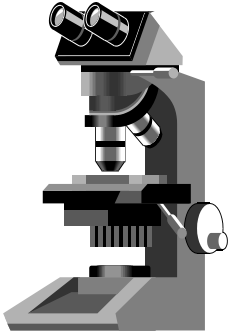


CALIFORNIA  
TUMOR TISSUE REGISTRY



*HEAD AND NECK PATHOLOGY*

Minutes – Subscription A

September 1999

**SUGGESTED READING (General Topics from Recent Literature):**

Practice Patterns and Clinical Guidelines for Posttreatment Follow-up of Head and Neck Cancers. A Comparison of 2 Professional Societies. Paniello RC, Virgo KS, Johnson MH, Clemente MF and Johnson FE. *Arch Otolaryngol Head Neck Surg* 1999; 125(3):309-313.

Epithelioid Hemangioendothelioma of the Liver. A Clinicopathologic Study of 137 Cases. Makhoul 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  
Loma Linda University School of Medicine  
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Loma Linda, California 92350  
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FAX: (909) 558-0188  
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Inland (Riverside/San Bernardino) - Fibrous dysplasia  
Los Angeles - Ossifying fibroma  
Bakersfield (San Joaquin Comm Hospital) - Fibrous dysplasia  
Ventura (Unilab) - Fibrous dysplasia (2)  
Orange (UCI Medical Center Residents) - Ossifying fibroma  
Santa Rosa - Ossifying fibroma (2)  
Long Beach - Fibro-ossifying lesion consistent with fibrous dysplasia (4)  
Bay Area - Ossifying fibroma (4)  
Santa Clara - Osteoma (6)  
Monterey (Community Hospital of Peninsula) - Fibrous dysplasia  
San Diego (Naval Medical Center) - Fibrous dysplasia (7); Ossifying fibroma (6)  
Santa Barbara (Cottage Hospital) - Fibrous dysplasia  
Howard/Fremont (Western Laboratories) - Ossifying fibroma (5)  
Mountain View (El Camino Hospital) - Fibro-osseous lesion - intermediate features between fibrous dysplasia and ossifying fibroma  
Texas (Texas Tech Medical Hlth Ctr) - Ossifying fibroma  
Nebraska (Creighton) - Osteofibrous dysplasia  
Wisconsin (Meriter Hospital) - Fibrous dysplasia of jaw  
Louisiana (Shreveport) - Ossifying fibroma  
Michigan (St. Joseph Mercy Hospital) - Fibrous dysplasia (4); Ossifying fibroma (1)  
Ohio (Worthington) - Fibrous dysplasia of bone  
Florida (Tallahassee) - Fibrous dysplasia (4)  
Maryland (Woodbine) - Ossifying fibroma (2)  
Maryland (National Naval Medical Center) - Benign fibro-osseous lesion (5); Fibrous dysplasia (5)  
Pennsylvania (Lehigh Valley Hospital) - Ossifying fibroma (3); Osteoma (1)  
Pennsylvania (LVH Pathology Associates) - Fibrous dysplasia of maxilla  
Pennsylvania (Conemaugh Memorial Hospital) - Ossifying fibroma  
New Hampshire (Catholic Medical Center) - Fibrous dysplasia  
New Jersey (Summit) - Benign fibro-osseous lesion, probably ossifying fibroma (3); Fibrous dysplasia (1)  
New York (Impath) - Ossifying fibroma of jaw  
New York (Northport) - Ossifying fibroma  
New York (White Plains) - Fibro-osseous lesion of the maxilla  
Canada (VGH Anatomic Pathology) - Fibrous dysplasia vs ossifying fibroma  
Saudi Arabia (King Khalid Univ Hospital) - Osteofibrous dysplasia of right maxilla  
Japan (Shimada City) - Osteoma  
Japan (Kurashiki Medical School) - Osteoma

**Diagnosis:**

**Fibro-osseous Lesion, Consistent with Fibrous Dysplasia, Right Maxilla\***

T10170, M74910

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

**References:**

Harris WH, Dudley HR Jr., and Barry RJ. The Natural History of Fibrous Dysplasia. *J Bone Joint Surg (AM)* 1962; 44:207-233.  
Park Y-K, Unni KK, McLeod RA and Pritchard DJ. Osteofibrous Dysplasia. Clinicopathologic Study of 80 Cases *Hum Pathol* 1993; 24(12):1339-1347.  
Bridge JA, Dembinski A, DeBoer J, et al. Clonal Chromosomal Abnormalities in Osteofibrous Dysplasia. Implications for Histopathogenesis and Its Relationship with Adamantinoma. *Cancer* 1994; 73(6):1746-1752.  
Voytek TM. Fibrous Dysplasia and Cemento-Ossifying Fibroma. A Histologic Spectrum. *Am J Surg Pathol* 1995; 19(7):775-781.

Inland (Riverside/San Bernardino) - Malignant melanoma  
Los Angeles - Malignant melanoma  
Bakersfield (San Joaquin Comm Hospital) - Melanoma  
Ventura (Unilab) - Metastatic melanoma (2)  
Orange (UCI Medical Center Residents) - Melanoma  
Santa Rosa - Melanoma (2)  
Long Beach - Malignant melanoma (4)  
Bay Area - Malignant melanoma (4)  
Santa Clara - Melanoma (6)  
Monterey (Community Hospital of Monterey Peninsula) - Melanoma  
San Diego (Naval Medical Center) - Malignant melanoma (13)  
Santa Barbara (Cottage Hospital) - Metastatic melanoma  
Howard/Fremont (Western Laboratories) - Melanoma (5)  
Mountain View (El Camino Hospital) - Melanoma (pharyngeal primary)  
Texas (Texas Tech Medical Hlth Ctr) - Malignant melanoma  
Nebraska (Creighton) - Melanoma  
Wisconsin (Meriter Hospital) - Melanoma “involving” pharynx, 1° vs 2°  
Louisiana (Shreveport) - Metastatic melanoma  
Michigan (St. Joseph Mercy Hospital) - Melanoma (5)  
Ohio (Worthington) - Malignant melanoma  
Florida (Tallahassee) - Malignant melanoma (4)  
Maryland (Woodbine) - Melanoma (2)  
Maryland (National Naval Medical Center) - Metastatic malignant melanoma  
Pennsylvania (Lehigh Valley Hospital) - Malignant melanoma (2); Melanoma (1); Malignant melanoma, lymph node metastases (1)  
Pennsylvania (LVH Pathology Associates) - Malignant melanoma of oro-laryngopharynx area.  
Pennsylvania (Conemaugh Memorial Hospital) - Malignant melanoma  
New Hampshire (Catholic Medical Center) - Malignant melanoma  
New Jersey (Summit) - Malignant melanoma (4)  
New York (Impath) - Melanoma  
New York (Northport) - Melanoma  
New York (White Plains) - Melanoma  
Canada (VGH Anatomic Pathology) - Malignant melanoma  
Saudi Arabia (King Khalid Univ Hospital) - Malignant melanoma of pharynx  
Japan (Shimada City) - Malignant melanoma  
Japan (Kurashiki Medical School) - Malignant melanoma

**Diagnosis:**

**Mucosal Malignant Melanoma, Pharynx\***

T6000, M87203

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

**References:**

- Batsakis JG, et al. Mucosal Melanomas of the Head and Neck. *Ann Otol Rhinol Laryngol* 1998; 107(7):626-630.  
Manolidis S, et al. Malignant Mucosal Melanoma of the Head and Neck. Review of the Literature and Report of 14 Patients. *Cancer* 1997; 80(8):1373-1386.  
Eneroth CM, et al. Mucosal Malignant Melanomas of the Head and Neck with Special Reference to Cases Having a Prolonged Clinical Course. *Acta Otolaryngol* (Stockh) 1975; 80(5-6):452-458.  
Billings KR, et al. Clinical and Pathologic Distinction Between Primary and Metastatic Mucosal Melanoma of the Head and Neck. *Otolaryngol Head Neck Surg* 1995; 112(6):700-706.  
Snow GB, et al. Mucosal Melanomas of the Head and Neck. *Otolaryngol Clin North Am* 1986; 19(3):537-547.

Inland (Riverside/San Bernardino) - Poorly differentiated carcinoma  
Los Angeles - Poorly differentiated squamous cell carcinoma  
Bakersfield (San Joaquin Comm Hospital) - Poorly differentiated carcinoma  
Ventura (Unilab) - Undifferentiated malignant neoplasm, NOS (2)  
Orange (UCI Medical Center Residents) - Poorly differentiated carcinoma, NOS  
Santa Rosa - Rhabdomyosarcoma (1); Malignant, rule out rhabdomyosarcoma (1)  
Long Beach - Poorly differentiated adenocarcinoma (4)  
Bay Area - Neuroendocrine carcinoma (2); Poorly differentiated carcinoma (2)  
Santa Clara - Poorly differentiated squamous carcinoma (6)  
Monterey (Community Hospital of Monterey Peninsula) - Poorly differentiated squamous carcinoma  
San Diego (Naval Medical Center) - Poorly differentiated carcinoma (8); Poorly differentiated adenocarcinoma (5)  
Santa Barbara (Cottage Hospital) - Poorly differentiated adenocarcinoma  
Hayward/Fremont (Western Laboratories) - Poorly differentiated carcinoma (5)  
Mountain View (El Camino Hospital) - Undifferentiated carcinoma, esophagus  
Texas (Texas Tech Medical Hlth Ctr) - Carcinoma, NOS  
Nebraska (Creighton) - Poorly differentiated carcinoma  
Wisconsin (Meriter Hospital) - Undifferentiated malignant "pleomorphic" neoplasm probably squamous cell carcinoma, grade 3 of 3. Need muscle markers to exclude sarcoma, myxoid neurofibroma vs. low grade fibrosarcoma vs. plexiform histiocytic tumor  
Louisiana (Shreveport) - Poorly differentiated carcinoma  
Michigan (St. Joseph Mercy Hospital) - Poorly differentiated carcinoma (5)  
Ohio (Worthington) - Undifferentiated carcinoma  
Florida (Tallahassee) - Poorly differentiated adenocarcinoma; Poorly differentiated carcinoma favor adenocarcinoma (4)  
Maryland (Woodbine) - Poorly differentiated squamous cell carcinoma (1); Undifferentiated carcinoma (1)  
Maryland (National Naval Medical Center) - Poorly differentiated carcinoma (11); Poorly differentiated carcinoma with neuroendocrine features (3)  
Pennsylvania (Lehigh Valley Hospital) - Large cell poorly differentiated carcinoma (1); Poorly differentiated squamous cell carcinoma (1); Poorly differentiated carcinoma (2)  
Pennsylvania (LVH Pathology Associates) - Poorly differentiated carcinoma (squamous?) of esophagus  
Pennsylvania (Conemaugh Memorial Hospital) - Poorly differentiated squamous cell carcinoma with rhabdoid differentiation  
New Hampshire (Catholic Medical Center) - Invasive poorly differentiated carcinoma  
New Jersey (Summit) - Undifferentiated carcinoma (4)  
New York (Impath) - Poorly differentiated invasive carcinoma  
New York (Northport) - Pseudosarcomatous (spindle cell) squamous carcinoma  
New York (White Plains) - Poorly differentiated adamantinoma  
Canada (VGH Anatomic Pathology) - Undifferentiated carcinoma  
Saudi Arabia (King Khalid Univ Hospital) - Poorly differentiated squamous cell carcinoma of esophagus  
Japan (Shimada City) - Pseudosarcomatous squamous cell carcinoma  
Japan (Kurashiki Medical School) - Undifferentiated carcinoma

**Diagnosis:**

**Poorly Differentiated Carcinoma, Esophagus\***

T62000, M80103

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

**References:**

Mandard AM, et al. Cancer of the Esophagus and Associated Lesions. Detailed Pathologic Study of 100 Esophagectomy Specimens. *Hum Pathol* 1984(7); 15:660-669.

Inland (Riverside/San Bernardino) - Adenocarcinoma, NOS  
Los Angeles - Pleomorphic adenoma  
Bakersfield (San Joaquin Comm Hospital) - Mucoepidermoid tumor  
Ventura (Unilab) - Mucoepidermoid carcinoma (2)  
Orange (UCI Medical Center Residents) - Polymorphous low grade adenocarcinoma  
Santa Rosa - Adenocarcinoma or high grade mucoepidermoid carcinoma (1); Malignant, mucoepidermoid carcinoma, or adenocarcinoma (1);  
Long Beach - Papillary carcinoma of thyroid tissue origin (4)  
Bay Area - Polymorphous low grade adenocarcinoma (2); Papillary carcinoma of lingual thyroid, aberrant (1); Papillary carcinoma of minor salivary gland (1)  
Santa Clara - Papillary thyroid carcinoma (foramen cecum origin) (6)  
Monterey (Community Hospital of Monterey Peninsula) - Adenocarcinoma  
San Diego (Naval Medical Center) - Adenocarcinoma, NOS (12); Polymorphous low grade adenocarcinoma (1)  
Santa Barbara (Cottage Hospital) - Low grade polymorphous adenocarcinoma  
Hayward/Fremont (Western Laboratories) - Mucoepidermoid carcinoma (5)  
Mountain View (El Camino Hospital) - Polymorphous low grade adenocarcinoma  
Texas (Texas Tech Medical Hlth Ctr) - Monomorphic adenoma  
Nebraska (Creighton) - Polymorphous low grade adenocarcinoma  
Wisconsin (Meriter Hospital) - PLGA of palate  
Louisiana (Shreveport) - Muco-epidermoid carcinoma  
Michigan (St. Joseph Mercy Hospital) - Polymorphous low grade adenocarcinoma (5)  
Ohio (Worthington) - Papillary carcinoma, possibly thyroid origin from ectopic thyroid  
Florida (Tallahassee) - Polymorphous low grade adenocarcinoma of the salivary gland (4)  
Maryland (Woodbine) - Terminal duct carcinoma (polymorphous low grade adenocarcinoma (2)  
Maryland (National Naval Medical Center) - Adenocarcinoma, NOS (11); Polymorphous low grade adenocarcinoma (3)  
Pennsylvania (Lehigh Valley Hospital) - Polymorphous low-grade adenocarcinoma (1); Mucoepidermoid carcinoma (1); Mucoepidermoid carcinoma vs polymorphous low grade CA ? mucoepidermoid (1); Polymorphous low grade carcinoma (1)  
Pennsylvania (LVH Pathology Associates) - Epithelioid angiosarcoma (with septate vacuoles and intra-angiomatous RBC's collections)  
Pennsylvania (Conemaugh Memorial Hospital) - Polymorphous low grade carcinoma  
New Hampshire (Catholic Medical Center) - Favor monomorphic adenoma  
New Jersey (Summit) - Polymorphous low grade adenocarcinoma (3); Undifferentiated adenocarcinoma (1)  
New York (Impath) - Polymorphous low grade adenocarcinoma  
New York (Northport) - Adenocarcinoma possibly of minor salivary gland origin  
New York (White Plains) - Papillary carcinoma of ectopic thyroid  
Canada (VGH Anatomic Pathology) - Polymorphous low-grade carcinoma  
Saudi Arabia (King Khalid Univ Hospital) - Polymorphous low grade adenocarcinoma of palate  
Japan (Shimada City) - Canalicular adenoma  
Japan (Kurashiki Medical School) - Polymorphous low-grade adenocarcinoma

**Diagnosis:****Polymorphous Low Grade Adenocarcinoma, Palate\***

T51100, M81403

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

**References:**

Aberle AM, Abrams AM, Bowe R, Melrose RJ, et al. Lobular (Polymorphous Low-Grade) Carcinoma of Minor Salivary Glands. A Clinicopathologic Study of Twenty Cases. *Oral Surg Oral Med Pathol* 1984; 60:387-395.  
 Evans HL and Batsakis JG. Polymorphous Low-Grade Adenocarcinoma of Minor Salivary Glands. A Study of 14 Cases of a Distinctive Neoplasm. *Cancer* 1984; 53(4):935-942.

Inland (Riverside/San Bernardino) - Neurilemmoma  
Los Angeles - Fibromyoma  
Bakersfield (San Joaquin Comm Hospital) - Fibromatosis  
Ventura (Unilab) - Nodular fasciitis (2)  
Orange (UCI Medical Center Residents) - Myxofibrosarcoma (myxoid malignant fibrous histiocytoma)  
Santa Rosa - Neurofibroma, rule out myxoid fibroid histiocytoma (1); Mesenchymal neoplasm, benign (fibrosis vs. fibrous histiocytoma)  
Long Beach - Neurofibroma (4)  
Bay Area - Desmoplastic fibroma (1); Neurothecoma (1); Benign fibromatosis (2)  
Santa Clara - Fibromatosis (6)  
Monterey (Community Hospital of Monterey Peninsula) - Neurofibroma  
San Diego (Naval Medical Center) - Perineurioma (5); Diffuse neurofibroma (7); Low grade neurofibrosarcoma (1)  
Santa Barbara (Cottage Hospital) - Myxoid neurofibroma  
Hayward/Fremont (Western Laboratories) - Fibromatosis (1); Recurrent neurofibroma (4)  
Mountain View (El Camino Hospital) - Low grade fibromyxoid sarcoma  
Texas (Texas Tech Medical Hlth Ctr) - Meningioma  
Nebraska (Creighton) - Perineuroma  
Wisconsin (Meriter Hospital) - Atypical myxoid spindle cell lesion. Need additional immunostains including CD4  
Louisiana (Shreveport) - Fibroma vs benign myofibroblastic tumor, NOS  
Michigan (St. Joseph Mercy Hospital) - Low grade fibromyxoid sarcoma (3); Fibromyxoma (1); Fibromatosis (1)  
Ohio (Worthington) - Solitary fibrous tumor  
Florida (Tallahassee) - Myxoid neurofibroma, myxoma (4)  
Maryland (Woodbine) - Myxoma (1); Spindle cell lipoma (1)  
Maryland (National Naval Medical Center) - Low grade fibromyxoid tumor  
Pennsylvania (Lehigh Valley Hospital) - Neurofibroma (1); Fibromatosis (2); Perineuroma (1)  
Pennsylvania (LVH Pathology Associates) - Malignant peripheral nerve sheath tumor (MPNST) low grade type  
Pennsylvania (Conemaugh Memorial Hospital) - Intramuscular myxoma/low grade myxofibrosarcoma  
New Hampshire (Catholic Medical Center) - Fibromyxoma  
New Jersey (Summit) - Fibromatosis (3); Myxoma (1)  
New York (Impath) - Low grade fibromyxoid sarcoma  
New York (Northport) - Fibromatosis  
New York (White Plains) - Spindle cell lipoma  
Canada (VGH Anatomic Pathology) - Low-grade fibromyxoid sarcoma  
Saudi Arabia (King Khalid Univ Hospital) - Low-grade fibromyxoid sarcoma  
Japan (Shimada City) - Extraabdominal desmoid tumor  
Japan (Kurashiki Medical School) - Perineural fibroma

**Diagnosis:**

**Low-Grade Fibromyxoid Sarcoma, Neck**

T60600, M88103

**References:**

Evans HL. Low Grade Fibromyxoid Sarcoma. A Report of Two Metastasizing Neoplasms Having a Deceptively Benign Appearance. *Am J Clin Pathol* 1987; 88:615-619.  
Evans HL. Low Grade Fibromyxoid Sarcoma. A Report of 12 Cases. *Am J Surg Pathol* 1993; 17:595-600.

Inland (Riverside/San Bernardino) - Undifferentiated carcinoma  
Los Angeles - Malignant lymphoepithelial lesion  
Bakersfield (San Joaquin Comm Hospital) - Malignant lymphoepithelial lesion  
Ventura (Unilab) - Myoepithelial carcinoma (2)  
Orange (UCI Medical Center Residents) - Myoepithelial carcinoma  
Santa Rosa - Malignant lymphoepithelial tumor (2)  
Long Beach - Anaplastic carcinoma (4)  
Bay Area - Salivary duct carcinoma (1); Malignant oncocyoma (1); Poorly differentiated carcinoma of salivary gland (1); Malignant lymphoepithelial lesion (1)  
Santa Clara - Melanoma (3); Epithelioid hemangioendothelioma (3)  
Monterey (Community Hospital of Monterey Peninsula) - Carcinoma, NOS  
San Diego (Naval Medical Center) - Lymphoepithelial carcinoma (13)  
Santa Barbara (Cottage Hospital) - Poorly differentiated squamous cell carcinoma, ?metastasis  
Hayward/Fremont (Western Laboratories) - Poorly differentiated carcinoma (4); Lymphoepithelial carcinoma (1)  
Mountain View (El Camino Hospital) - Undifferentiated carcinoma so-called "lymphoepithelioma-like carcinoid"  
Texas (Texas Tech Medical Hlth Ctr) - Adenocarcinoma  
Nebraska (Creighton) - Large cell undifferentiated carcinoma  
Wisconsin (Meriter Hospital) - Salivary duct carcinoma vs 2° carcinoma  
Louisiana (Shreveport) - Carcinoma with lymphoid stroma  
Michigan (St. Joseph Mercy Hospital) - Lymphoepithelioma-like carcinoma (4); Undifferentiated carcinoma (1)  
Ohio (Worthington) - Mucoepidermoid carcinoma, high grade  
Florida (Tallahassee) - Poorly differentiated mucoepidermoid carcinoma; Poorly differentiated carcinoma, salivary duct carcinoma (4)  
Maryland (Woodbine) - Undifferentiated carcinoma (1); Metastatic melanoma (1)  
Maryland (National Naval Medical Center) - Lymphoepithelial carcinoma  
Pennsylvania (Lehigh Valley Hospital) - Poorly differentiated squamous cell carcinoma (1); Acinic cell carcinoma (1); Adenocarcinoma (1); Lymphoepithelial-like carcinoma (1)  
Pennsylvania (LVH Pathology Associates) - Poorly differentiated adenocarcinoma of parotid gland (1)  
Pennsylvania (Conemaugh Memorial Hospital) - Mucoepidermoid carcinoma, high grade  
New Hampshire (Catholic Medical Center) - Malignant tumor, favor angiosarcoma  
New Jersey (Summit) - Myoepithelial carcinoma (2); ? malignant myoepithelioma (1); Poorly-differentiated carcinoma (1)  
New York (Impath) - Salivary duct carcinoma  
New York (Northport) - Carcinoma  
New York (White Plains) - Large cell undifferentiated carcinoma  
Canada (VGH Anatomic Pathology) - Lymphoepithelial carcinoma  
Saudi Arabia (King Khalid Univ Hospital) - High grade mucoepidermoid carcinoma  
Japan (Shimada City) - Kaposi's sarcoma  
Japan (Kurashiki Medical School) - Undifferentiated carcinoma

**Diagnosis:**

**Lymphoepithelioma-Like Carcinoma, Parotid\***

T55100, M80823

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

**References:**

Batsakis JG and Luna MA. Undifferentiated Carcinoma of Salivary Glands. *Ann Otol Rhinol Laryngol* 1991; 100(1):82-84.  
Nagao K, Matsuzaki O, Saiga H, et al. Histopathologic Studies of Undifferentiated Carcinoma of the Parotid Gland. *Cancer* 1982; 50(8):1572-1579.

Inland (Riverside/San Bernardino) - Malignant mixed tumor  
Los Angeles - Pleomorphic adenoma  
Bakersfield (San Joaquin Comm Hospital) - Pleomorphic adenoma  
Ventura (Unilab) - Pleomorphic adenoma (2)  
Orange (UCI Medical Center Residents) - Pleomorphic adenoma  
Santa Rosa - Pleomorphic adenoma (mixed tumor) (1); Pleomorphic adenoma (MT)  
Long Beach - Mixed tumor (4)  
Bay Area - Pleomorphic adenoma (4)  
Santa Clara - Pleomorphic adenoma (6)  
Monterey (Community Hospital of Monterey Peninsula) - Mixed tumor  
San Diego (Naval Medical Center) - Mixed tumor (13)  
Santa Barbara (Cottage Hospital) - Pleomorphic adenoma  
Hayward/Fremont (Western Laboratories) - Mixed tumor (5)  
Mountain View (El Camino Hospital) - Mixed tumor with prominent myoepithelial component (hyaline-cell type)  
Texas (Texas Tech Medical Hlth Ctr) - Pleomorphic adenoma, atypical  
Nebraska (Creighton) - Pleomorphic adenoma  
Wisconsin (Meriter Hospital) - Cellular mixed tumor vs. myoepithelioma  
Louisiana (Shreveport) - Pleomorphic adenoma  
Michigan (St. Joseph Mercy Hospital) - Mixed tumor (pleomorphic adenoma) (5)  
Ohio (Worthington) - Pleomorphic adenoma with focal oncocytic metaplasia  
Florida (Tallahassee) - Pleomorphic adenoma(4)  
Maryland (Woodbine) - Pleomorphic adenoma (2)  
Maryland (National Naval Medical Center) - Pleomorphic adenoma  
Pennsylvania (Lehigh Valley Hospital) - Pleomorphic adenoma (3); Mucoepidermoid carcinoma (1)  
Pennsylvania (LVH Pathology Associates) - Mucoepidermoid carcinoma of submandibular gland  
Pennsylvania (Conemaugh Memorial Hospital) - Pleomorphic adenoma with myoepithelial differentiation  
New Hampshire (Catholic Medical Center) - Pleomorphic adenoma  
New Jersey (Summit) - Mixed tumor (2); Malignant mixed tumor (2)  
New York (Impath) - Mixed tumor of salivary gland  
New York (Northport) - Carcinoma ex pleomorphic adenoma  
New York (White Plains) - Carcinoma ex-mixed tumor  
Canada (VGH Anatomic Pathology) - Pleomorphic adenoma  
Saudi Arabia (King Khalid Univ Hospital) - Multifocal pleomorphic adenoma of parotid  
Japan (Shimada City) - Mixed tumor  
Japan (Kurashiki Medical School) - Mixed tumor

**Diagnosis:**

**Pleomorphic Adenoma, Parotid\***

T55100, M89400

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

**References:**

- Noguchi S, et al. Demonstration of Monoclonal Origin of Human Parotid Gland Pleomorphic Adenoma. *Cancer* 1996; 77(3):431-435.  
Dardick I, et al. Pleomorphic Adenoma. Ultrastructural Organization of "Epithelial" Regions. *Hum Pathol* 1983; 14(9):780-797.  
Martin AR, et al. Proliferative Activity and Aneuploidy in Pleomorphic Adenomas of the Salivary Glands. *Arch Pathol Lab Med* 1994; 118(3):252-259.



Inland (Riverside/San Bernardino) - Adenocarcinoma  
Los Angeles - Synovial sarcoma  
Bakersfield (San Joaquin Comm Hospital) - Papillary carcinoma  
Ventura (Unilab) - Papilloma (2)  
Orange (UCI Medical Center Residents) - Synovial sarcoma  
Santa Rosa - Papillary adenocarcinoma (1) Malignant invasive salivary gland carcinoma (papillary)  
Long Beach - Synovial sarcoma (4)  
Bay Area - Spindle cell carcinoma (3)  
Santa Clara - Synovial sarcoma (6)  
Monterey (Community Hospital of Monterey Peninsula) - Mucoepidermoid carcinoma  
San Diego (Naval Medical Center) - Carcinosarcoma (6); Synovial sarcoma (4); Papillary adenocarcinoma (3)  
Santa Barbara (Cottage Hospital) - Adenocarcinoma, low grade, NOS  
Hayward/Fremont (Western Laboratories) - Metaplastic squamous carcinoma (2); Adenocarcinoma with squamous metaplasia (3)  
Mountain View (El Camino Hospital) - Synovial sarcoma  
Texas (Texas Tech Medical Hlth Ctr) - Adenocarcinoma  
Nebraska (Creighton) - Low grade nasopharyngeal papillary adenocarcinoma  
Wisconsin (Meriter Hospital) - Biphasic (glands and spindle cells) malignant neoplasm?  
Louisiana (Shreveport) - Carcinoma with pseudo-glandular changes vs. metastatic papillary carcinoma, thyroid  
Michigan (St. Joseph Mercy Hospital) - Synovial sarcoma (5)  
Ohio (Worthington) - Synovial sarcoma  
Florida (Tallahassee) - Basal cell adenocarcinoma with spindled stroma; Carcinosarcoma; Mucoepidermoid carcinoma (4)  
Maryland (Woodbine) - Carcinosarcoma (1); Squamous cell carcinoma with spindling (1)  
Maryland (National Naval Medical Center) - Adenosquamous carcinoma (8); Synovial sarcoma (4)  
Pennsylvania (Lehigh Valley Hospital) - Synovial sarcoma, biphasic (1); Terminal duct carcinoma (1) R/O synovial sarcoma vs carcinosarcoma (1); Basaloid squamous vs. adenosarcoma (1)  
Pennsylvania (LVH Pathology Associates) - Epidermoid carcinoma with “spindle cell” and “adenoid/pseudoglandular” features (vs. adenosquamous carcinoma)  
Pennsylvania (Conemaugh Memorial Hospital) - Papillary adenocarcinoma  
New Hampshire (Catholic Medical Center) - Carcinosarcoma  
New Jersey (Summit) - Synovial sarcoma (2); Carcinosarcoma (2)  
New York (Impath) - Adenosquamous carcinoma  
New York (Northport) - Synovial sarcoma  
New York (White Plains) - ?  
Canada (VGH Anatomic Pathology) - Synovial sarcoma, biphasic  
Saudi Arabia (King Khalid Univ Hospital) - Sialadenoma papilliform of pharynx  
Japan (Shimada City) - Synovial sarcoma  
Japan (Kurashiki Medical School) - Synovial sarcoma (so-called carcinosarcoma)

**Diagnosis:****Biphasic Synovial Sarcoma, Piriform Sinus\***

T22000, M90433

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

**Consultation:** Michael Hendrickson, M.D., Stanford University Hospital. “Soft tissue, pyriform sinus: synovial sarcoma.”

**References:**

Vahle W, et al. Synovial Sarcoma of the Hypopharynx. *HNO* 1986 34(7):307-309. German  
 Tillich M, et al. Synovial Sarcoma of the Parapharyngeal Space. CT and MRI. *Neuroradiology* 1998; 40(4):261-263.  
 Sigal R, et al. Synovial Sarcomas of the Head and Neck. CT and MR Findings. *AJNR AM J Neuroradiol* 1992; 13(5):1459-1462.  
 Dei Tos AP, et al. Synovial Sarcoma of the Larynx and Hypopharynx. *Ann Otol Rhinol Laryngol* 1998; 107(12):1080-1085.

Inland (Riverside/San Bernardino) - Carcinoid tumor  
Los Angeles - Glomus tumor  
Bakersfield (San Joaquin Comm Hospital) - Paraganglioma  
Ventura (Unilab) - Glomus tumor (2)  
Orange (UCI Medical Center Residents) - Glomangioma  
Santa Rosa - Cystic glomangioma (1); Glomangioma (glomus tumor ) (1);  
Long Beach - Glomangioma (4)  
Bay Area - Glomangioma (2); Glomus tumor (1); Hemangiopericytoma (1)  
Santa Clara - Paraganglioma (6)  
Monterey (Community Hospital of Monterey Peninsula) - Glomus tumor  
San Diego (Naval Medical Center) - Glomangioma (12); Hemangiopericytoma (1)  
Santa Barbara (Cottage Hospital) - Paraganglioma  
Hayward/Fremont (Western Laboratories) - Parathyroid adenoma (5)  
Mountain View (El Camino Hospital) - Glomangioma  
Texas (Texas Tech Medical Hlth Ctr) - Glomangioma  
Nebraska (Creighton) - Glomus tumor r/o carcinoid  
Wisconsin (Meriter Hospital) - Benign vascular neoplasm, probably glomangioma  
Louisiana (Shreveport) - Glomus tumor  
Michigan (St. Joseph Mercy Hospital) - Glomangioma (5)  
Ohio (Worthington) - Glomangioma  
Florida (Tallahassee) - Glomus tumor (4)  
Maryland (Woodbine) - Parathyroid adenoma (2)  
Maryland (National Naval Medical Center) - Meningioma  
Pennsylvania (Lehigh Valley Hospital) - Glomangioma (2); Paraganglioma (1); R/O glomus tumor vs. paraganglioma (1)  
Pennsylvania (LVH Pathology Associates) - Hemangiopericytoma  
Pennsylvania (Conemaugh Memorial Hospital) - Glomus tumor (1); Hemangiopericytoma (1); Hemangiopericytoma-like tumor (1); Vascular carcinoid (1)  
New Hampshire (Catholic Medical Center) -  
New Jersey (Summit) - Glomangioma (3); Glomus/paraganglioma (1)  
New York (Impath) - Pleomorphic adenoma of lung  
New York (Northport) - Glomus tumor  
New York (White Plains) - Ependymoma  
Canada (VGH Anatomic Pathology) - Glomangioma  
Saudi Arabia (King Khalid Univ Hospital) - Parathyroid adenoma  
Japan (Shimada City) - Glomus tumor  
Japan (Kurashiki Medical School) - Glomus tumor

**Diagnosis:**

**Glomus Tumor, Esophagus\***

T62000, M87110

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

**References:**

*AFIP Fascicle* #18 1995; (3<sup>rd</sup> Series), pg 159.

Rueff F, et al. [Glomus Tumor of the Esophagus] (German). *Bruns Beitr Dlin Chir* 1967; 215(1):106-110.

Inland (Riverside/San Bernardino) - Chondrosarcoma  
Los Angeles - Chondrosarcoma  
Bakersfield (San Joaquin Comm Hospital) - Extraskeletal mesenchymal chondrosarcoma  
Ventura (Unilab) - Chondrosarcoma (2)  
Orange (UCI Medical Center Residents) - Chondrosarcoma  
Santa Rosa - Chondrosarcoma (2)  
Long Beach - High grade chondrosarcoma (4)  
Bay Area - Chondrosarcoma (4)  
Santa Clara - Osteosarcoma (6)  
Monterey (Community Hospital of Monterey Peninsula) - Chondrosarcoma  
San Diego (Naval Medical Center) - High grade osteosarcoma (13)  
Santa Barbara (Cottage Hospital) - Chondrosarcoma, poorly differentiated  
Hayward/Fremont (Western Laboratories) - Chondrosarcoma (5)  
Mountain View (El Camino Hospital) - Chondrosarcoma, grade 3  
Texas (Texas Tech Medical Hlth Ctr) - Chondrosarcoma, high grade  
Nebraska (Creighton) - Chondrosarcoma  
Wisconsin (Meriter Hospital) - Chondroblastic osteosarcoma  
Louisiana (Shreveport) - Chondroblastic osteosarcoma  
Michigan (St. Joseph Mercy Hospital) - High grade chondrosarcoma (mesenchymal?) (5)  
Ohio (Worthington) - Chondrosarcoma  
Florida (Tallahassee) - Chondrosarcoma  
Maryland (Woodbine) - Chondrosarcoma (2)  
Maryland (National Naval Medical Center) - Chondrosarcoma  
Pennsylvania (Lehigh Valley Hospital) - Mesenchymal chondrosarcoma (1); Chondroblastic osteosarcoma (1); Chondrosarcoma (2)  
Pennsylvania (LVH Pathology Associates) - Complex odontoma vs “advanced” ameloblastic odontoma or odonto-ameloblastoma with destruction of bone  
Pennsylvania (Conemaugh Memorial Hospital) - Myxoid chondrosarcoma  
New Hampshire (Catholic Medical Center) - Osteosarcoma, chondroblastic type, high grade  
New Jersey (Summit) - Chondrosarcoma (4)  
New Jersey (Impath) - Mesenchymal chondrosarcoma  
New York (Northport) - Cartilage-rich (chondroblastic) osteosarcoma  
New York (White Plains) - Chondrosarcoma  
Canada (VGH Anatomic Pathology) - Osteosarcoma, chondroblastic  
Saudi Arabia (King Khalid Univ Hospital) - Chondroblastic osteosarcoma of jaw  
Japan (Shimada City) - Chondrosarcoma  
Japan (Kurashiki Medical School) - Chondrosarcoma

**Diagnosis:**

**Chondrosarcoma, Left Maxilla\***

T10170, M92403

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

**References:**

Angervall, et al. Chondrosarcoma of Soft Tissue. *Cancer* 1993; 32:507.  
Goldenberg R, et al. Chondrosarcoma of the Extraskeletal Soft Tissue. A Report of Seven Cases and Review of the Literature. *J Bone Joint Surg* 1967; 49A:1487.  
Bloch DM, et al. Mesenchymal Chondrosarcoma of the Head and Neck. *J Laryngol Otol* 1979; 93:405.