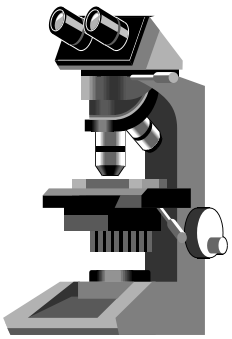
CALIFORNIA
TUMOR TISSUE REGISTRY



HEAD AND NECK PATHOLOGY

Minutes – Subscription B

September 1999

SUGGESTED READING (General Topics from Recent Literature):

Apoptosis. Israels, LG and Israels, ED. *The Oncologist* 1999; 4:332-339.

Management of the Neck in Parotid Cancer. *Am J Surg* 1999; 177(3):278.

Epithelioid Hemangioendothelioma of the Liver. A Clinicopathologic Study of 137 Cases. Makhlouf HR, Ishak KG, et al. *Cancer 1999*; 85(Feb 1):562-582.

Gastric Histologic Findings in Patients with Nonsteroidal Anti-Inflammatory Drug-Associated Gastric Ulcer. Haber MM, Loper I, et al. *Mod Pathol* 1999; 12(June):592-598.

The Influence of Margin Width on Local Control of Ductal Carcinoma In-Situ of the Breast. Silverstein MJ, Lagios MD, et al. *N Eng J Med* 1999; 340(May 13):1455-1461.

California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
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Loma Linda, California 92350
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Orange (UCI Medical Center Residents) - Basal cell adenoma, tubular type
Glendale - Monomorphic adenoma
San Diego (Naval Medical Center) - Mixed tumor
Nevada (Henderson) - Adenocarcinoma, polymorphous low-grade of parotid with neuroendocrine features
Utah (University of Utah School of Medicine) - Pleomorphic adenoma
Texas (Houston) - Basal cell adenoma
Texas (Ft. Worth) - Pleomorphic adenoma (2)
Texas (Fair Oaks Ranch) - Monomorphic adenoma
Texas (Lubbock) - Mixed tumor
Louisiana (River Ridge) - Epithelial-myoepithelial cell carcinoma
Mississippi (Brookhaven) - Adenoid cystic carcinoma
Florida (Miami) - Myoepithelioma
Florida (Winter Haven) - Pleomorphic adenoma
Florida (Munroe Regional Medical Center) - Pleomorphic adenoma
Illinois (Park Ridge) - Pleomorphic adenoma
Indiana (Fort Wayne) - Pleomorphic adenoma, right parotid
Kentucky (University of Louisville Pathology Residents) - Monomorphic adenoma
Kentucky (Lexington) - Basal adenoma
Wisconsin (Muskego) - Mixed tumor
Wisconsin (St. Mary's Hospital Medical Center) - Pleomorphic adenoma
Michigan (Ann Arbor) - Papillary cystadenoma
Michigan (St. Mary's Hospital) - Mixed tumor (2)
Ohio (Steuvinville) - Adenoid cystic carcinoma
Maryland (National Naval Medical Center) - Monomorphic adenoma
Pennsylvania (Pittsburgh) - Myoepithelioma
Pennsylvania (Conemaugh Memorial Hospital) - Benign mixed tumor
New York (NY) - Adenocystic carcinoma
New York (Impath) - Basal cell adenoma, parotid gland
New York (East Meadow) - Epithelial myoepithelial carcinoma
Massachusetts (Longmeadow) - Pleomorphic adenoma, parotid gland
England (The Medico-Legal Centre) - Pleomorphic adenoma
Japan (Shizuoka) - Mucoepidermoid carcinoma
Japan (Kyoto University) - Adenoid cystic carcinoma (3)
Japan (Kurashiki Medical School) - Salivary duct carcinoma
Japan (Hamamatsu Univerisity School of Medicine) - Myoepithelioma

Diagnosis:

Cellular Pleomorphic Adenoma, Parotid*
T55100,M89400

*Case Refereed by Mia Perez, M.D., ENT Pathology Consultant to the CTTR

References:

Seifert G, el al. WHO International Histological Classification of Salivary Gland Tumours. *Pathol Res Pract* 1990; 186(5):555-581.
Seifert G, el al. The World Health Organization's Histological Classification of Salivary Gland Tumors. A Commentary on the Second Edition. *Cancer* 1992; 70(2):379-385.
Bullerdict J, Wobst G, Meyer-Bolte K, et al. Cytogenetic Subtyping of 220 Salivary Gland Pleomorphic Adenomas. Correlation to Occurrence, Histological Subtype, and In Vitro Cellular Behavior. *Cancer Genet Cytogenet* 1993; 65(1):27-31.
Deguchi H, et al. Cmyc, ras p21 and p53 Expression in Pleomorphic adenoma and Its Malignant Form of the Human Salivary glands. *Acta Pathol Jpn* 1993; 43(7):413-422.
Noguchi S, et al. Demonstration of Monoclonal Origin of Human Parotid Gland Pleomorphic Adenoma. *Cancer* 1996; 77(3):431-435

Orange (UCI Medical Center Residents) - Malignant lymphoma, B-cell type
Glendale - Lymphoepithelial lesion
San Diego (Naval Medical Center) - Lymphoepithelial lesion, suspicious for low grade lymphoma (5); Benign lymphoepithelial lesion (2); Chronic sialadenitis with fungal organisms (1); Chronic sialadenitis (1)
Nevada (Henderson) - B-cell lymphoma arising from Warthin's tumor
Utah (University of Utah School of Medicine) - Benign lymphoepithelial lesion cannot completely exclude B-cell lymphoma
Texas (Houston) - Lymphoepithelial lesion. B-cell lymphocyte of MALT origin
Texas (Ft. Worth) - B-cell lymphoma (1); Immunoblastic lymphoma (1)
Texas (Fair Oaks) - Atypical lymphoid infiltrate suggestive of MALToma
Texas (Lubbock) - Anaplastic B-cell lymphoma
Louisiana (River Ridge) - Lymphoepithelial carcinoma
Mississippi (Brookhaven) - Lymphoepithelial lesion
Florida (Miami) - Warthin's
Florida (Winter Haven) - Benign lymphoepithelial lesion. Sialolithiasis
Florida (Munroe Regional Medical Center) - Acquired lymphoma, MALT type
Illinois (Park Ridge) - Sialolithiasis
Indiana (Fort Wayne) - MALT lymphoma (B-cell type), parotid
Kentucky (University of Louisville Pathology Residents) - Lymphoepithelial lesion with florid follicular hyperplasia
Kentucky (Lexington) - Atypical lymphoid hyperplasia
Wisconsin (Muskego) - Favor low grade MALT lymphoma, need clonality studies
Wisconsin (St. Mary's Hospital Medical Center) - Lymphoepithelial lesion, rule out low grade B-cell lymphoma of MALT
Michigan (Ann Arbor) - Extranodal marginal zone lymphoma (MALT)
Michigan (St. Mary's Hospital) - Benign lymphoepithelial lesion (2)
Ohio (Steuvinville) - Mikulicz's disease (benign lymphoepithelial lesion)
Maryland (National Naval Medical Center) - Benign lymphoepithelial lesion (6); Low grade B-cell lymphoma (6)
Pennsylvania (Pittsburgh) - Lymphoepithelial cyst
Pennsylvania (Conemaugh Memorial Hospital) - MALT lymphoma
New York (NY) - Low grade B-cell lymphoma of MALT
New York (Impath) - Benign lymphoepithelial lesion
New York (East Meadow) - Benign lymphoepithelial lesion
Massachusetts (Longmeadow) - Benign lymphoepithelial lesion, parotid gland
England (The Medico-Legal Centre) - Sialolithiasis with sialometaplasia
Japan (Shizuoka) - Malignant lymphoma, low-grade
Japan (Kyoto University) - Lymphoepithelial cyst (1); Chronic sialadenitis (1)
JAPAN (Kurashiki Medical School) - Mixed tumor
JAPAN (Hamamatsu University School of Medicine) - MALT lymphoma, low grade malignancy

Diagnosis:

Low Grade B-Cell Lymphoma of Mucosal-Associated Lymphoid Tissue (MALT)-Type/
Extranodal Marginal Zone Lymphoma, Parotid*
T55100,M95903

*Case Refereed by Mia Perez, M.D., ENT Pathology Consultant to the CTTR

References:
Takahashi H, et al. Primary Malignant Lymphoma of the Salivary Gland. A Tumor of Mucosa-Associated Lymphoid Tissue. *J Oral Pathol Med* 1992; 21(7):318-325.
Schmid U, Helbron D and Lennert K. Primary Malignant Lymphomas Localized in Salivary Glands. *Histopathol* 1982; 6(6):673-687.

Orange (UCI Medical Center Residents) - Granular cell tumor
Glendale - Granular cell tumor
San Diego (Naval Medical Center) - Granular cell tumor
Nevada (Henderson) - Granular cell tumor
Utah (University of Utah School of Medicine) - Granular cell tumor
Texas (Houston) - Granular cell tumor
Texas (Ft. Worth) - Granular cell tumor (2)
Texas (Fair Oaks) - Granular cell tumor
Texas (Lubbock) - Granular cell tumor
Louisiana (River Ridge) - Granular cell carcinoma
Mississippi (Brookhaven) - Oncocytoma
Florida (Miami) - Oncocytoma
Florida (Winter Haven) - Granular cell tumor
Florida (Munroe Regional Medical Center) - Granular cell tumor
Illinois (Park Ridge) - Oncocytoma
Indiana (Fort Wayne) - Granular cell tumor, parotid
Kentucky (University of Louisville Pathology Residents) - Granular cell tumor
Kentucky (Lexington) - Granular cell tumor
Wisconsin (Muskego) - Granular cell tumor
Wisconsin (St. Mary's Hospital Medical Center) - Granular cell tumor
Michigan (Ann Arbor) - Granular cell tumor
Michigan (St. Mary's Hospital) - Granular cell tumor (2)
Ohio (Steuvinville) - Granular cell tumor
Maryland (National Naval Medical Center) - Sinus histiocytosis with massive lymphadenopathy
Pennsylvania (Pittsburgh) - Granular cell tumor
Pennsylvania (Conemaugh Memorial Hospital) - Granular cell tumor
New York (NY) - Granular cell tumor
New York (Impath) - Granular cell tumor
New York (East Meadow) - Granular cell tumor, uncertain malignant potential
Massachusetts (Longmeadow) - Granular cell tumor, parotid gland
England (The Medico-Legal Centre) - Granular cell tumor
Japan (Shizuoka) - Granular cell tumor
Japan (Kyoto University) - Granular cell tumor (3)
Japan (Kurashiki Medical School) - Reactive lymphoid hyperplasia
Japan (Hamamatsu University School of Medicine) - Granular cell tumor

Diagnosis:

Granular Cell Tumor, Parotid*
T55100,M95800

*Case Refereed by Mia Perez, M.D., ENT Pathology Consultant to CTTR

References:

Lack EE, Worsham GF, et al. Granular Cell Tumour. A Clinicopathologic Study of 110 Patients. *J Surg Oncol* 1980; 13:301-316.
Morrison JG, Gray GF, et al. Granular Cell Tumors. *Am Surg* 1987; 53:156-160.Mazur MT, Shultz JJ, et al. Granular Cell Tumor. Immunohistochemical Analysis of 21 Benign Tumors and One Malignant Tumor. *Arch Pathol Lab Med* 1990; 692-696.
Said-Al-Naief N, et al. Granular Cell Tumor of the Parotid. *Ann Diagn Pathol* 1999; 3(1):35-38.

Orange (UCI Medical Center Residents) - Olfactory neuroblasoma
Glendale - Adenoid cystic carcinoma
San Diego (Naval Medical Center) - Olfactory neuroblastoma
Nevada (Henderson) - Adenocystic carcinoma
Utah (University of Utah School of Medicine) - Poorly differentiated non-keratinizing squamous carcinoma
Texas (Houston) - Basaloid cell adenocarcinoma
Texas (Ft. Worth) - Small cell neuroendocrine carcinoma (1); Merkel cell carcinoma
Texas (Fair Oaks Ranch) - Esthesioneuroblastoma
Texas (Lubbock) - Basal cell adenoma
Louisianna (River Ridge) - Poorly differentiated adenocarcinoma
Mississippi (Brookhaven) - Non-keratinizing squamous cell carcinoma
Florida (Miami) - Adenoid cystic carcinoma
Florida (Winter Haven) - Basaloid squamous cell carcinoma
Florida(Munroe Regional Medical Center) - Olfactory neuroblastoma
Illinois (Park Ridge) - Olfactory neuroblastoma
Indiana (Fort Wayne) - Pleomorphic adenoma, NOS
Kentucky (University of Louisville Pathology Residents) - Epithelial myoepithelial carcinoma
Kentucky (Lexington) - Inverted papilloma
Wisconsin (Muskego) - Olfactory neuroblastoma (would want to see peripheral pattern of S-100 staining)
Wisconsin (St. Mary's Hospital Medical Center) - Adenocarcinoma
Michigan (Ann Arbor) - Adenoid cystic carcinoma with solid pattern
Michigan (St. Mary's Hospital) - Inverted papilloma (2)
Ohio (Steuvinville) - Olfactory neuroblastoma
Maryland (National Naval Medical Center) - Basal cell adenocarcinoma
Pennsylvania (Pittsburgh) - Adenoid cystic carcinoma
Pennsylvania (Conemaugh Memorial Hospital) - Basal cell adenocarcinoma. Undifferentiated squamous cell carcinoma. Small cell carcinoma
New York (NY) - Basal cell adenocarcinoma
New York (Impath) - Cylindrical (transitional cell) carcinoma
New York (East Meadow) - Basal cell adenocarcinoma
Massachusetts (Longmeadow) - Adenoid cystic carcinoma, nose
England (The Medico-Legal Centre) - Olfactory neuroblastoma
Japan(Shizuoka) - Transitional cell carcinoma
Japan (Kyoto University) - Basal cell adenocarcinoma (2); Adenocarcinoma (1)
Japan (Kurashiki Medical School) - Granular cell tumor
Japan (Hamamatsu University School of Medicine) - Basal cell adenocarcinoma

Diagnosis:

Adenoid Cystic Carcinoma, Solid Pattern/High-Grade, Nose*
T21000,M82003

*Case Refereed by Mia Perez, M.D., ENT Pathology Consultant to CTTR

References:

Chomette G, et al. Heterogeneity and Co-Expression of Intermediate Filament Proteins in Adenoid Cystic Carcinoma of Salivary Glands. *Pathol Biol (Paris)* 1991; 39(2):110-116.
Higashi K, et al. Rearrangement of 9p13 as the Primary Chromosomal Aberration in Adenoid Cystic Carcinoma of the Respiratory Tract. Genes Chromosome *Cancer* 1991; 3(1):21-23.
Nara Y, et al. Immunohistochemical Characterization of Extracellular Matrix Components of Salivary Gland Tumours. *Br J Cancer* 1991; 64(2):307-314.
Chaudhry AP, et al. Histogenesis of Adenoid Cystic Carcinoma of the Salivary Glands. Light and Electron Microscopic Study. *Cancer* 1986; 58(1):72-82.
Bomer DL, et al. Rare Tumors of the Ear, Nose and Throat. Third Series; Uncommon Malignant Tumor of the Head and Neck. *Acta Otolaryngol Suppl (Stockh)* 1971; 289:1-25.

Orange (UCI Medical Center Residents) - Polymorphous low grade adenocarcinoma
Glendale - Papillary cystadenocarcinoma
San Diego (Naval Medical Center) - Papillary carcinoma of the thyroid
Nevada (Henderson) - Monomorphic adenoma
Utah (Univ of Utah School of Medicine) - Pleomorphic adenoma
Texas (Houston) - PLGA. Differentiated metastatic from thyroid (papillary) carcinoma
Texas (Ft. Worth) - Adenoid cystic carcinoma
Texas (Fair Oaks Ranch) - Papillary carcinoma of thyroid
Texas (Lubbock) - Papillary carcinoma
Louisianna (River Ridge) - Polymorphous low-grade adenocarcinoma
Mississippi (Brookhaven) - Pleomorphic adenoma
Florida (Miami) - Polymorphous adenocarcinoma
Florida (Winter Haven) - Papillary thyroid carcinoma
Florida (Munroe Regional Medical Center) - Basal cell adenoma
Illinois (Park Ridge) - Polymorphous low-grade adenocarcinoma
Indiana (Fort Wayne) - Papillary adenocarcinoma, right para pharyngeal zone—recurrent? Salivary gland neoplasm (? acinic cell carcinoma)
Kentucky (University of Louisville Pathology Residents) - Polymorphous low grade adenocarcinoma
Kentucky (Lexington) - Polymorphous low grade adenocarcinoma
Wisconsin (Muskego) - Cystadenocarcinoma
Wisconsin (St. Mary's Hospital Medical Center) - Papillary adenocarcinoma, low grade
Michigan (Ann Arbor) - Papillary cystadenocarcinoma
Michigan (St. Mary's Hospital) - Papillary thyroid carcinoma (2)
Ohio (Steuvinville) - Papillary carcinoma
Maryland (National Naval Medical Center) - Adenocarcinoma, NOS (6); Polymorphous low grade carcinoma (6)
Pennsylvania (Pittsburgh) - Papillary carcinoma
Pennsylvania (Conemaugh Memorial Hospital) - Low grade papillary carcinoma/polymorphous low grade carcinoid
New York (NY) - Adenocarcinoma, NOS
New York (Impath) - Polymorphous low grade adenocarcinoma
New York (East Meadow) - Cystadenocarcinoma
Massachusetts (Longmeadow) - Metastatic papillary thyroid carcinoma
England (The Medico-Legal Centre) - Recurrent monomorphic adenoma
Japan (Shizuoka) - Polymorphous low-grade adenocarcinoma
Japan (Kyoto University) - Malignant mixed tumor (3)
Japan (Kurashiki Medical School) - Myoepithelioma
Japan (Hamamatsu University School of Medicine) - Cystadenocarcinoma

Diagnosis:

Polymorphous Low-Grade Adenocarcinoma, Parapharyngeal region*
T55100, M81403

*Case Refereed by Mia Perez, M.D., ENT Pathology Consultant to the CTTR
Additional consultation: *John Batsakis, M.D.*, Texas Medical Center. "Terminal duct adenocarcinoma (*aka* polymorphous low grade adenocarcinoma)."

References:

Evans HL, et al. Polymorphous Low-grade Adenocarcinoma of Minor Salivary Glands. A Study of 14 Cases of a Distinctive Neoplasm. *Cancer* 1984; 53(4):935-942.
Aberle AM, et al. Lobular (Polymorphous Low-Grade) Carcinoma of Minor Salivary Glands. A Clinicopathologic Study of Twenty Cases. *Oral Surg, Oral Med, Oral Pathol* 1985; 60(4):387-395.
Ritland F, Lubensky I and Li Volsi VA. Polymorphous Low-Grade Adenocarcinoma of the Parotid Salivary Gland. *Arch Pathol Lab Med* 1993: 117(12):1261-1263.
Haba A, et al. Polymorphous Low-Grade Adenocarcinoma of the Submandibular Gland Origin 1993; *Acta Pathol Jpn* 1993; 43(12):774-778.

Case No. 6, Accession No. 27557 **September 1999**

Orange (UCI Medical Center Residents) - Glandular odontogenic cyst
Glendale - Monomorphic adenoma
San Diego (Naval Medical Center) - Calcifying epithelial odontogenic tumor ("Pindborg tumor")
Nevada (Henderson) - Basal cell adenoma
Utah (University of Utah School of Medicine) - Mucoepidermoid carcinoma
Texas (Houston) - Ameloblastoma primary in odontogenic keratocyst
Texas (Ft. Worth) - Low grade mucoepidermoid (1); Mucoepidermoid carcinoma (1)
Texas (Fair Oaks Ranch) - Pindborg tumor
Texas (Lubbock) - Acinic tumor
Louisiana (River Ridge) - Ameloblastoma
Mississippi (Brookhaven) - Cystic pleomorphic adenoma
Florida (Miami) - Adenoma, trabecular type
Florida (Munroe Regional Medical Center) - Cystic mixed tumor
Florida (Winter Haven) - Odontogenic cyst
Illinois (Park Ridge) - Cystadenoma
Indiana (Fort Wayne) - Unicystic acanthomatous ameloblastoma, right mandible
Kentucky (University of Louisville Pathology Residents) - Acinic cell carcinoma
Kentucky (Lexington) - Basal cell adenoma
Wisconsin (Muskego) - Mucoepidermoid carcinoma arising in odontogenic cyst
Wisconsin (St. Mary's Hospital Medical Center) - Glomangioma
Michigan (Ann Arbor) - Cystagnoma
Michigan (St. Mary's Hospital) - Benign odontogenic cyst (2)
Ohio (Steuvinville) - Ameloblastoma
Maryland (National Naval Medical Center) - Cystic basal cell adenoma
Pennsylvania (Pittsburgh) - Mucoepidermoid tumor
Pennsylvania (Conemaugh Memorial Hospital) - Calcifying epithelial odontogenic tumor (Pindborg tumor)
New York (NY) - Myoepithelioma
New York (Impath) - Ameloblastoma
New York (East Meadow) - Adenosquamous carcinoma
Massachusetts (Longmeadow) - Cystadenoma of salivary gland
England (The Medico-Legal Centre) - Calcifying odontogenic cyst
Japan (Shizuoka) - Odontogenic keratocyst
Japan (Kyoto University) - Glomus tumor (3)
Japan (Kurashiki Medical School) - Mixed tumor
Japan (Hamamatsu University School of Medicine) - Clear cell myoepithelioma

Diagnosis:

Cystadenoma, Submandibular Area*
T55300, M84400

*Case Refereed by Mia Perez, M.D., ENT Pathology Consultant to CTTR

References:

Eversole LR and Sabes WR. Minor Salivary Gland Duct Changes Due to Obstruction. *Arch Otolaryngol Head Neck Surg* 1971; 94:19-24.
Greene GW, et al. Seromucous Cystadenoma of the Oral Cavity. *J Oral Maxillofac Surg* 1984; 42:48-53.
Kerpel SM, Freedman PD, et al. The Papillary Cystadenoma of Minor Salivary Gland Origin. *Oral Surg Oral Med Oral Pathol* 1978; 46:820-826.
Sher L. The Papillary Cystadenoma of Salivary Gland Origin. *Diastema* 1982; 10:37-41.
Thackray AC and Lucas RB. Tumors of the Major Salivary Glands. *Atlas of Tumor Pathol*, 2nd Series, Facicle 10. Washington, D.C. Armed Forces Institute of Pathology 1974;60.

Orange (UCI Medical Center Residents) - Spindle cell lipoma
Glendale - Solitary fibrous tumor
San Diego (Naval Medical Center) - Spindle cell lipoma
Nevada (Henderson) - DFSP
UTAH (University of Utah School of Medicine) - Fibromyxolipoma
Texas (Houston) - Spindle cell lipoma
Texas (Ft. Worth) - Neurofibroma (2)
Texas (Fair Oaks Ranch) - DFSP
Texas (Lubbock) - Spindle cell lipoma
Louisianna (River Ridge) - Dermatofibrosarcoma protuberans
Mississippi (Brookhaven) - Fibroelastoma
Florida (Miami) - Fibroma (1); Elastofibroma (2)
Florida (Winter Haven) - Spindle cell lipoma
Florida (Munroe Regional Medical Center) - Spindle cell lipoma vs. myxoma
Illinois (Park Ridge) - ?
Indiana (Fort Wayne) - Spindle cell lipoma, right suboccipital area
Kentucky (University of Louisville Pathology Residents) - Spindle cell lipoma
Kentucky (Lexington) - Spindle cell lipoma
Wisconsin (Muskego) - Spindle cell lipoma
Wisconsin (St. Mary's Hospital Medical Center) - Myofibroblastic tumor (solitary fibrous tumor)
Michigan (Ann Arbor) - Spindle cell lipoma
Michigan (St. Mary's Hospital) - Solitary fibrous tumor (2)
Ohio (Steuvinville) - Dermatofibrosarcoma protuberans (DESP)
Maryland (National Naval Medical Center) - Spindle cell lipoma
Pennsylvania (Pittsburgh) - Spindle cell lipoma
Pennsylvania (Conemaugh Memorial Hospital) - Angiomyolipoma/solitary fibrous tumor
New York (NY) - Dermatofibrosarcoma protuberans
New York (Impath) - Spindle cell lipoma
New York (East Meadow) - Hemangiolipoma
Massachusetts (Longmeadow) - Spindle cell lipoma
England (The Medico-Legal Centre) - Spindle cell lipoma
Japan (Shizuoka) - Neurofibroma
Japan (Kyoto University) - Epithelioid sarcoma (1)
Japan (Kurashiki Medical School) - Hidradenoma
Japan (Hamamatsu University of Medicine) - Neurofibroma

Diagnosis:

Spindle Cell Lipoma, Suboccipital region*
TY0141, M88570

*Case Refereed by Mia Perez, M.D., ENT Pathology Consultant to the CTTR

References:

Fletcher CDM, et al. Correlation Between Clinicopathologic Features and Karyotype in Lipomatous Tumors. A Report of 178 Cases from the Chromosomes and Morphology (CHAMP) Collaborative Study Group. *Am J Pathol 1996*; 148(2):623-630.
Bolen GW, et al. Spindle Cell Lipoma. A Clinical Light- and Electron Microscopic Study. *Am J Surg Pathol* 1981; 5(5):435-441.
Hewley IC, Krausz T, Evans DJ, Fletcher CD. Spindle Cell Lipoma-A Pseudoangiomatous Variant. *Histopathol* 1994; 24(6):565-569.

Orange (UCI Medical Center Residents) - Synovial sarcoma
Glendale - Monophasic synovial sarcoma
San Diego (Naval Medical Center) - Synovial sarcoma
Nevada (Henderson) - Epithelioid sarcoma
Utah (University of Utah School Medicine) - Synovial sarcoma
Texas (Houston) - Monophasic synovial sarcoma
Texas (Ft. Worth) - Monophasic synovial cell carcinoma (2)
Texas (Fair Oaks Ranch) - Spindle cell carcinoma
Texas (Lubbock) - Monophasic synoviosarcoma
Louisiana (River Ridge) - Carcinosarcoma
Mississippi (Brookhaven) - Synovial sarcoma
Florida (Miami) - Spindle cell squamous cell carcinoma (2)
Florida (Winter Haven) - Sarcoma
Florida (Munroe Regional Medical Center) - Myoepithelioma
Illinois (Park Ridge) - Fibrosarcoma
Indiana (Ft. Wayne) - Spindle cell carcinoma (sarcomatoid carcinoma), right neck (? origin in tongue)
Kentucky (University of Louisville Pathology Residents) - Synovial sarcoma (monophasic)
Kentucky (Lexington) - Synovial sarcoma
Wisconsin (Muskego) - Synovial sarcoma
Wisconsin (St. Mary's Hospital Medical Center) - Spindle cell sarcoma arising in a pleomorphic adenoma
Michigan (Ann Arbor) - Synovial sarcoma
Michigan (St. Mary's Hospital) - Synovial sarcoma (2)
Ohio (Steuvinville) - Leiomyosarcoma
Maryland (National Naval Medical Center) - Synovial sarcoma (monomorphic)
Pennsylvania (Pittsburgh) - Papillary carcinoma
Pennsylvania (Conemaugh Memorial Hospital) - Spindle cell carcinoma (sarcomatoid carcinoma)
New York (NY) - Malignant melanoma, spindle cell type
New York (Impath) - Poorly differentiated invasive carcinoma, ? myoepithelial carcinoma, ? synovial sarcoma
New York (East Meadow) - Myoepithelial carcinoma, spindled type
Massachusetts (Longmeadow) - Monophasic fibrous type of mesothelioma, recurrent
England (The Medico-Legal Centre) - Sarcomatoid carcinoma
Japan (Shizuoka) - Synovial sarcoma
Japan (Kyoto University) - Synovial sarcoma (3)
Japan (Kurashiki Medical School) - Spindle cell lipoma
Japan (Hamamatsu University School of Medicine) - Myoepithelial carcinoma

Diagnosis:

Monophasic Fibrous Synovial Sarcoma, Mandible*
T10180, M90403

*Case Refereed by Mia Perez, M.D., ENT Pathology Consultant to the CTTR

References:

Nelson G, et al. Synovial Sarcoma. An Immunohistochemical and Ultrastructural Study. *Hum Pathol* 1990; 21(7):733-749.
Gilgenkrantz S, Chery M, Teboul M, et al. Sublocalization of the X Breakpoint in Translocation. (X;18) (p11.2; q 11.2) Primary Change in Synovial Sarcomas *Oncogene* 1990; 5(7):1063-1066.
Clark J, Rocques PJ, Crew AJ, et al. Identification of Novel Genes SYT and SSX Involved in the t (X;18) (p11.2; q 11.2) Translocation Found in Synovial Sarcoma. *Nat Genet* 1994; 7(4):502-505.
Amble FR, et al. Head and Neck Synovial Sarcoma. *Otolaryngol Head and Neck Surg* 1992; 107(5):631-637.
Roth JA, et al. Synovial Sarcoma of the Neck. A Follow-Up Study of 24 Cases. *Cancer* 1975; 35(4):1243-1253.

Orange (UCI Medical Center Residents) - Chondrosarcoma
Glendale - Chordoma
San Diego (Naval Medical Center) - Chondroblastic osteosarcoma (4); Chondroid chordoma (3); Low grade chondrosarcoma (2)
Nevada (Henderson) - Odontogenic fibroma
Utah (University of Utah School of Medicine) - Grade I, chondrosarcoma
Texas (Houston) - Chondroid chondroma
Texas (Ft. Worth) - Low grade chondrosarcoma (2)
Texas (Fair Oaks Ranch) - Chordoma
Texas (Lubbock) - Chondrosarcoma
Louisiana (River Ridge) - Chondrosarcoma
Mississippi (Brookhaven) - Low grade chondrosarcoma
Florida (Miami) - Chordoma
Florida (Winter Haven) - Chondrosarcoma
Florida (Munroe Regional Medical Center) - Chondrosarcoma
Illinois (Park Ridge) - Chordoma
Indiana (Ft. Wayne) - Chondrosarcoma, paranasal sinuses
Kentucky (University of Louisville Pathology Residents) - Chordoma
Kentucky (Lexington) - Chondrosarcoma
Wisconsin (Muskego) - Favor chondrosarcoma (need cytokeratin, EMA, lysozyme, to rule out chordoma)
Wisconsin (St. Mary's Hospital Medical Ctr) - Chondrosarcoma
Michigan (Ann Arbor) - Chondrosarcoma, grade I
Michigan (St. Mary's Hospital) - Chordoma (2)
Ohio (Steuvinville) - Chordoma
Maryland (National Naval Medical Center) - Chordoma
Pennsylvania (Pittsburgh) - Chondrosarcoma
Pennsylvania (Conemaugh Memorial Hospital) - Chondrosarcoma, low grade
New York (NY) - Chondrosarcoma
New York (Impath) - Low grade chondrosarcoma
New York (East Meadow) - Chondrosarcoma
Massachusetts (Longmeadow) - Differentiated chondrosarcoma
England (The Medico-Legal Centre) - Chondrosarcoma, grade 2
Japan (Shizuoka) - Chordoma
Japan (Kyoto University) - Chondroid chordoma (3)
Japan (Kurashiki Medical School) - Chondrosarcoma
Japan (Hamamatsu University School of Medicine) - Chondroid chordoma

Diagnosis:

Low-Grade Chondrosarcoma, Paranasal Sinuses*
T22000, M92203

*Case Referred by Mia Perez, M.D., ENT Pathology Consultant to CTTR

References:

Fu YS, et al. Nonepithelial Tumors of the Nasal Cavity, Paranasal Sinuses, and Nasopharynx. A Clinicopathologic Study 3 Cartilaginous Tumors (Chondroma, Chondrosarcoma). *Cancer* 1974; 34(2):453-463.
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Orange (UCI Medical Center Residents) - Oncocytic carcinoma
Glendale - Polymorphous low grade adenocarcinoma
San Diego (Naval Medical Center) - Salivary duct carcinoma (6); Oncocytic carcinoma (3)
Nevada (Henderson) - Hurthle cell carcinoma
Utah (University of Utah School of Medicine) - Metastatic renal cell carcinoma vs. oncocytic carcinoma
Texas (Houston) - Acinic cell carcinoma
Texas (Ft. Worth) - Acinar cell carcinoma
Texas (Fair Oaks Ranch) - Acinic cell carcinoma
Texas (Lubbock) - Acinic tumor
Texas (River Ridge) - Acinic cell carcinoma
Mississippi (Brookhaven) - Adenocarcinoma, salivary duct origin?
Florida (Miami) - Acinic cell carcinoma (2); Carcinoma, NOS (1)
Florida (Winter Haven) - Acinic cell adenocarcinoma
Florida (Munroe Regional Medical Center) - Acinic cell carcinoma
Illinois (Park Ridge) - Oncocytic carcinoma
Indiana (Ft. Wayne) - Acinic cell carcinoma, right submandibular gland
Kentucky (University of Louisville Pathology Residents) - Mucoepidermoid carcinoma
Kentucky (Lexington) - Salivary duct carcinoma
Wisconsin (Muskego) - Adenocarcinoma, favor metastatic (especially breast)—Cannot entirely rule out acinic cell carcinoma need clinical info and IPX (GCDFP, ER, PR)
Wisconsin (St. Mary's Hospital Medical Center) - Salivary gland duct adenocarcinoma
Michigan (Ann Arbor) - Ductal carcinoma
Michigan (St. Mary's Hospital) - Acinic cell carcinoma (2)
Ohio (Steuvinville) - Acinic cell carcinoma
Maryland (National Naval Medical Center) - Oncocytic carcinoma
Pennsylvania (Pittsburgh) - Oncocytic acinic cell tumor, rule out breast carcinoma
Pennsylvania (Conemaugh Memorial Hospital) - Mucoepidermoid carcinoma, high grade. Adenocarcinoma, NOS
New York (NY) - Acinic cell carcinoma
New York (Impath) - Acinic cell carcinoma
New York (East Meadow) - Adenocarcinoma, not otherwise specified
Massachusetts (Longmeadow) - Acinic cell carcinoma, submandibular gland
England (The Medico-Legal Centre) - Acinic cell tumor
Japan (Shizuoka) - Acinic cell carcinoma
Japan (Kyoto University) - Acinic cell carcinoma (3)
Japan (Kurashiki Medical School) - Synovial sarcoma
Japan (Hamamatsu University School of Medicine) - Acinic cell carcinoma

Diagnosis:

Adenocarcinoma, NOS, Submandibular Gland*
T55300, M81403

*Case Refereed by Mia Perez, M.D., ENT Pathology Consultant to the CTTR
Additional consultations: *Lee J Slater, M.D.,* Colonel, AFIP, Washington, DC. "Right submandibular region, adenocarcinoma, NOS." and, *E. Leon Barnes, Jr., M.D.* UPMC Health System, Presbyteria, Pittsburgh, PA. "Invasive adenocarcinoma, well to moderately differentiated, with perineural invasion."

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