcinoma
Arkansas (University of Arkansas Medical Center) - Lymphoepithelial carcinoma, parotid gland
Florida (Winter Haven Hospital) - Poorly-differentiated squamous carcinoma (2), with lymphoid stroma (1); Lymphoepithelial lesion (1)
Georgia, Decatur - Lymphoepithelial carcinoma
Illinois (Heartland Regional Medical Center) - Lymphoepithelial carcinoma
Kansas (Coffeyville Regional Medical Center) - Metastatic squamous cell carcinoma in lymph node
Kansas (Peterson Laboratory Services) - Lymphoepithelial carcinoma
Kentucky (University of Louisville Hospital) - Lymphoepithelial lesion (malignant)
Maryland (Johns Hopkins Medical Institute) - Lymphoepithelioma-like carcinoma
Maryland (National Naval Medical Center) - Lymphoepithelial carcinoma
Maryland (University of Maryland Medical Center) - Lymphoepithelial-like carcinoma
Michigan (Henry Ford Hospital Residents) - Lymphoepithelial carcinoma
Michigan (Pathology Services) - Lymphoepithelial carcinoma
Missouri (Ferguson Medical Labs) - Malignant lymphoepithelial lesion
New York (Nassau University Medical Center) - Mucoepidermoid carcinoma
New York SUNY Downstate - Lymphoepithelial carcinoma
New York (SUNY Stony Brook Residents) - Malignant thymoma arising in a heterotopic location
New York (Westchester Medical Center) - Lymphoepithelial carcinoma
North Carolina (Womack Army Medical Center) - Carcinoma ex mixed tumor (4)
Ohio (Medical University of Ohio) - Lymphoepithelial carcinoma
Pennsylvania (Allegheny General Hospital) - Lymphoepithelioma lesion
Pennsylvania (Drexel University College of Medicine) - Lymphoepithelial carcinoma
Pennsylvania (Memorial Medical Center) - Lymphoepithelioma
Texas (Baylor College of Medicine) - Lymphoepithelioma-like carcinoma
Texas (Scott & White Hospital) - Nasopharyngeal carcinoma
Texas, Crystal Beach - Lymphoepithelial carcinoma
Texas, Lubbock - Lymphoepithelioma
Texas, San Antonio - Lymphoepithelial carcinoma
West Virginia (Wetzel County Hospital) - Benign lymphoepithelial lesion
Wisconsin (Marshfield Clinic) - Lymphoepithelioma, benign
Australia (Sullivan Nicolaides Pathology) - Lymphoepithelial carcinoma
Brazil (APEMG) - Lymphoepithelioma-like carcinoma
Canada (Pasqua Hospital) - Benign lymphoepithelial lesion
China (Sir Run Run Shaw Hospital) - Benign lymphoepithelial lesion
Japan (Gunma University Hospital) - Lymphoepithelial carcinoma
Japan (Hamamatsu University School of Medicine) - Extranodal marginal zone B-cell lymphoma
Oman (Sultanate of Oman) - Lymphoepithelial-like carcinoma with focal squamous differentiation
Puerto Rico (University of Puerto Rico) - Lymphoepithelioma (2)
Qatar (Hamad Medical Corporation) - Lymphoepithelial lesions
Spain (Povisa) - Lymphoepithelioma-like carcinoma

Case 6 - Diagnosis:

Lymphoepithelial carcinoma (high grade squamous carcinoma with abundant lymphoid infiltrate), parotid gland
T-55100, M-8082/3

Case 6 - References:

- Choi HR, Roberts DB, Johnigan RH, et al: Molecular And Clinicopathologic Comparisons Of Head And Neck Squamous Carcinoma Variants: Common And Distinctive Features Of Biologic Significance. *Am J Surg Pathol*, 2004 Oct; 28(10):1299-310.
- Yoshihara T, Nomoto M, Hayasaki K, et al: Primary Squamous Cell Carcinoma Of The Parotid Gland: A Case Report With Electron Microscopic Findings. *Auris Nasus Larynx*, 1989; 16(1):43-50.
- Spitz MR, Batsakis JG: Major Salivary Gland Carcinoma: Descriptive Epidemiology And Survival In 498 Patients. *Arch Otolaryngol*, 1984 Jan; 110(1):45-49.

Batsakis JG: Primary Squamous Cell Carcinoma Of Major Salivary Glands. *Ann Otol Rhinolaryngol*, 1983 Jan-Feb; 92(1 Pt 1):97-8.

Redondo C, Garcia A, Vazquez F: Malignant Lymphoepithelial Lesion Of The Parotid Gland: Poorly-Differentiated Squamous Cell Carcinoma With Lymphoid Stroma. *Cancer*, 1981 Jul 15; 48(2):289-92.

Case No. 7 - Accession No. 23924

January, 2006

Escondido - Sebaceous lymphadenoma
Glendale - Cystadenoma vs Warthin's tumor
Long Beach Memorial Medical Center - Warthin's tumor
San Francisco (San Francisco General Hospital) - Warthin's tumor
Arkansas (University of Arkansas Medical Center) - Lymphoepithelial (branchiogenic) cyst, parotid gland
Florida (Winter Haven Hospital) - Benign lymphoepithelial cyst (2); Warthin's tumor (1)
Georgia, Decatur - lymphoepithelioid cyst
Illinois (Heartland Regional Medical Center) - Warthin's tumor
Kansas (Coffeyville Regional Medical Center) - Papillary cystadenoma lymphomatosum (Warthin's tumor)
Kansas (Peterson Laboratory Services) - Warthin's tumor
Kentucky (University of Louisville Hospital) - Warthin's tumor vs lymphoepithelial cyst
Maryland (Johns Hopkins Medical Institute) - Lymphoepithelial cyst
Maryland (National Naval Medical Center) - Lymphoepithelial cyst
Maryland (University of Maryland Medican Center) - Warthin's tumor
Michigan (Henry Ford Hospital Residents) - Lymphoepithelial cyst
Michigan (Pathology Services) - Warthin's tumor
Missouri (Ferguson Medical Labs) - Warthin's tumor (papillary cystadenoma lymphomatosum)
New York (Nassau University Medical Center) - Sebaceous lymphadenoma
New York SUNY Downstate - Lymphoepithelial cyst; Infarcted Warthin's tumor
New York (SUNY Stony Brook Residents) - Lymphoepithelial cyst
New York (Westchester Medical Center) - Lymphoepithelial cyst/Warthin's tumor
North Carolina (Womack Army Medical Center) - Lymphoepithelial cyst (1); Mucoepidermoid carcinoma (3)
Ohio (Medical University of Ohio) - Branchial cleft cyst
Pennsylvania (Allegheny General Hospital) - Warthin's tumor
Pennsylvania (Drexel University College of Medicine) - Lymphoepithelial cyst
Pennsylvania (Memorial Medical Center) - Lymphoepithelial cyst
Texas (Baylor College of Medicine) - Warthin's tumor
Texas (Scott & White Hospital) - Sebaceous lymphadenoma
Texas, Crystal Beach - Papillary cystadenoma lymphomatosum (Warthin's tumor)
Texas, Lubbock - Warthin's tumor
Texas, San Antonio - Warthin's tumor
West Virginia (Wetzel County Hospital) - Warthin's tumor
Wisconsin (Marshfield Clinic) - Warthin's tumor
Australia (Sullivan Nicolaidis Pathology) - Lymphoepithelial cyst
Brazil (APEMG) - Mucoepidermoid carcinoma, low grade
Canada (Pasqua Hospital) - Lymphoepithelial cyst
China (Sir Run Run Shaw Hospital) - Warthin's tumor
Japan (Gunma University Hospital) - Warthin's tumor
Japan (Hamamatsu University School of Medicine) - Lymphoepithelial cyst
Oman (Sultanate of Oman) - Multilocular lymphoepithelial cyst with features suggestive of HIV association
Puerto Rico (University of Puerto Rico) - Warthin's tumor (2)
Qatar (Hamad Medical Corporation) - Warthin's tumor, cystic (5); Lymphoepithelial cysts (2)
Spain (Povisa) - Warthin's tumor

Case 7 - Diagnosis:

Warthin's tumor, parotid
T-55100, M-8561/0

Director's note: Separation from lymphoepithelial cyst is difficult in this case. (drc)

Case 7 - References:

- Iwa H, Yamashita T: Local Excision Procedure For Warthin's Tumor Of The Parotid Gland. *Otolaryngol Head Neck Surg*, 2005 Apr; 132(4):577-80.
- Paris J, Facon F, Chrestian MA, et al: Diagnostic Management Of Warthin's Tumour: Clinical Presentation, Fine Needle Cytology, And MRI. *Rev Laryngol Otol Rhinol (Bord)*, 2004; 125(1):65-9.
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Case No. 8 - Accession No. 24773

January, 2006

Escondido - Adenoid cystic carcinoma
Glendale - Salivary duct carcinoma
Long Beach Memorial Medical Center - Adenoid cystic carcinoma
San Francisco (San Francisco General Hospital) - Adenoid cystic carcinoma
Arkansas (University of Arkansas Medical Center) - Salivary duct carcinoma, submandibular gland
Florida (Winter Haven Hospital) - Polymorphic (1) low grade adenocarcinoma (2); Adenoid cystic carcinoma (1)
Georgia, Decatur - Salivary duct carcinoma (? Ex pleomorphic adenoma)
Illinois (Heartland Regional Medical Center) - Adenoid cystic carcinoma
Kansas (Coffeyville Regional Medical Center) - Adenoid cystic carcinoma
Kansas (Peterson Laboratory Services) - Adenoid cystic carcinoma
Kentucky (University of Louisville Hospital) - Adenoid cystic carcinoma
Maryland (Johns Hopkins Medical Institute) - Adenoid cystic carcinoma
Maryland (National Naval Medical Center) - Salivary duct carcinoma (5); Adenoid cystic carcinoma (3)
Maryland (University of Maryland Medical Center) - Ductal carcinoma
Michigan (Henry Ford Hospital Residents) - Salivary Duct carcinoma
Michigan (Pathology Services) - Adenoid cystic carcinoma
Missouri (Ferguson Medical Labs) - Adenoid cystic carcinoma
New York (Nassau University Medical Center) - Salivary duct carcinoma, comedo type
New York SUNY Downstate - Salivary duct carcinoma, cribriform type
New York (SUNY Stony Brook Residents) - Adenocarcinoma, NOS
New York (Westchester Medical Center) - Salivary duct carcinoma
North Carolina (Womack Army Medical Center) - Adenoid cystic carcinoma (4)
Ohio (Medical University of Ohio) - Adenoid cystic carcinoma
Pennsylvania (Allegheny General Hospital) - Adenoid cystic carcinoma
Pennsylvania (Drexel University College of Medicine) - Salivary duct carcinoma
Pennsylvania (Memorial Medical Center) - Adenoid cystic carcinoma
Texas (Baylor College of Medicine) - Adenoid cystic carcinoma
Texas (Scott & White Hospital) - Adenoid cystic carcinoma
Texas, Crystal Beach - Basal cell adenocarcinoma (looks like salivary duct carcinoma but 10-year duration incompatible)
Texas, Lubbock - Adenoid cystic carcinoma
Texas, San Antonio - Adenoid cystic carcinoma
West Virginia (Wetzel County Hospital) - Adenoid cystic carcinoma
Wisconsin (Marshfield Clinic) - Adenoid cystic carcinoma
Australia (Sullivan Nicolaides Pathology) - Adenoid cystic carcinoma
Brazil (APEMG) - High-grade adenoid cystic carcinoma (dedifferentiated)
Canada (Pasqua Hospital) - Salivary duct carcinoma
China (Sir Run Run Shaw Hospital) - Ductal carcinoma
Japan (Gunma University Hospital) - Adenoid cystic carcinoma
Japan (Hamamatsu University School of Medicine) - Adenoid cystic carcinoma
Oman (Sultanate of Oman) - Salivary duct carcinoma
Puerto Rico (University of Puerto Rico) - Salivary duct carcinoma (2)
Qatar (Hamad Medical Corporation) - Mucoepidermoid carcinoma (low grade) (5); Carcinoma ex pleomorphic adenoma (2)
Spain (Povisa) - Ductal type carcinoma with focal apocrine features

Case 8 - Diagnosis:

Adenoid cystic carcinoma, submandibular gland T-55300, M-8200/3

Case 8 - References:

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Case No. 9 - Accession No. 13172

January, 2006

Escondido - Leiomyosarcoma
Glendale - Spindled rhabdomyosarcoma
Long Beach Memorial Medical Center - Embryonal rhabdomyosarcoma
San Francisco (San Francisco General Hospital) - Rhabdomyosarcoma
Arkansas (University of Arkansas Medical Center) - Embryonal rhabdomyosarcoma, sinonasal area
Florida (Winter Haven Hospital) - Rhabdomyosarcoma (3), embryonal (1)
Georgia, Decatur - Embryonal rhabdomyosarcoma
Illinois (Heartland Regional Medical Center) - Embryonal rhabdomyosarcoma
Kansas (Coffeyville Regional Medical Center) - Rhabdomyosarcoma, embryonal type
Kansas (Peterson Laboratory Services) - Rhabdomyosarcoma
Kentucky (University of Louisville Hospital) - Embryonal rhabdomyosarcoma
Maryland (Johns Hopkins Medical Institute) - Embryonal rhabdomyosarcoma
Maryland (National Naval Medical Center) - Rhabdomyosarcoma, embryonal type
Maryland (University of Maryland Medican Center) - Rhabdomyosarcoma
Michigan (Henry Ford Hospital Residents) - Rhabdomyosarcoma
Michigan (Pathology Services) - Rhabdomyosarcoma
Missouri (Ferguson Medical Labs) - Malignant spindle cell sarcoma, favor embryonal rhabdomyosarcoma, spindle cell variant
New York (Nassau University Medical Center) - Sarcoma, likely rhabdomyosarcoma
New York SUNY Downstate - Infantile rhabdomyofibrosarcoma; rhabdomyosarcoma; fibrosarcoma
New York (SUNY Stony Brook Residents) - Spindle cell rhabdomyosarcoma
New York (Westchester Medical Center) - Embryonal rhabdomyosarcoma
North Carolina (Womack Army Medical Center) - Rhabdomyosarcoma (4)
Ohio (Medical University of Ohio) - Embryonal rhabdomyosarcoma
Pennsylvania (Allegheny General Hospital) - Embryonal rhabdomyosarcoma, spindle cell type
Pennsylvania (Drexel University College of Medicine) - Rhabdomyosarcoma, botryoid type
Pennsylvania (Memorial Medical Center) - Rhabdomyosarcoma
Texas (Baylor College of Medicine) - Rhabdomyosarcoma
Texas (Scott & White Hospital) - Embryonal rhabdomyosarcoma
Texas, Crystal Beach - Sarcoma (possibly smooth muscle type)
Texas, Lubbock - Embryonal rhabdomyosarcoma
Texas, San Antonio - Embryonal rhabdomyosarcoma
West Virginia (Wetzel County Hospital) - Embryonal rhabdomyosarcoma
Wisconsin (Marshfield Clinic) - Fetal rhabdomyosarcoma
Australia (Sullivan Nicolaides Pathology) - Embryonal rhabdomyosarcoma
Brazil (APEMG) - Embryonal rhabdomyosarcoma
Canada (Pasqua Hospital) - Rhabdomyosarcoma
China (Sir Run Run Shaw Hospital) - Spindle cell sarcoma
Japan (Gunma University Hospital) - Embryonal rhabdomyosarcoma
Japan (Hamamatsu University School of Medicine) - Embryonal rhabdomyosarcoma
Oman (Sultanate of Oman) - Rhabdomyosarcoma (embryonal type)

Puerto Rico (University of Puerto Rico) - Rhabdomyosarcoma, subtype embryonal (2)
Qatar (Hamad Medical Corporation) - Embryonal rhabdomyosarcoma
Spain (Povisa) - Embryonal-type rhabdomyosarcoma

Case 9 - Diagnosis:

**Embryonal rhabdomyosarcoma, sinonasal area
T-21310, M-8910/3**

Case 9 - References:

Wurm J, Constantinidis J, Grabenbauer GG, Iro H: Rhabdomyosarcomas Of The Nose And Paranasal Sinuses: Treatment Results In 15 Cases. *Otolaryngol Head Neck Surg*, 2005 Jul; 133(1):42-50.
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Case No. 10 - Accession No. 30161

January, 2006

Escondido - Leiomyoma
Glendale - Leiomyoma
Long Beach Memorial Medical Center - Nodular fasciitis
San Francisco (San Francisco General Hospital) - Chondromyxoid fibroma
Arkansas (University of Arkansas Medical Center) - Nodular fasciitis, neck
Florida (Winter Haven Hospital) - Fasciitis (3), nodular (2)
Georgia, Decatur - Schwannoma
Illinois (Heartland Regional Medical Center) - Leiomyoma
Kansas (Coffeyville Regional Medical Center) - Clear cell sarcoma, low grade
Kansas (Peterson Laboratory Services) - Nodular fasciitis
Kentucky (University of Louisville Hospital) - Low-grade myofibroblastic sarcoma
Maryland (Johns Hopkins Medical Institute) - Inflammatory myofibroblastic tumor vs intranodal pallasided myofibroblastoma
Maryland (National Naval Medical Center) - Nodular fasciitis (5); Spindle cell myoeipithelioma (1)
Maryland (University of Maryland Medican Center) - Palisaded myofibroblastic tumor vs leiomyosarcoma
Michigan (Henry Ford Hospital Residents) - Leiomyoma
Michigan (Pathology Services) - Myoeipithelial sarcoma
Missouri (Ferguson Medical Labs) - Leiomyoma (intravascular ?)
New York (Nassau University Medical Center) - Leiomyomatous lesion
New York SUNY Downstate) - Benign myofibroblastic lesion; leiomyoma
New York (SUNY Stony Brook Residents) - Palisading myofibroblastoma
New York (Westchester Medical Center) - Smooth muscle tumor of low malignant potential
North Carolina (Womack Army Medical Center) - Nodular fasciitis (4)
Ohio (Medical University of Ohio) - Inflammatory myofibroblastic tumor
Pennsylvania (Allegheny General Hospital) - Myoeipithelioma
Pennsylvania (Drexel University College of Medicine) - Low grade leiomyosarcoma/cellular leiomyoma
Pennsylvania (Memorial Medical Center) - Palisaded myofibroblastoma
Texas (Baylor College of Medicine) - Intravascular fasciitis
Texas (Scott & White Hospital) - Nodular fasciitis
Texas, Crystal Beach - Nodular fasciitis
Texas, Lubbock - Leiomyoma
Texas, San Antonio - Myofibroblastic lesion
West Virginia (Wetzel County Hospital) - Leiomyoma
Wisconsin (Marshfield Clinic) - Fibromatosis
Australia (Sullivan Nicolaides Pathology) - Palisaded myofibroblastoma of lymph node
Brazil (APEMG) - Palisaded myofibroblastoma of lymph node
Canada (Pasqua Hospital) - Myofibroblastoma

China (Sir Run Run Shaw Hospital) - Inflammatory myofibroblastoma
Japan (Gunma University Hospital) - Nodular fasciitis
Japan (Hamamatsu University School of Medicine) - Leiomyoma
Oman (Sultanate of Oman) - Palisaded myofibroblastoma
Puerto Rico (University of Puerto Rico) - Leiomyoma/Fibromatosis/Inflammatory pseudotumor (2)
Qatar (Hamad Medical Corporation) - Benign myofibroblastic tumor – nodular fasciitis
Spain (Povisa) - Nodular fasciitis

Case 10 - Diagnosis:

**Palisaded myofibroblastoma (intranodal hemorrhagic spindle cell tumor with amorphous
fibers), neck
T-Y0600, M-76100**

Case 10 - References:

Kleist B, Poetsch M, Schmoll J: Intranodal Palisaded Myofibroblastoma With Overexpression Of Cyclin D-1. *Arch Pathol Lab Med*, 2003 Aug; 127(8):1040-3.
Herrera GA, Johnson WW, Lockard VG, Walker BL: Soft Tissue Myofibroblastomas. *Mod Pathol*, 1991 Sep; 4(5):571-7.