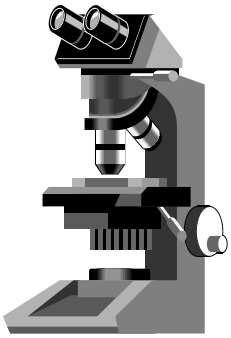
CALIFORNIA
TUMOR TISSUE REGISTRY

HEAD AND NECK PATHOLOGY

Minutes – Subscription A

January, 2006



SUGGESTED READING (General Topics from Recent Literature):

The Use of Combined PET/CT for Localizing Recurrent Head and Neck Cancer. The Pittsburgh Experience. Zimmer LA, Snyderman C, Fukui B, et al. *ENT-Ear, Nose & Throat Journal* 2005; 104-110.
Porphyrias. Kauppinen R. *Lancet* 2005; 365:241-252.
Cell Proliferation. A Matter of Time and Place. *Surg* 2005; 1-7.
Sudden Death in Young Adults. A 25-Year Review of Autopsies in Military Recruits. Eckart RE, Scoville SL, Campbell CL, et al. *Ann of Inter Med* 2004; 141(11):829-834.
Microarrays and Molecular Research. Noise Discovery. *Lancet* 2005; 454-455.
Nanotechnology and Molecular Homeostasis. *JAGS* 2005; 53(9):S295-S298.

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FILE DIAGNOSES

CTTR Subscription A January, 2006

Case 1:
Basal cell adenoma ("monomorphic adenoma"), parotid
T-55100, M-81470

Case 2:
Adenoid cystic carcinoma, submandibular gland
T-55300, M-82003

Case 3:
Warthin's tumor, parotid gland
T-55106, M-85610

Case 4:
Pleomorphic sarcoma ("MFH"), parotid
T-55100, M-88303

Case 5:
Mucoepidermoid carcinoma, tonsil
T-61100, M-84303

Case 6:
Pleomorphic adenoma, parotid gland
T-55120, M-89400

Case 7:
Malignant mixed tumor, parotid gland
T-55110, M-89403

Case 8:
Salivary duct carcinoma, parotid gland
T-89400, M-80103

Case 9:
Metastatic papillary thyroid carcinoma, neck lymph node
T-Y0600, M-80103

Case 10:
Sebaceous lymphadenoma, parotid gland
T-80103, M-84100

Case No. 1, Accession No. 24599 **January 2006**

Arcadia (Garfield Medical Center) - Adenomyofibroma
Baldwin Park (Kaiser Permanente) - Canalicular adenoma (1); Monomorphic adenoma (2)
Glendale - Monomorphic adenoma
Hayward/Fremont (St. Rose Hospital) - Basal cell adenoma
Long Beach Chapter (Lakewood Regional Medical Center) - Basaloid adenoma (9)
Long Beach (Long Beach Memorial Medical Center) - Basal cell adenoma
Monterey Park (Monterey Peninsula Pathologists) - Basal cell adenoma
Mountain View (El Camino Pathology) - Monomorphic adenoma
Orange (Orange County Medical Group) - Monomorphic adenoma
Oxnard (St. John's Regional Medical Center) - Basal cell adenoma
San Diego (Naval Medical Center) - Basal cell adenoma (2) (cannot rule out basal cell adenocarcinoma)
San Francisco (San Francisco General Hospital) - Myoepithelioma
Santa Rosa (Santa Rosa Memorial Hospital) - Basal cell adenoma (3)
Woodland Hills - Basal cell adenoma, trabecular type (1); Epithelial-myoepithelial carcinoma (1);
Arkansas (University of Arkansas Medical Center) - Cellular mixed tumor, parotid gland
Colorado, Evergreen - Basal cell adenoma
Florida (Jackson Memorial Hospital) - Basal cell adenoma
Florida, Tallahassee - Monomorphic adenoma
Florida (Winter Haven Hospital) - Basal cell adenoma (1); Basaloid adenoma (2)
Illinois, Burr Ridge - Polymorphous low grade adenocarcinoma
Illinois (Evanston Hospital) - Cellular mixed tumor
Illinois (Fairview Ridges Hospital) - Cellular pleomorphic adenoma
Illinois (Loyola University Medical Center) - Basal cell adenoma, trabecular type
Illinois (Naval Hospital Great Lakes) - Basal cell adenoma
Illinois, Oak Brook - Pleomorphic adenoma
Indiana (Kokamo Pathologist Health Systems) - Trabecular/tubular adenoma
Louisiana (Orleans Parish Coroners Office) - Basal cell adenoma
Maryland (National Naval Medical Center) - Basal cell adenoma
Maryland (Northwestern Hospital Center) - Basal cell adenoma
Maryland (University of Maryland) - Monomorphic adenoma
Massachusetts (New England Medical Center) - Basal cell adenoma
Michigan, Kalamazoo - Canalicular monomorphic adenoma
Michigan (Oakwood Hospital) - Basal cell adenoma
Michigan (Pathology Services West Michigan) - Basaloid adenoma
Nebraska (Creighton University School of Medicine) - Basal cell (monomorphic) adenoma
New York (Long Island Jewish Medical Center) - Basal cell adenoma
New York (Nassau University Medical Center) - Pleomorphic adenoma
New York (New York Stony Brook University Residents) - Basal cell adenoma
New York (SUNY Downstate Residents) - Monomorphic adenoma
New York (Westchester Medical Center) - Basal cell adenoma
North Carolina (Mountain Area Pathology) - Basal cell adenoma (3)
Ohio (McCullough Hyde Memorial Hospital) - Canalicular adenoma
Oklahoma (Heartland Pathology Consultants) - Basal cell adenoma
Oklahoma, Oklahoma City - Basaloid adenocarcinoma
Pennsylvania (Allegheny General Hospital) - Basal cell adenoma
Pennsylvania (Conemaugh Memorial Medical Center) - Basal cell adenoma
Pennsylvania (Drexel University College of Medicine) - Basal cell adenoma
Pennsylvania (Mt Nittany Medical Center) - Basal cell adenoma
Pennsylvania (Pennsylvania Hospital Residents) - Monomorphic adenoma (basal cell)
Puerto Rico (University of Puerto Rico) - Basal cell adenoma (2)

Tennessee - Polymorphus low grade carcinoma
Texas, Crystal Beach - Basal cell adenoma
Texas, Lubbock - Myoepithelioma
Texas (Propath Associates) - Basal cell adenoma (2)
Texas (Scott & White Memorial Hospital) - Basal cell adenoma
West Virginia (Greenbrier Valley Medical Center) - Basal cell adenoma
West Virginia (Wetzel County Hospital) - Basal cell adenoma
Wisconsin (Bellin Health) - Basal cell adenoma
Wisconsin (Meriter Hospital) - Monomorphic adenoma
Wisconsin (Pathology Associates) - Basal cell adenoma (2)
Australia (Royal Prince Alfred Hospital) - Basal cell adenoma
Australia (Sullivan Nicolaides Pathology) - Myoepithelioma
Brazil (Minas Gerais School of Medicine) - Polymorphous low-grade adenocarcinoma (1); Basal cell adenoma (1)
Germany (UKE, Kerninstitut fur Pathologie) - Basal cell adenoma
Jamaica (The University of the West Indies) - Squamous cell carcinoma, poorly differentiated
Japan (Kyoto University Hospital) - Basal cell adenoma
New Zealand (Otago Diagnostic Laboratories) - Basal cell adenoma
Oman (Sultanate of Oman) - Pleomorphic adenoma
Qatar (Hamad Medical Corporation) - Monomorphic adenoma

Case 1 - Diagnosis:

Basal cell adenoma ("monomorphic adenoma"), parotid
T-55100, M-81470

Case 1 – References:

Mintz GA, Abrams AM and Melrose RJ. Monomorphic Adenomas of the Major and Minor Salivary Glands. Report of Twenty-One Cases and Review of the Literature. *Oral Surg Oral Med Oral Path* 1982; 53(4):375-386.
Crumpler C, Scharfenberg JC and Reed RJ. Monomorphic Adenomas of Salivary Glands. Trabecular-Tubular, Canalicular and Basaloid Variants. *Cancer* 1976; 38(1):193-200.
Canalis RF, Mok MW, Fishman SM, et al. Congenital Basal Cell Adenoma of the Submandibular Gland. *Arch Otolaryngol* 1980; 106(5):284-286.
Ferreiro JA. Immunohistochemical Analysis of Salivary Gland Canalicular Adenoma. *Oral Surg, Oral Med Oral Pathol* 1994; 78(6):761-765.

Case No. 2, Accession No. 13150 January 2006

Arcadia (Garfield Medical Center) - Adenoid cystic carcinoma
Baldwin Park (Kaiser Permanente) - Adenoid cystic carcinoma (3)
Glendale - Adenoid cystic carcinoma
Hayward/Fremont (St. Rose Hospital) - Adenoid cystic carcinoma
Long Beach Chapter (Lakewood Regional Medical Center) - Adenoid cystic carcinoma (9)
Long Beach (Long Beach Memorial Medical Center) - Myoepithelioma (3); Adenoid cystic carcinoma (5)
Monterey Park (Monterey Peninsula Pathologists) - Adenoid cystic carcinoma
Mountain View (El Camino Pathology) - Adenoid cystic carcinoma
Orange (Orange County Medical Group) - Adenoid cystic carcinoma
Oxnard (St. John's Regional Medical Center) - Adenoid cystic carcinoma
San Diego (Naval Medical Center) - Adenoid cystic carcinoma (2)
San Francisco (San Francisco General Hospital) - Adenoid cystic carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Adenocystic carcinoma (3)
Woodland Hills - Adenoid cystic carcinoma (2)
Arkansas (University of Arkansas Medical Center) - Adenoid cystic carcinoma, submandibular gland
Colorado, Evergreen - Adenoid cystic carcinoma
Florida (Jackson Memorial Hospital) - Adenoid cystic carcinoma

Florida, Tallahassee - Adenoid cystic adenoma
Florida (Winter Haven Hospital) - Acinic cell carcinoma (2); Adenoid cystic carcinoma (1)
Illinois, Burr Ridge - Adenoid cystic carcinoma
Illinois (Evanston Hospital) - Adenoid cystic carcinoma
Illinois (Fairview Ridges Hospital) - Adenoid cystic carcinoma, cribiform, tubular
Illinois (Loyola University Medical Center) - Adenoid cystic carcinoma
Illinois (Naval Hospital Great Lakes) - Mixed tumor
Illinois, Oak Brook - Adenoid cystic carcinoma
Indiana (Kokamo Pathologist Health Systems) - Adenoid cystic carcinoma
Louisiana (Orleans Parish Coroners Office) - Adenoid cystic carcinoma
Maryland (National Naval Medical Center) - Adenoid cystic
Maryland (Northwestern Hospital Center) - Adenoid cystic carcinoma
Maryland (University of Maryland) - Adenoid cystic carcinoma
Massachusetts (New England Medical Center) - Adenoid cystic carcinoma
Michigan, Kalamazoo - Basal cell adenoma, membranous type
Michigan (Oakwood Hospital) - Adenoid cystic carcinoma
Michigan (Pathology Services West Michigan) - Adenoid cystic carcinoma
Nebraska (Creighton University School of Medicine) - Adenoid cystic carcinoma
New York (Long Island Jewish Medical Center) - Adenoid cystic carcinoma
New York (Nassau University Medical Center) - Adenoid cystic carcinoma
New York (New York Stony Brook University Residents) - Adenoid cystic carcinoma
New York (SUNY Downstate Residents) - Adenoid cystic carcinoma
New York (Westchester Medical Center) - Adenoid cystic carcinoma
North Carolina (Mountain Area Pathology) - Adenoid cystic carcinoma (3)
Ohio (McCullough Hyde Memorial Hospital) - Adenoid cystic carcinoma
Oklahoma (Heartland Pathology Consultants) - Adenoid cystic carcinoma
Oklahoma, Oklahoma City - Adenoid cystic carcinoma
Pennsylvania (Allegheny General Hospital) - Adenoid cystic carcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Adenoid cystic carcinoma
Pennsylvania (Drexel University College of Medicine) - Adenoid cystic carcinoma, cribriform pattern
Pennsylvania (Mt Nittany Medical Center) - Adenoid cystic carcinoma
Pennsylvania (Pennsylvania Hospital Residents) - Adenoid cystic carcinoma
Puerto Rico (University of Puerto Rico) - Adenoid cystic carcinoma (2)
Tennessee - Adenoid cystic carcinoma
Texas, Crystal Beach - Adenoid cystic carcinoma
Texas, Lubbock - Adenoid cystic carcinoma
Texas (Propath Associates) - Adenoid cystic adenocarcinoma (2)
Texas (Scott & White Memorial Hospital) - Adenoid cystic carcinoma
West Virginia (Greenbrier Valley Medical Center) - Adenoid cystic carcinoma
West Virginia (Wetzel County Hospital) - Adenoid cystic carcinoma
Wisconsin (Bellin Health) - Pleomorphic adenoma
Wisconsin (Meriter Hospital) - Adenoid cystic carcinoma
Wisconsin (Pathology Associates) - Adenoid cystic carcinoma (2)
Australia (Royal Prince Alfred Hospital) - Adenoid cystic carcinoma
Australia (Sullivan Nicolaides Pathology) - Adenoid cystic carcinoma
Brazil (Minas Gerais School of Medicine) - Adenoid cystic carcinoma, low-grade
Germany (UKE, Kerninstitut fur Pathologie) - Membranous type basal cell ad
Jamaica (The University of the West Indies) - Adenoid cystic carcinoma
Japan (Kyoto University Hospital) - Adenoid cystic carcinoma
New Zealand (Otago Diagnostic Laboratories) - Adenoid cystic carcinoma
Oman (Sultanate of Oman) - Adenoid cystic carcinoma
Qatar (Hamad Medical Corporation) - Adenoid cystic carcinoma

Case 2 - Diagnosis:

Adenoid cystic carcinoma, submandibular gland
T-55300, M-82003

Case 2 - References:

Sur RK, Donde B, Levin V., et al. Adenoid Cystic Carcinoma of the Salivary Glands. A Review of 10 Years. *Laryngoscope* 1997; 107(9):1276-1280.

Friedrich RE and Bleckmann V. Adenoid Cystic Carcinoma of Salivary and Lacrimal Gland Origin. Localization, Classification, Clinical Pathological Correlation, Treatment Results and Long-Term Follow-Up Control in 84 Patients. *Anticancer Res* 2003; 23(2A):931-940.

Spiro RH. Distant Metastasis in Adenoid Cystic Carcinoma of Salivary Origin. *Am J Surg* 1997; 174(5):495-498.

Case No. 3, Accession No. 12899 January 2006

Arcadia (Garfield Medical Center) - Warthin's tumor
Baldwin Park (Kaiser Permanente) - Warthin's tumor (3)
Glendale - Warthin's tumor
Hayward/Fremont (St. Rose Hospital) - Warthin's tumor
Long Beach Chapter (Lakewood Regional Medical Center) - Warthin's tumor (9)
Long Beach (Long Beach Memorial Medical Center) - Warthin's tumor
Monterey Park (Monterey Peninsula Pathologists) - Warthin's tumor
Mountain View (El Camino Pathology) - Warthin's tumor
Orange (Orange County Medical Group) - Warthin's tumor
Oxnard (St. John's Regional Medical Center) - Warthin's tumor
San Diego (Naval Medical Center) - Warthin's tumor (2)
San Francisco (San Francisco General Hospital) - Warthin's tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Warthin's tumor (3)
Woodland Hills - Warthin's tumor (1); Papillary cystadenoma lymphomatosum, Warthin's tumor (1)
Arkansas (University of Arkansas Medical Center) - Warthin's tumor, parotid gland
Colorado, Evergreen - Warthin's tumor
Florida (Jackson Memorial Hospital) - Warthin's tumor
Florida, Tallahassee - Warthin's tumor
Florida (Winter Haven Hospital) - Warthin's tumor (3)
Illinois, Burr Ridge - Warthin's tumor
Illinois (Evanston Hospital) - Warthin's tumor
Illinois (Fairview Ridges Hospital) - Warthin's tumor
Illinois (Loyola University Medical Center) - Warthin's tumor
Illinois (Naval Hospital Great Lakes) - Warthin's tumor
Illinois, Oak Brook - Warthin's tumor
Indiana (Kokamo Pathologist Health Systems) - Warthin's tumor
Louisiana (Orleans Parish Coroners Office) - Warthin's tumor
Maryland (National Naval Medical Center) - Warthin's tumor
Maryland (Northwestern Hospital Center) - Warthin's tumor
Maryland (University of Maryland) - Warthin's tumor
Massachusetts (New England Medical Center) - Warthin's tumor
Michigan, Kalamazoo - Warthin's tumor
Michigan (Oakwood Hospital) - Warthin's tumor
Michigan (Pathology Services West Michigan) - Warthin's tumor
Nebraska (Creighton University School of Medicine) - Warthin's tumor
New York (Long Island Jewish Medical Center) - Warthin's tumor
New York (Nassau University Medical Center) - Warthin's tumor
New York (New York Stony Brook University Residents) - Warthin's tumor

New York (SUNY Downstate Residents) - Warthin's tumor
New York (Westchester Medical Center) - Warthin's tumor
North Carolina (Mountain Area Pathology) - Warthin's tumor (3)
Ohio (McCullough Hyde Memorial Hospital) - Warthin's tumor
Oklahoma (Heartland Pathology Consultants) - Warthin's tumor
Oklahoma, Oklahoma City - Warthin's tumor
Pennsylvania (Allegheny General Hospital) - Warthin's tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Warthin's tumor
Pennsylvania (Drexel University College of Medicine) - Warthin's tumor
Pennsylvania (Mt Nittany Medical Center) - Warthin's tumor
Pennsylvania (Pennsylvania Hospital Residents) - Warthin's tumor
Puerto Rico (University of Puerto Rico) - Warthin's tumor (2)
Tennessee - Warthin's tumor
Texas, Crystal Beach - Warthin's tumor
Texas, Lubbock - Warthin's tumor
Texas (Propath Associates) - Warthin's tumor (2)
Texas (Scott & White Memorial Hospital) - Warthin's tumor
West Virginia (Greenbrier Valley Medical Center) - Papillary cystadenoma lymphomatosum, (Warthin's)
West Virginia (Wetzel County Hospital) -Warthin's tumor
Wisconsin (Bellin Health) - Warthin's tumor
Wisconsin (Meriter Hospital) - Warthin's tumor
Wisconsin (Pathology Associates) - Warthin's tumor (2)
Australia (Royal Prince Alfred Hospital) - Warthin's tumour
Australia (Sullivan Nicolaides Pathology) - Warthin's tumour
Brazil (Minas Gerais School of Medicine) - Warthin's tumor
Germany (UKE, Kerninstitut fur Pathologie) - Warthin's tumor
Jamaica (The University of the West Indies) - Warthin's tumour
Japan (Kyoto University Hospital) - Warthin's tumor (adenolymphoma)
New Zealand (Otago Diagnostic Laboratories) - Warthin's tumour
Oman (Sultanate of Oman) - Warthin's tumour
Qatar (Hamad Medical Corporation) - Warthin's tumor

Case 3 - Diagnosis:

Warthin's tumor, parotid gland
T- 55106, M-85610

Case 3 - References:

Batori M, Mariotta G, Giovannone G, et al. Warthin's Tumor of Parotid Gland. Treatment of a Retroneural Lesion by Enucleation. *Eur Rev Med Pharmacol Sci* 2002; 6(5):105-111.

Marioni G, Marchese-Ragona R, Marino F, et al. MALT-Type Lymphoma and Warthin's Tumour Presenting in the Same Parotid Gland. *Acta Otolaryngo* 2004; 124(3):318-323.

Starek I, Skalova A and Tichy T. Histopathologic Changes in Parotid Gland Parenchyma After Fine Needle Aspiration Biopsy of a Warthin's Tumour. A Case Report. *Pathol Res Pract* 2002; 198(12):829-832.

Sadahira C, Matsuota Y, Numahara T, et al. A Case of Ulcerative Warthin's Tumor. *J Dermatol* 2004; 31(9):779-781.

Skalova A, Michal M and Nathansky Z. Epidermoid Carcinoma Arising in Warthin's Tumour. A Case Study. *J Oral Pathol Med* 1994; 23(7):330-333.

Lumerman H, Freedman P, Caracciolo P, et al. Synchronous Malignant Mucoepidermoid Tumor of the Parotid Gland and Warthin's Tumor in Adjacent Lymph Node. *Oral Surg Oral Med Oral Pathol* 1975; 39(6):953-958.

Case No. 4, Accession No. 23916 January 2006

Arcadia (Garfield Medical Center) - Malignant fibrous histiocytoma, pleomorphic type

Baldwin Park (Kaiser Permanente) - Malignant peripheral nerve sheath tumor (3)
Glendale - Myxofibrosarcoma
Hayward/Fremont (St. Rose Hospital) - Giant cell angiofibroma (SFT with giant cells)
Long Beach Chapter (Lakewood Regional Medical Center) - Nodular fisciitis (9)
Long Beach (Long Beach Memorial Medical Center) - High grade myxofibrosarcoma
Monterey Park (Monterey Peninsula Pathologists) - Sarcoma
Mountain View (El Camino Pathology) - MFH vs. sarcomatoid carcinoma
Orange (Orange County Medical Group) - ? fibrohistiocytic tumor
Oxnard (St. John's Regional Medical Center) - Schwannoma
San Diego (Naval Medical Center) - High grade sarcoma (pleomorphic-storiform MFH) (1); High grade sarcoma, favor myxo-fibrosarcoma (1)
San Francisco (San Francisco General Hospital) - Myxofibrosarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Malignant fibrous histiocytoma (3)
Woodland Hills - Sarcoma vs. spindle cell carcinoma (needs IHC) (1); Malignant spindle cell neoplasm (not nodular fasciitis); Immuno, MFH vs MPNST vs myxoMFH (1)
Arkansas (University of Arkansas Medical Center) - Pleomorphic sarcoma (MFH), parotid area
Colorado, Evergreen - Malignant peripheral nerve sheath tumor
Florida (Jackson Memorial Hospital) - High grade sarcoma
Florida, Tallahassee - MFH, sarcoma, nodular fasciitis
Florida (Winter Haven Hospital) - Giant cell fibroblastoma (1); Fasciitis (1); Giant cell fibroblastoma (1)
Illinois, Burr Ridge - Giant cell tumor
Illinois (Evanston Hospital) - Myofibroblastic tumor
Illinois (Fairview Ridges Hospital) - Pleomorphic sarcoma (MFH-like)
Illinois (Loyola University Medical Center) - Malignant peripheral nerve sheath tumor
Illinois (Naval Hospital Great Lakes) - Sarcoma, NOS (possibly dedifferentiated liposarcoma)
Illinois, Oak Brook - Fibro-histiocytic tumor of intermediate malignancy
Indiana (Kokamo Pathologist Health Systems) - Plexiform neurofibroma
Louisiana (Orleans Parish Coroners Office) - Schwannoma
Maryland (National Naval Medical Center) - Sarcoma, NOS
Maryland (Northwestern Hospital Center) - Sarcomatoid tumor
Maryland (University of Maryland) - Soft tissue sarcoma (probably malignant solitary fibrous tumor) do immunostains to rule out carcinoma vs myofibrosarcoma
Massachusetts (New England Medical Center) - Ancient schwannoma, low grade spindle cell neoplasm
Michigan, Kalamazoo - Sarcoma
Michigan (Oakwood Hospital) - Liposarcoma
Michigan (Pathology Services West Michigan) - Sarcoma
Nebraska (Creighton University School of Medicine) - Malignant spindle cell tumor, NOS
New York (Long Island Jewish Medical Center) - Malignant fibrous histiocytoma
New York (Nassau University Medical Center) - Malignant mixed tumor
New York (New York Stony Brook University Residents) - Myofibroblastic sarcoma, low grade
New York (SUNY Downstate Residents) - Malignant fibrous histiocytoma, malignant low grade spindle cell neoplasm, schwanoma, nodular/proliferative fascitis
New York (Westchester Medical Center) - Inflammatory pseudotumor
North Carolina (Mountain Area Pathology) - Malignant fibrous histiocytoma (1); Sarcoma (MFH) (1); Pleomorphic sarcoma (1)
Ohio (McCullough Hyde Memorial Hospital) - Neurofibroma
Oklahoma (Heartland Pathology Consultants) - Malignant fibrous histiocytoma
Oklahoma, Oklahoma City - Malignant peripheral nerve sheath tumor
Pennsylvania (Allegheny General Hospital) - Plexiform fibrohistiocytoma tumor
Pennsylvania (Conemaugh Memorial Medical Center) - MFH vs. malignant myoepithelioma
Pennsylvania (Drexel University College of Medicine) - Schwannoma with ancient change
Pennsylvania (Mt Nittany Medical Center) - Solitary fibrous tumor
Pennsylvania (Pennsylvania Hospital Residents) - Nodular fasciitis
Puerto Rico (University of Puerto Rico) - Sarcoma, malignant peripheral nerve sheath tumor (2)
Tennessee - High grade sarcoma, probable malignant fibrous histiocytoma

Texas, Crystal Beach - Non-caseating granuloma (sarcoid?)
Texas, Lubbock - Malignant fibrous histiocytoma
Texas (Propath Associates) - Malignant schwannoma (2)
Texas (Scott & White Memorial Hospital) - High grade pleomorphic sarcoma
West Virginia (Greenbrier Valley Medical Center) - Nodular fasciitis
West Virginia (Wetzel County Hospital) - Malignant fibrous histiocytoma with osteoid formation
Wisconsin (Bellin Health) - Inflammatory pseudotumor
Wisconsin (Meriter Hospital) - Myxoid MFH
Wisconsin (Pathology Associates) - Sarcoma, NOS (1); Malignant fibrous histiocytoma (1)
Australia (Royal Prince Alfred Hospital) - Pleomorphic spindle cell tumour, favour MFH, melanoma and metaplastic carcinoma cannot be excluded
Australia (Sullivan Nicolaides Pathology) - Myxofibrosarcoma
Brazil (Minas Gerais School of Medicine) - MPNST
Germany (UKE, Kerninstitut fur Pathologie) - MFH
Jamaica (The University of the West Indies) - Malignant fibrohistiocytic tumour, pleomorphic
Japan (Kyoto University Hospital) - Malignant pleomorphic tumor (IH needed)
New Zealand (Otago Diagnostic Laboratories) - Malignant fibrous histiocytoma, immunos required
Oman (Sultanate of Oman) - Malignant fibrous histiocytoma
Qatar (Hamad Medical Corporation) - Low grade sarcoma, mostly probably MFH

Case 4 - Diagnosis:

Pleomorphic sarcoma ("MFH"), parotid
T-55100, M-88303

Case 4 - References:

Kunimura T, Ooike N, Inagaki T, et al. Malignant Fibrous Histiocytoma Arising from Paraglandular Tissue of the Parotid Gland. Otolaryngol Head Neck Surg 2003; 129(4):454-456.
Kariya S, Aoji K, Kuyama K, et al. Malignant Fibrous Histiocytoma of the Parotid Gland. Auris Nasus Larynx 2003; 30(3):315-318.
Barnes L and Kanbour A. Malignant Fibrous Histiocytoma of the Head and Neck. A Report of 12 Cases. Arch Otolaryngol Head Neck Surg 1988; 114(10):1149-1156.
van Wingerden JJ, van Rensburg PG and Coetzee BP. Malignant Fibrous Histiocytoma of the Parotid Gland Associated with Polycythemia. Head Neck Surg 1986; 8(3):218-221.

Case No. 5, Accession No. 29531 January 2006

Arcadia (Garfield Medical Center) - Acinic cell carcinoma
Baldwin Park (Kaiser Permanente) - Mucoepidermoid carcinoma (1); Squamous cell carcinoma (2)
Glendale - Mucoepidermoid carcinoma
Hayward/Fremont (St. Rose Hospital) - Squamous carcinoma
Long Beach Chapter (Lakewood Regional Medical Center) - Carcinoma, NOS (myoepithelial ?) (9)
Long Beach (Long Beach Memorial Medical Center) - High grade mucoepidermoid carcinoma
Monterey Park (Monterey Peninsula Pathologists) - Carcinoma, ex-pleomorphic adenoma
Mountain View (El Camino Pathology) - Basaloid squamous cell carcinoma
Orange (Orange County Medical Group) - Carcinoma, favor mucoepidermoid
Oxnard (St. John's Regional Medical Center) - Pleomorphic adenoma
San Diego (Naval Medical Center) - Epi-myoepithelial carcinoma (1); Adenocarcinoma, NOS (1); Mucoepidermoid carcinoma (1)
San Francisco (San Francisco General Hospital) - Myoepithelioma
Santa Rosa (Santa Rosa Memorial Hospital) - Squamous cell carcinoma (1); Invasive squamous cell carcinoma (1); Basaloid squamous cell carcinoma (1)
Woodland Hills - Squamous cell carcinoma (1); Moderately differentiated squamous cell carcinoma (1)
Arkansas (University of Arkansas Medical Center) - Carcinoma
Colorado, Evergreen - Polymorphous low grade adenocarcinoma
Florida (Jackson Memorial Hospital) - High grade mucoepidermoid carcinoma

Florida, Tallahassee - Mucoepidermoid carcinoma
Florida (Winter Haven Hospital) - Hylinizing clear cell carcinoma (1); Carcinoma, NOS (1); Clear cell carcinoma with hyalinization (1)
Illinois, Burr Ridge - Mucoepidermoid carcinoma, high grade
Illinois (Evanston Hospital) - Myoepithelial carcinoma
Illinois (Fairview Ridges Hospital) - Mucoepidermoid carcinoma, high grade
Illinois (Loyola University Medical Center) - Clear cell carcinoma, sclerotic vs. squamous cell carcinoma with sebaceous features
Illinois (Naval Hospital Great Lakes) - Lymphoepithelioma
Illinois, Oak Brook - Synovial sarcoma, biphasic
Indiana (Kokamo Pathologist Health Systems) - Mucoepidermoid carcinoma
Louisiana (Orleans Parish Coroners Office) - Mucoepidermoid carcinoma
Maryland (National Naval Medical Center) - Carcinoma, NOS (9); Lymphoepithelial carcinoma (1)
Maryland (Northwestern Hospital Center) - Mucoepidermoid carcinoma
Maryland (University of Maryland) - Hyalinizing clear cell carcinoma
Massachusetts (New England Medical Center) - High grade mucoepidermoid carcinoma
Michigan, Kalamazoo - Pleomorphic adenoma
Michigan (Oakwood Hospital) - Carcinoma, favor hyalinizing clear cell
Michigan (Pathology Services West Michigan) - Mucoepidermoid carcinoma
Nebraska (Creighton University School of Medicine) - Poorly differentiated squamous cell carcinoma
New York (Long Island Jewish Medical Center) - Hyalinizing clear cell carcinoma
New York (Nassau University Medical Center) - Mucoepidermoid carcinoma
New York (New York Stony Brook University Residents) - Synovial sarcoma
New York (SUNY Downstate Residents) - Carcinoma, low grade, mucoepidermoid, high grade, myoepithelial carcinoma, medullary carcinoma
New York (Westchester Medical Center) - Polymorphous low grade tumor
North Carolina (Mountain Area Pathology) - Carcinoma, rule out medullary carcinoma (2); Myoepithelial carcinoma (1)
Ohio (McCullough Hyde Memorial Hospital) - Malignant granular cell tumor
Oklahoma (Heartland Pathology Consultants) - Oncocytic carcinoma
Oklahoma, Oklahoma City - Squamous cell carcinoma
Pennsylvania (Allegheny General Hospital) - Adenocarcinoma, NOS
Pennsylvania (Conemaugh Memorial Medical Center) - Mucoepidermoid carcinoma, high grade
Pennsylvania (Drexel University College of Medicine) - Mucoepidermoid carcinoma, low grade
Pennsylvania (Mt Nittany Medical Center) - Mucoepidermoid carcinoma
Pennsylvania (Pennsylvania Hospital Residents) - Nasopharyngeal carcinoma
Puerto Rico (University of Puerto Rico) - Myoepithelioma/polymorphous/low-grade/adenocarcinoma (1); Malignant myoepithelioma/polymorphus low grade adenocarcinoma (1)
Tennessee - Squamous cell carcinoma
Texas, Crystal Beach - Squamous cell carcinoma
Texas, Lubbock - Poorly differentiated squamous cell carcinoma
Texas (Propath Associates) - High grade muco-epidermoid carcinoma (2)
Texas (Scott & White Memorial Hospital) - Myoepithelial carcinoma
West Virginia (Greenbrier Valley Medical Center) - Mucoepidermoid carcinoma, metastatic
West Virginia (Wetzel County Hospital) - Polymorphic, low grade adenocarcinoma
Wisconsin (Bellin Health) - Poorly differentiated carcinoma favor nasopharyngeal carcinoma
Wisconsin (Meriter Hospital) - Squamous cell carcinoma
Wisconsin (Pathology Associates) - Lymphoepithelial carcinoma (1); Peripheral ameloblastoma (1)
Australia (Royal Prince Alfred Hospital) - Poorly differentiated carcinoma, NOS (4); Mucoepidermoid carcinoma (1)
Australia (Sullivan Nicolaides Pathology) - Poorly differentiated squamous cell carcinoma
Brazil (Minas Gerais School of Medicine) - High grade invasive carcinoma
Germany (UKE, Kerninstitut fur Pathologie) - Myoepithelial carcinoma
Jamaica (The University of the West Indies) - Lymphoepithelial carcinoma of oropharynx
Japan (Kyoto University Hospital) - Carcinoma
New Zealand (Otago Diagnostic Laboratories) - Carcinoma ex-pleomorphic adenoma

Oman (Sultanate of Oman) - Mucoepidermoid carcinoma
Qatar (Hamad Medical Corporation) - Mucoepidermoid carcinoma (5); Myoepithelial carcinoma (2)

Case 5 - Diagnosis:

Mucoepidermoid carcinoma, tonsil
T-61100, M-84303

Case 5 - References:

Saenz-Santamaria J, Catalina-Fernandez I, Fernandez-Mera JJ, et al. Low Grade Mucoepidermoid Carcinoma Arising in Cervical Lymph Nodes. A Report of Two Cases with Fine Needle Aspiration Findings. *Acta Cytol* 2003; 47(3):470-474.

Brandwein MS, Ivanov K, Wallace DI, et al. Mucoepidermoid Carcinoma. A Clinicopathologic Study of 80 Patients with Special Reference to Histological Grading. *Am J Surg Pathol* 2001; 25(7)835-845.

Boahene DK, Olsen KD, Lewis JE, et al. Mucoepidermoid Carcinoma of the Parotid Gland. The Mayo Clinic Experience. *Arch Otolaryngol Head Neck Surg* 2004; 130(7):849-856.

Sobral AP, Loducca SV Nunes FD, et al. Relationship Between Major and Minor Salivary Gland Mucoepidermoid Carcinoma Malignancy Grading and Presence of Stromal Myofibroblasts. Immunohistochemical Study. *J Oral Pathol Med* 2004; 33(6):335-339.

Pires FR, Shih IeM, da Cruz Perez DE, et al. Med-CAM (CD146) Expression in Parotid Mucoepidermoid Carcinoma. *Oral Oncol* 2003; 39(3):277-281.

Case No. 6, Accession No. 29915 January 2006

Arcadia (Garfield Medical Center) - Pleomorphic adenoma
Baldwin Park (Kaiser Permanente) - Pleomorphic adenoma (3)
Glendale - Myoepithelial-rich mixed tumor
Hayward/Fremont (St. Rose Hospital) - Mixed tumor
Long Beach Chapter (Lakewood Regional Medical Center) - Mixed tumor, pleomorphic adenoma (9)
Long Beach (Long Beach Memorial Medical Center) - Pleomorphic adenoma
Monterey Park (Monterey Peninsula Pathologists) - Pleomorphic adenoma
Mountain View (El Camino Pathology) - Basal cell adenoma
Orange (Orange County Medical Group) - Benign mixed tumor
Oxnard (St. John's Regional Medical Center) - Mixed tumor
San Diego (Naval Medical Center) - Benign mixed tumor (2)
San Francisco (San Francisco General Hospital) - Pleomorphic adenoma
Santa Rosa (Santa Rosa Memorial Hospital) - Pleomorphic adenoma (mixed tumor) (3)
Woodland Hills - Pleomorphic adenoma (1); Carcinoma ex-pleomorphic adenoma (1)
Arkansas (University of Arkansas Medical Center) - Basal cell adenoma, parotid gland
Colorado, Evergreen - Mixed tumor
Florida (Jackson Memorial Hospital) - Pleomorphic adenoma
Florida, Tallahassee - Pleomorphic adenoma
Florida (Winter Haven Hospital) - Mixed tumor, benign (3)
Illinois, Burr Ridge - Adenoid cystic carcinoma, tubular type
Illinois (Evanston Hospital) - Mixed tumor
Illinois (Fairview Ridges Hospital) - Myoepithelioma
Illinois (Loyola University Medical Center) - Cellular pleomorphic adenoma with dominant myoepithelial nodule
Illinois (Naval Hospital Great Lakes) - Ductal adenoma
Illinois, Oak Brook - Pleomorphic adenoma
Indiana (Kokamo Pathologist Health Systems) - Benign mixed tumor
Louisiana (Orleans Parish Coroners Office) - Pleomorphic adenoma
Maryland (National Naval Medical Center) - Pleomorphic adenoma
Maryland (Northwestern Hospital Center) - Benign mixed tumor
Maryland (University of Maryland) - Myoepithelioma
Massachusetts (New England Medical Center) - Myoepithelioma
Michigan, Kalamazoo - Pleomorphic adenoma
Michigan (Oakwood Hospital) - Pleomorphic adenoma
Michigan (Pathology Services West Michigan) - Pleomorphic adenoma
Nebraska (Creighton University School of Medicine) - Pleomorphic adenoma
New York (Long Island Jewish Medical Center) - Pleomorphic adenoma
New York (Nassau University Medical Center) - Pleomorphic adenoma

New York (New York Stony Brook University Residents) - Basaloid carcinoma
New York (SUNY Downstate Residents) - Pleomorphic adenoma, basal cell adenoma, basal cell adenocarcinoma
New York (Westchester Medical Center) - Mixed tumor
North Carolina (Mountain Area Pathology) - Pleomorphic adenoma (3)
Ohio (McCullough Hyde Memorial Hospital) - Mixed tumor
Oklahoma (Heartland Pathology Consultants) - Mixed tumor
Oklahoma, Oklahoma City - Mixed tumor
Pennsylvania (Allegheny General Hospital) - Benign mixed tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Basal cell adenoma
Pennsylvania (Drexel University College of Medicine) - Benign mixed tumor
Pennsylvania (Mt Nittany Medical Center) - Pleomorphic adenoma
Pennsylvania (Pennsylvania Hospital Residents) - Pleomorphic adenoma
Puerto Rico (University of Puerto Rico) - Pleomorphic adenoma (2)
Tennessee - Monomorphic adenoma
Texas, Crystal Beach - Pleomorphic adenoma
Texas, Lubbock - Monomorphic adenoma
Texas (Propath Associates) - Pleomorphic adenoma (2)
Texas (Scott & White Memorial Hospital) - Pleomorphic adenoma
West Virginia (Greenbrier Valley Medical Center) - Pleomorphic adenoma
West Virginia (Wetzel County Hospital) - Monomorphic adenoma
Wisconsin (Bellin Health) - Pleomorphic adenoma
Wisconsin (Meriter Hospital) - Pleomorphic adenoma
Wisconsin (Pathology Associates) - Adenocarcinoma, NOS (2)
Australia (Royal Prince Alfred Hospital) - Adenoid cystic carcinoma (2); Basal cell adenoma (3)
Australia (Sullivan Nicolaides Pathology) - Pleomorphic adenoma
Brazil (Minas Gerais School of Medicine) - Pleomorphic adenoma
Germany (UKE, Kerninstitut fur Pathologie) - Cellular pleomorphic adenoma
Jamaica (The University of the West Indies) - Acinic cell carcinoma
Japan (Kyoto University Hospital) - Pleomorphic adenoma
New Zealand (Otago Diagnostic Laboratories) - Pleomorphic adenoma
Oman (Sultanate of Oman) - Basal cell adenoma
Qatar (Hamad Medical Corporation) - Pleomorphic adenoma

Case 6 - Diagnosis:

Pleomorphic adenoma, parotid gland
T-55120, M-89400

Case 6 - References:

Seifert G and Donath K. Juvenile Pleomorphic Parotid Adenoma of Embryonal Structure. *Pathologe* 1998; 19(4):286-291.
Weber A, Langhanki L, Schutz A, et al. Expression Profiles of p53, p63, and p73 in Benign Salivary Gland Tumors. *Virchows Arch* 2002; 441(5):428-436.
Alos L, Cardesa A Bombi JA, et al. Myoepithelial Tumors of Salivary Glands. A Clinicopathologic, Immunohistochemical, Ultrastructural, and Flow-Cytometric Study. *Semin Diagn Pathol* 1996; 13(2):138-147.
de Araujo VC, Carvalho YR, de Araujo NS. Actin Versus Vimentin in Myoepithelial Cells of Salivary Gland Tumors. A Comparative Study. *Oral Surg Oral Med Oral Pathol* 1994; 77(4):387-391.

Case No. 7, Accession No. 30198 January 2006

Arcadia (Garfield Medical Center) - Adenoid cystic carcinoma
Baldwin Park (Kaiser Permanente) - Adenoid cystic carcinoma (1); Mucoepidermoid carcinoma (1); Carcinoma (? X pleo adenoma?) (1)
Glendale - Adenoid cystic carcinoma
Hayward/Fremont (St. Rose Hospital) - Carcinoma ex-mixed tumor
Long Beach Chapter (Lakewood Regional Medical Center) - Malignant mixed tumor (9)
Long Beach (Long Beach Memorial Medical Center) - Adenoid cystic carcinoma
Monterey Park (Monterey Peninsula Pathologists) - Small cell/neuroendocrine carcinoma
Mountain View (El Camino Pathology) - Adenoid cystic carcinoma , poorly differentiated
Orange (Orange County Medical Group) - Basal cell adenocarcinoma

Oxnard (St. John's Regional Medical Center) - Malignant mixed tumor
San Diego (Naval Medical Center) - Adenoid cystic carcinoma (2)
San Francisco (San Francisco General Hospital) - Adenoid cystic carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Adenoid cystic carcinoma (3)
Woodland Hills - Carcinoma ex-pleomorphic adenoma (1); Poorly differentiated adenocarcinoma, NOS
Arkansas (University of Arkansas Medical Center) - Carcinoma
Colorado, Evergreen - Carcinoma ex-pleomorphic adenoma
Florida (Jackson Memorial Hospital) - Carcinoma ex-pleomorphic adenoma
Florida, Tallahassee - Carcinoma ex-pleomorphic adenoma
Florida (Winter Haven Hospital) - Malignant mixed tumor
Illinois, Burr Ridge - Small cell carcinoma
Illinois (Evanston Hospital) - Adenoid cystic carcinoma
Illinois (Fairview Ridges Hospital) - Adenoid cystic carcinoma vs. carcinoma ex-pleomorphic carcinoma
Illinois (Loyola University Medical Center) - Adenoid cystic carcinoma, solid variant
Illinois (Naval Hospital Great Lakes) - Adenoid cystic carcinoma
Illinois, Oak Brook - Carcinoma ex-mixed tumor
Indiana (Kokamo Pathologist Health Systems) - Malignant mixed tumor
Louisiana (Orleans Parish Coroners Office) - Malignant mixed tumor
Maryland (National Naval Medical Center) - Basal cell carcinoma
Maryland (Northwestern Hospital Center) - Carcinoma ex-pleomorphic adenoma
Maryland (University of Maryland) - Poorly differentiated adenoid cystic carcinoma
Massachusetts (New England Medical Center) - Solid variant of adenoid cystic carcinoma/carcinoma ex-pleomorphic adenoma
Michigan, Kalamazoo - Malignant mixed tumor
Michigan (Oakwood Hospital) - Adenoid cystic carcinoma
Michigan (Pathology Services West Michigan) - Carcinoma ex-pleomorphic adenoma
Nebraska (Creighton University School of Medicine) - Malignant mixed tumor
New York (Long Island Jewish Medical Center) - Solid variant of acinic cell carcinoma
New York (Nassau University Medical Center) - Malignant mixed tumor
New York (New York Stony Brook University Residents) - Carcinoma ex-pleomorphic adenoma vs. adenocarcinoma, NOS
New York (SUNY Downstate Residents) - High grade adenocarcinoma, NOS (1); Small cell carcinoma (1); Pleomorphic adenoma (2); Carcinoma ex-pleomorphic adenoma (1); High grade carcinoma (1)
New York (Westchester Medical Center) - Carcinoma, ex-mixed tumor
North Carolina (Mountain Area Pathology) - Small cell carcinoma (1); Carcinoma ex-pleomorphic adenoma (1); Small cell carcinoma (1)
Ohio (McCullough Hyde Memorial Hospital) - Malignant mixed tumor
Oklahoma (Heartland Pathology Consultants) - Adenocarcinoma, NOS
Oklahoma, Oklahoma City - Carcinoma in mixed tumor
Pennsylvania (Allegheny General Hospital) - Basal cell adenocarcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Basaloid adenoid cystic carcinoma
Pennsylvania (Drexel University College of Medicine) - Adenoid cystic carcinoma, solid pattern
Pennsylvania (Mt Nittany Medical Center) - Small cell carcinoma
Pennsylvania (Pennsylvania Hospital Residents) - Carcinoma ex-pleomorphic adenoma
Puerto Rico (University of Puerto Rico) - Malignant mixed tumor (2)
Tennessee - Basal cell adenocarcinoma
Texas, Crystal Beach - Myoepithelial carcinoma
Texas, Lubbock - Adenocarcinoma
Texas (Propath Associates) - Malignant mixed tumor (2)
Texas (Scott & White Memorial Hospital) - Basal cell adenocarcinoma
West Virginia (Greenbrier Valley Medical Center) - Basal cell adenocarcinoma
West Virginia (Wetzel County Hospital) - Neuroendocrine carcinoma
Wisconsin (Bellin Health) - Adenoid cystic carcinoma
Wisconsin (Meriter Hospital) - High grade carcinoma
Wisconsin (Pathology Associates) - Malignant mixed tumor (1); Lymphoma (1)

Australia (Royal Prince Alfred Hospital) - Adenoid cystic carcinoma, solid variant
Australia (Sullivan Nicolaides Pathology) - Carcinoma ex-pleomorphic adenoma
Brazil (Minas Gerais School of Medicine) - Adenoid cystic carcinoma, high-grade, solid type
Germany (UKE, Kerninstitut fur Pathologie) - Adenoid cystic carcinoma
Jamaica (The University of the West Indies) - Adenoid cystic carcinoma (basal cell)
Japan (Kyoto University Hospital) - Polymorphous low-grade adenocarcinoma
New Zealand (Otago Diagnostic Laboratories) - Basal cell adenocarcinoma
Oman (Sultanate of Oman) - Basal cell adenocarcinoma
Qatar (Hamad Medical Corporation) - Adenoid cystic carcinoma (6); Polymorphous low grade adenocarcinoma (2)

Case 7 - Diagnosis:

Malignant mixed tumor, parotid gland
T-55110, M-89403

Case 7 - References:

Gandour-Edwards RF, Donald PJ, Vogt PJ, et al. Carcinosarcoma (Malignant Mixed Tumor) of the Parotid. Report of a Case with a Pure Rhabdomyosarcoma Component. *Nead Neck* 1994; 16(4):379-382.
Manuel S, Mathews A, Chandramohan K, et al. Carcinosarcoma of the Parotid Gland with Epithelial-Myoepithelial Carcinoma and Pleomorphic Sarcoma Components. *Br J Oral Maxillofac Surg* 2002; 40(6):480-483.
Rumnong V, Banerjee AK, Joshi K, et al. Carcinosarcoma of Parotid Gland Having Osteosarcoma as Sarcomatous Component. A Case Report. *Indian J Pathol Microbiol* 1993; 36(4):492-494.
Alvarez-Canas C and Rodilla IG. True Malignant Mixed Tumor (Carcinosarcoma) of the Parotid Gland. Report of a Case with Immunohistochemical Study. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod* 1996; 81(4):454-458.
de la Torre M and Larsson E. Fine-Needle Aspiration Cytology of Carcinosarcoma of the Parotid Gland. Cytohistological and Immunohistochemical Findings. *Diagn Cytopathol* 1995; 12(4):350-353.

Case No. 8, Accession No. 29561 January 2006

Arcadia (Garfield Medical Center) - High grade oncocytic carcinoma
Baldwin Park (Kaiser Permanente) - Ductal adenocarcinoma (1); Large cell ductal carcinoma (2)
Glendale - Oncocytic carcinoma
Hayward/Fremont (St. Rose Hospital) - Oncocytic carcinoma
Long Beach Chapter (Lakewood Regional Medical Center) - Metastatic breast carcinoma (9)
Long Beach (Long Beach Memorial Medical Center) - Salivary duct carcinoma
Monterey Park (Monterey Peninsula Pathologists) - Salivary duct carcinoma
Mountain View (El Camino Pathology) - Salivary duct carcinoma
Orange (Orange County Medical Group) - Carcinoma, salivary duct type
Oxnard (St. John's Regional Medical Center) - Oncocytic carcinoma
San Diego (Naval Medical Center) - Salivary duct carcinoma (2)
San Francisco (San Francisco General Hospital) - Salivary duct carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Salivary duct carcinoma (3)
Woodland Hills - Oncocytic carcinoma (1); Salivary duct carcinoma (1)
Arkansas (University of Arkansas Medical Center) - Adenocarcinoma, NOS, parotid gland
Colorado, Evergreen - Salivary duct carcinoma
Florida (Jackson Memorial Hospital) - Salivary duct carcinoma
Florida, Tallahassee - Acinic cell tumor
Florida (Winter Haven Hospital) - Adenocarcinoma (3)
Illinois, Burr Ridge - Salivary duct carcinoma
Illinois (Evanston Hospital) - Salivary duct carcinoma, high grade
Illinois (Fairview Ridges Hospital) - Salivary duct carcinoma
Illinois (Loyola University Medical Center) - Salivary duct carcinoma
Illinois (Naval Hospital Great Lakes) - Salivary duct carcinoma
Illinois, Oak Brook - Mucoepidermoid carcinoma, intermediate grade
Indiana (Kokamo Pathologist Health Systems) - Salivary duct carcinoma

Louisiana (Orleans Parish Coroners Office) - Metastatic carcinoma
Maryland (National Naval Medical Center) - Salivary duct carcinoma
Maryland (Northwestern Hospital Center) - Oncocytic carcinoma
Maryland (University of Maryland) - Apocrine carcinoma
Massachusetts (New England Medical Center) - Salivary duct carcinoma
Michigan, Kalamazoo - Salivary duct carcinoma
Michigan (Oakwood Hospital) - Salivary duct carcinoma
Michigan (Pathology Services West Michigan) - Oncocytic carcinoma
Nebraska (Creighton University School of Medicine) - Salivary duct carcinoma
New York (Long Island Jewish Medical Center) - Salivary duct carcinoma
New York (Nassau University Medical Center) - Metastatic ductal carcinoma of breast
New York (New York Stony Brook University Residents) - Salivary ductal carcinoma
New York (SUNY Downstate Residents) - Salivary duct carcinoma
New York (Westchester Medical Center) - Adenosquamous carcinoma
North Carolina (Mountain Area Pathology) - Salivary duct carcinoma (3)
Ohio (McCullough Hyde Memorial Hospital) - Oncocytic carcinoma
Oklahoma (Heartland Pathology Consultants) - Salivary duct carcinoma
Oklahoma, Oklahoma City - Salivary duct carcinoma
Pennsylvania (Allegheny General Hospital) - Salivary duct carcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Acinic cell carcinoma
Pennsylvania (Drexel University College of Medicine) - Salivary duct carcinoma
Pennsylvania (Mt Nittany Medical Center) - Salivary duct carcinoma
Pennsylvania (Pennsylvania Hospital Residents) - Salivary duct carcinoma
Puerto Rico (University of Puerto Rico) - Salivary duct carcinoma (2)
Tennessee - Mucoepidermoid carcinoma
Texas, Crystal Beach - Mucoepidermoid carcinoma (mostly intermediate type)
Texas, Lubbock - Poorly differentiated carcinoma
Texas (Propath Associates) - Metastatic carcinoma (2)
Texas (Scott & White Memorial Hospital) - Salivary duct carcinoma
West Virginia (Greenbrier Valley Medical Center) - Adenocarcinoma, NOS
West Virginia (Wetzel County Hospital) - Salivary duct carcinoma
Wisconsin (Bellin Health) - Oncocytic carcinoma
Wisconsin (Meriter Hospital) - High grade mucoepidermoid carcinoma
Wisconsin (Pathology Associates) - Salivary duct carcinoma (2)
Australia (Royal Prince Alfred Hospital) - High grade adenocarcinoma
Australia (Sullivan Nicolaides Pathology) - Salivary duct carcinoma
Brazil (Minas Gerais School of Medicine) - Salivary duct carcinoma
Germany (UKE, Kerninstitut fur Pathologie) - Salivary duct carcinoma
Jamaica (The University of the West Indies) - Acinic cell carcinoma
Japan (Kyoto University Hospital) - Salivary duct carcinoma
New Zealand (Otago Diagnostic Laboratories) - Oncocytic carcinoma
Oman (Sultanate of Oman) - Salivary duct carcinoma
Qatar (Hamad Medical Corporation) - Salivary duct carcinoma

Case 8 - Diagnosis:

Salivary duct carcinoma, parotid gland
T-89400, M-80103

Case 8 – References:

Hosal AS, Fan C, Barnes L, et al. Salivary Duct Carcinoma. *Otolaryngol Head Neck Surg* 2003; 129(6):720-725.
Simpson RH, Prasad AR, Lewis JE, et al. Mucin-Rich Variant of Salivary Duct Carcinoma. A Clinicopathologic and Immunohistochemical Study of Four Cases. *Am J Surg Pathol* 2003; 27(8):1070-1079.
Ulusarac O and Carter E. Pathologic Quiz Case. A Woman with a Right Parotid Mass. Salivary Duct Carcinoma. *Arch Pathol Lab Med* 2003; 127(8):353-354.

Dagrada GP, Negri T, Tamborini E, et al. Expression of HER-2/Neu Gene and Protein in Salivary Duct Carcinomas of Parotid Gland as Revealed by Fluorescence In-Situ Hybridization and Immunohistochemistry. *Histopathol* 2004; 44(3):301-302.
Mukunyadzi P, Ai L, Portilla D, et al. Expression of Perixisome Proliferator-Activated Receptor Gramma in Salivary Duct Carcinoma. Immunohistochemical Analysis of 15 Cases. *Mod Pathol* 2003; 16(12):1218-1223.

Case No. 9, Accession No. 30275 January 2006

Arcadia (Garfield Medical Center) - Papillary thyroid carcinoma, metastatic
Baldwin Park (Kaiser Permanente) - Metastatic papillary carcinoma of thyroid (2); Papillary carcinoma (favor thyroid) (1)
Glendale - Metastatic papillary carcinoma of thyroid
Hayward/Fremont (St. Rose Hospital) - Metastatic papillary carcinoma from thyroid
Long Beach Chapter (Lakewood Regional Medical Center) - Metastatic papillary carcinoma of thyroid (9)
Long Beach (Long Beach Memorial Medical Center) - Metastatic papillary carcinoma
Monterey Park (Monterey Peninsula Pathologists) - Metastatic papillary tumor carcinoma
Mountain View (El Camino Pathology) - Sebaceous lymphadenoma
Orange (Orange County Medical Group) - Metastatic papillary thyroid carcinoma
Oxnard (St. John's Regional Medical Center) - Papillary carcinoma, thyroid
San Diego (Naval Medical Center) - Metastatic papillary intracystic acinic cell carcinoma (2)
San Francisco (San Francisco General Hospital) - Metastatic papillary thyroid carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Metastatic papillary carcinoma of thyroid (3)
Woodland Hills - Papillary carcinoma (1); Papillary thyroid carcinoma, metastatic (1)
Arkansas (University of Arkansas Medical Center) - Metastatic papillary carcinoma of thyroid origin, lymph node
Colorado, Evergreen - Metastatic papillary carcinoma of the thyroid
Florida (Jackson Memorial Hospital) - Papillary thyroid carcinoma
Florida, Tallahassee - Papillary carcinoma, thyroid
Florida (Winter Haven Hospital) - Metastatic papillary thyroid carcinoma (2); Papillary carcinoma, thyroid (1)
Illinois, Burr Ridge - Papillary carcinoma
Illinois (Evanston Hospital) - Papillary thyroid carcinoma
Illinois (Fairview Ridges Hospital) - Metastatic papillary carcinoma of thyroid
Illinois (Loyola University Medical Center) - Metastatic papillary thyroid carcinoma
Illinois (Naval Hospital Great Lakes) - Metastatic papillary thyroid carcinoma
Illinois, Oak Brook - Metastatic papillary carcinoma, follicular type
Indiana (Kokamo Pathologist Health Systems) - Metastatic papillary carcinoma
Louisiana (Orleans Parish Coroners Office) - Metastatic thyroid carcinoma
Maryland (National Naval Medical Center) - Metastatic papillary carcinoma
Maryland (Northwestern Hospital Center) - Cystadenocarcinoma
Maryland (University of Maryland) - Metastatic papillary thyroid carcinoma
Massachusetts (New England Medical Center) - Metastatic papillary carcinoma, most likely thyroid origin
Michigan, Kalamazoo - Metastatic papillary thyroid carcinoma
Michigan (Oakwood Hospital) - Papillary thyroid carcinoma
Michigan (Pathology Services West Michigan) - Papillary carcinoma metastatic to lymph node
Nebraska (Creighton University School of Medicine) - Metastatic papillary carcinoma of thyroid
New York (Long Island Jewish Medical Center) - Metastatic papillary thyroid carcinoma
New York (Nassau University Medical Center) - Papillary carcinoma of thyroid
New York (New York Stony Brook University Residents) - Metastatic papillary carcinoma, tall cell variant
New York (SUNY Downstate Residents) - Metastatic carcinoma of thyroid, tall cell variant/papillary variant of acinic cell carcinoma
New York (Westchester Medical Center) - Papillary thyroid carcinoma
North Carolina (Mountain Area Pathology) - Metastatic papillary thyroid carcinoma (3)
Ohio (McCullough Hyde Memorial Hospital) - Tall cell variant papillary carcinoma, thyroid
Oklahoma (Heartland Pathology Consultants) - Canalicular adenoma
Oklahoma, Oklahoma City - Sebaceous lymphadenoma

Pennsylvania (Allegheny General Hospital) - Metastatic papillary carcinoma of thyroid, tall cell variant
Pennsylvania (Conemaugh Memorial Medical Center) - Papillary adenocarcinoma
Pennsylvania (Drexel University College of Medicine) - Metastatic adenocarcinoma, probably thyroid primary
Pennsylvania (Mt Nittany Medical Center) - Oncocytic cystadenoma
Pennsylvania (Pennsylvania Hospital Residents) - Metastatic papillary carcinoma
Puerto Rico (University of Puerto Rico) - Metastatic papillary carcinoma (2)
Tennessee - Papillary follicular neoplasm
Texas, Crystal Beach - Papillary carcinoma, metastatic (thyroid possible)
Texas, Lubbock - Metastatic papillary carcinoma, tall columnar variant
Texas (Propath Associates) - Metastatic papillary thyroid, adenocarcinoma
Texas (Scott & White Memorial Hospital) - Metastatic papillary thyroid carcinoma
West Virginia (Greenbrier Valley Medical Center) - Thyroid metastatic papillary carcinoma
West Virginia (Wetzel County Hospital) - Metastatic papillary carcinoma of thyroid in lymph node
Wisconsin (Bellin Health) - Metastatic papillary carcinoma of the thyroid gland
Wisconsin (Meriter Hospital) - Metastatic papillary carcinoma of thyroid
Wisconsin (Pathology Associates) - Metastatic papillary thyroid carcinoma (2)
Australia (Royal Prince Alfred Hospital) - Metastatic papillary carcinoma, thyroid primary
Australia (Sullivan Nicolaides Pathology) - Metastatic papillary carcinoma of thyroid
Brazil (Minas Gerais School of Medicine) - Metastatic papillary carcinoma from thyroid
Germany (UKE, Kerninstitut fur Pathologie) - Metastasis from papillary carcinoma (thyroid glands)
Japan (Kyoto University Hospital) - Papillary carcinoma, probably metastatic from thyroid
New Zealand (Otago Diagnostic Laboratories) - Metastatic papillary carcinoma, ? thyroid primary
Oman (Sultanate of Oman) - Metastatic papillary carcinoma of thyroid
Qatar (Hamad Medical Corporation) - Metastatic papillary thyroid carcinoma

Case 9 - Diagnosis:

Metastatic papillary thyroid carcinoma, neck lymph node
T-Y0600, M-80103

Case 9 – References:

Nagao T, Gaffey TA, Visscher DW, et al. Invasive Micropapillary Salivary Duct Carcinoma. A Distinct Histologic Variant with Biologic Significance. *Am J Surg Pathol* 2004; 28(3):319-326.
Ito Y, Tomoda C, Uruno T, et al. Preoperative Ultrasonographic Examination for Lymph Node Metastasis. Usefulness When Designing Lymph Node Dissection for Papillary Microcarcinoma of the Thyroid. *World J Surg* 2004; 28(5):498-501.
Kupferman ME, Patterson M, Mandel SJ, et al. Patterns of Lateral Neck Metastasis in Papillary Thyroid Carcinoma. *Arch Otolaryngol Head Neck Surg* 2004; 130(7):857-860.
Fukui Y, Yamakawa T, Taniki T, et al. Sentinel Lymph Node Biopsy in Patients with Papillary Thyroid Carcinoma. *Cancer* 2001; 92(11):2868-2874.
Verge J Guixa J, Alejo M, et al. Cervical Cystic Lymph Node Metastasis as First Manifestation of Occult Papillary Thyroid Carcinoma. Report of Seven Cases. *Head Neck* 1999; 21(4):370-374.

Case No. 10, Accession No. 29951 January 2006

Arcadia (Garfield Medical Center) - Benign lymphoepithelial lesion
Baldwin Park (Kaiser Permanente) - Sebaceous lymphadenoma (3)
Glendale - Oncocytoma and sebaceous lymphadenoma
Hayward/Fremont (St. Rose Hospital) - Lymphadenoma
Long Beach Chapter (Lakewood Regional Medical Center) - Sebaceous lymph adenoma (9)
Long Beach (Long Beach Memorial Medical Center) - Sebaceous lymphadenoma
Monterey Park (Monterey Peninsula Pathologists) - Sebaceous lymphadenoma
Mountain View (El Camino Pathology) - Metastatic papillary carcinoma, tall cell variant
Orange (Orange County Medical Group) - Sebaceous lymphadenoma
Oxnard (St. John's Regional Medical Center) - Sebaceous lymphadenoma

San Diego (Naval Medical Center) - Sebaceous lymphadenoma (2)
San Francisco (San Francisco General Hospital) - Sebaceous lymphadenoma
Santa Rosa (Santa Rosa Memorial Hospital) - Sebaceous lymphadenoma (3)
Woodland Hills - Sebaceous lymphadenoma (2)
Arkansas (University of Arkansas Medical Center) - Sebaceous lymphadenoma, parotid gland
Colorado, Evergreen - Sebaceous lymphadenoma
Florida (Jackson Memorial Hospital) - Sebaceous lymphadenoma
Florida, Tallahassee - Sebaceous lymphadenoma
Florida (Winter Haven Hospital) - Sebaceous lymphadenoma (3)
Illinois, Burr Ridge - Lymphoepithelial-like carcinoma
Illinois (Evanston Hospital) - Sebaceous lymphadenoma
Illinois (Fairview Ridges Hospital) - Sebaceous lymphadenoma
Illinois (Loyola University Medical Center) - Sebaceous lymphadenoma
Illinois (Naval Hospital Great Lakes) - Sebaceous lymphadenoma and oncocytosis
Illinois, Oak Brook - Sebaceous lymphadenoma
Indiana (Kokamo Pathologist Health Systems) - Metastatic mucoepidermoid carcinoma
Louisiana (Orleans Parish Coroners Office) - Sebaceous lymphadenoma
Maryland (National Naval Medical Center) - Sebaceous lymphadenoma
Maryland (Northwestern Hospital Center) - Sebaceous lymphadenoma
Maryland (University of Maryland) - Sebaceous lymphadenoma and benign glandular inclusion
Massachusetts (New England Medical Center) - Sebaceous lymphadenoma
Michigan, Kalamazoo - Lymphadenoma
Michigan (Oakwood Hospital) - Sebaceous lymphadenoma
Michigan (Pathology Services West Michigan) - Lymphoepithelioma
Nebraska (Creighton University School of Medicine) - Sebaceous lymphadenoma
New York (Long Island Jewish Medical Center) - Sebaceous lymphadenoma with oncocytoma
New York (Nassau University Medical Center) - Sebaceous lymphadenoma
New York (New York Stony Brook University Residents) - Sebaceous lymphadenoma
New York (SUNY Downstate Residents) - Sebaceous lymphadenoma, lymphadenoma, NOS
New York (Westchester Medical Center) - Sebaceous lymphadenoma and oncocytoma
North Carolina (Mountain Area Pathology) - Sebaceous lymphadenoma
Ohio (McCullough Hyde Memorial Hospital) - MALT lymphoma
Oklahoma (Heartland Pathology Consultants) - Sebaceous lymphadenoma
Oklahoma, Oklahoma City - Papillary adenocarcinoma
Pennsylvania (Allegheny General Hospital) - Sebaceous lymphadenoma
Pennsylvania (Conemaugh Memorial Medical Center) - Sebaceous lymphadenoma
Pennsylvania (Drexel University College of Medicine) - Sebaceous lymphadenoma
Pennsylvania (Mt Nittany Medical Center) - Sebaceous lymphadenoma
Pennsylvania (Pennsylvania Hospital Residents) - Sebaceous lymphadenoma
Puerto Rico (University of Puerto Rico) - Sebaceous lymphadenoma (2)
Tennessee - Benign lymphoepithelial lesion
Texas, Crystal Beach - Benign lymphoepithelial lesion (vs. sialometaplasia) consistent with oncocytic nodular hyperplasia (vs. oncocytic adenoma)
Texas, Lubbock - Sebaceous lymphadenocarcinoma
Texas (Propath Associates) - Benign lymphoepithelial lesion (2)
Texas (Scott & White Memorial Hospital) - Sebaceous lymphadenoma
West Virginia (Greenbrier Valley Medical Center) - Lymphoepithelial lesion
West Virginia (Wetzel County Hospital) - Oncocytoma and sebaceous lymph adenoma
Wisconsin (Bellin Health) - Sebaceous lymphadenoma
Wisconsin (Meriter Hospital) - Oncocytoma
Wisconsin (Pathology Associates) - Sebaceous lymphadenoma with a smaller oncocytoma (1); Sebaceous lymphadenoma (1)
Australia (Royal Prince Alfred Hospital) - Sebaceous lymphadenoma
Australia (Sullivan Nicolaides Pathology) - Sebaceous lymphadenoma

Brazil (Minas Gerais School of Medicine) - Sebaceous lymphadenoma

Germany (UKE, Kerninstitut fur Pathologie) - Sebaceous lymphadenoma with oncocytoma

Japan (Kyoto University Hospital) - Sebaceous lymphoma

New Zealand (Otago Diagnostic Laboratories) - Lymphadenoma with sebaceous differentiation

Oman (Sultanate of Oman) - Sebaceous lymphadenoma

Qatar (Hamad Medical Corporation) - Sebaceous lymphangioma with oncocytic metaplasia

Case 10 - Diagnosis:

Sebaceous lymphadenoma, parotid gland
T-80103, M-84100

Case 10 - References:

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Gnepp DR and Brannon R. Sebaceous Neoplasms of Salivary Gland Origin. Report of 21 Cases. *Cancer* 1984; 53(10):2155-2170.

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