"HEAD AND NECK PATHOLOGY"

Study Cases, Subscription A

October 2002

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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**Target audience:**
Practicing pathologists and pathology residents.

**Goal:**
To acquaint the participant with the histologic features of a variety of benign and malignant neoplasms and tumor-like conditions.

**Objectives:**
The participant will be able to recognize morphologic features of a variety of benign and malignant neoplasms and tumor-like conditions and relate those processes to pertinent references in the medical literature.

**Educational methods and media:**
Review of representative glass slides with associated histories.
Feedback on consensus diagnoses from participating pathologists.
Listing of selected references from the medical literature.

**Principal faculty:**
Weldon K. Bullock, MD
Donald R. Chase, MD

**CME Credit:**
Loma Linda University School of Medicine designates this continuing medical education activity for up to 2 hours of Category I of the Physician's Recognition Award of the American Medical Association.
CME credit is offered for the subscription year only.

**Accreditation:**
Loma Linda University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians.
Contributor: Phillip C. Gordon, M.D.  
Winter Haven, FL  
Case No. 1 - October 2002

Tissue from: Left cheek  
Accession #29352

Clinical Abstract:  
A mass developed in the left cheek, near the parotid gland, of this 64-year-old male.

Gross Pathology:  
The 4.0 x 2.5 x 2.0 cm mass contained a multiloculated cystic structure filled with clotted blood.

Contributor: Anthony W. Migler, M.D.  
Camarillo, CA  
Case No. 2 - October 2002

Tissue from: Neck  
Accession #29122

Clinical Abstract:  
A 88-year-old male presented with a mass in his right neck.

Gross Pathology:  
The 5.0 x 4.5 x 3.5 cm specimen consisted of yellow adipose tissue.
Tissue from: Right parotid gland

Clinical Abstract:
After 10 years of noticing a small nodule in his right neck, this 54 year old male reported a 1 year history of slow enlargement of that mass. He denied weight loss. Physical exam showed a minimally mobile, non-tender mass at the angle of the jaw in the right neck.

Gross Pathology:
The 38 gram specimen was 7.0 x 4.5 x 4.0 and had a slightly gritty, yellow-tan lobular cut surface.

Contributor: Mary Beth Shwayder, M.D.
Pasadena, CA

Tissue from: Submandibular gland

Clinical Abstract:
This 61-year-old male had noticed an immobile, firm, tender right neck mass for over a month.

Gross Pathology:
The ovoid 4.0 x 3.0 x 2.2 cm specimen had numerous white-tan confluent nodules that formed a central mass measuring 2.2 cm in diameter.
Contributor: LLUMC Pathology Group (drc)  
Loma Linda, CA

Tissue from: Right mandibular/Parotid region

Clinical Abstract:  
Following resection of a right facial mass, this 9-year-old male developed a recurrence. Tissue from the region of the right mandible was debulked.

Gross Pathology:  
The 89 gram, 12.0 x 8.0 x 4.0 cm aggregate consisted of pink-tan soft tissue fragments with a stringy, worm-like appearance.

Contributor: Philip Robinson, M.D.  
Boynton Beach, FL

Tissue from: Left Neck

Clinical Abstract:  
A large mass was found in the left neck of this 60-year-old female.

Gross Pathology:  
The tumor was resected in three portions measuring 5.2 x 5.3 x 2.2 cm, 6.5 x 4.5 x 3.1 cm and 9.5 x 5.5 x 4.5 cm. The cut surfaces were gray to red with necrosis, dark red hemorrhage and cystic spaces.

SPECIAL STUDIES:
- Keratin: positive
- S-100: positive
- GFAP: negative
- Muscle specific actin: negative
- Synoptophysin: negative
- Thyroglobulin: negative
- Chromogranin: negative
- Mucin: positive
- Desmin: negative
Contributor: LLUMC Pathology Group (rc)  
Loma Linda, CA  

Tissue from: Right eye  
Accession #29443  

Clinical Abstract:  
An orbital mass developed at the lateral aspect of the right eye of this 48-year-old male, causing double vision and displacement of globe. A CT scan showed no bony erosion.  

Gross Pathology:  
The 2.0 x 1.5 cm specimen had a homogenous white-tan parenchyma.  

Contributor: Wilmier Talbert, M.D.  
Long Beach, CA  

Tissue from: Nasal cavity  
Accession #27740  

Clinical Abstract:  
After experiencing nasal stuffiness for a few weeks, this 26-year-old female was found to have a large intranasal mass. A CT scan showed extension into the anterior ethmoid air cells.  

Gross Pathology:  
The main tumor mass was 5.0 x 3.5 x 2.0 cm and had white-tan homogenous cut surfaces.  

SPECIAL STUDIES (Outside facility):  
S-100 negative  
Chromogranin negative  
Desmin negative  
HHF35 negative  
SMAActin negative  
CD34 positive  
Factor VIII negative  
CK-AE negative
Contributor: Farooq Ali, M.D.  
Ventura, CA

Tissue from: Nasal fossa  
Accession #28993

Clinical Abstract:  
Following a year of worsening nasal occlusion and epistaxis, this 64-year-old male was worked up for nasal polyps. A CT scan showed opacification of the right maxillary and ethmoid sinuses along with polyps in the right nasal fossa.

Gross Pathology:  
In aggregate, the multiple fragments of polypoid red and pink tissue measured 6.0 x 4.0 x 1.8 cm.

Contributor: Kenneth A. Frankel, M.D.  
Glendale, CA

Tissue from: Left parotid gland  
Accession #29348

Clinical Abstract:  
This 45-year-old male was found to have a mass in his left parotid gland.

Gross Pathology:  
The 4.3 x 3.1 x 1.9 cm well-circumscribed mass was composed of homogenous soft brown tissue.
SUGGESTED READING (General Topics from Recent Literature):


FILE DIAGNOSES

CTTR Subscription A October 2002

Case 1:
Pleomorphic adenoma ("mixed tumor") with degenerative changes, cheek
T-Y0300, M-50030

Case 2:
Pleomorphic lipoma, neck
T-Y0600, M-88500

Case 3:
Acinic cell carcinoma, parotid
T-55100, M-85501

Case 4:
Salivary duct carcinoma, submandibular gland
T-55300, M-80103

Case 5:
Myxomatous plexiform neurofibroma, region of mandible
T-10180, M-95500

Case 6:
Low grade malignant myoepithelioma (myoepithelial carcinoma), neck
T-Y0600, M-89820

Case 7:
Idiopathic orbital sclerosing inflammatory pseudotumor, right eye
T-XX010, M-03090

Case 8:
Solitary fibrous tumor, nasal cavity
T-21340, M-80001

Case 9:
Inverted Schneiderian papilloma, maxillary sinus
T-22100, M-81210

Case 10:
Warthin's tumor, parotid gland
T-55100, M-85610
Case No. 1, Accession No. 29352

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Bakersfield - Carotid body paraganglioma
Baldwin Park (Kaiser Permanente) - Pleomorphic adenoma (2); Monomorphic adenoma (1)
Bay Area - Monomorphic adenoma (cannot exclude pleomorphic areas) (3)
Daly City (Seton Medical Center) - Monomorphic adenoma
Fontana (Kaiser Permanente) - Pleomorphic adenoma
Hayward/Temont - Pleomorphic adenoma
La Mesa - Pleomorphic adenoma
Long Beach - Mixed tumor (7)
Monterey (Community Hospital of Monterey Peninsula) - Mixed tumor
Mountain View (El Camino Pathology Group) - Mixed tumor with degenerative features
Oakland (Kaiser Permanente) - Pleomorphic adenoma (4)
Orange (UCI Medical Center Residents) - Pleomorphic adenoma, cheek
Sacramento (UC Davis Medical Center) - Pleomorphic adenoma
San Diego (Naval Medical Center) - Pleomorphic adenoma
Santa Barbara (Santa Barbara Cottage Hospital) - Pleomorphic adenoma
Santa Rosa (Santa Rosa Memorial Hospital) - Mucoepidermoid tumor rule out pleomorphic adenoma (1); Pleomorphic adenoma (2)
Ventura (Unilab) - Mixed tumor (2)
Alaska (Alaska Native Medical Center) - Pleomorphic adenoma (mixed tumor) with prominent vascularity
Alaska (Anchorage) - Mixed tumor
Arizona (Phoenix Memorial Hospital) - Benign mixed tumor (pleomorphic adenoma)
Florida (Munroe Regional Center) - Myoepithelioma
Florida (Pathology Associates) - Benign mixed tumor
Florida (Winter Haven Hospital) - Mixed tumor
Indiana (Fort Wayne) - Pleomorphic adenoma, parotid
Maryland (Johns Hopkins Hospital Residents) - Pleomorphic adenoma with prominent cystic vascular spaces (1); Myoepithelioma (1)
Maryland (National Naval Medical Center) - Pleomorphic adenoma (10)
Maryland (NIH Pathology Residents) - Pleomorphic adenoma
Maryland (University of Maryland) - Monomorphic adenoma with degenerative changes
Massachusetts (Brigham and Women’s Residents/Fellows) - Pleomorphic adenoma (2)
Massachusetts (New England Medical Center Residents) - Pleomorphic adenoma
Michigan (Oakwood Hospital) - Canalicular adenoma
Michigan (St. Joseph Mercy Hospital) - Monomorphic adenoma (2); Pleomorphic adenoma (1)
Nebraska (Creighton University School of Medicine Residents) - Monomorphic adenoma
New Jersey (Overlook Hospital) - Benign mixed tumor (3)
New York (Impath) - Pleomorphic adenoma of salivary gland
New York (Long Island Jewish Medical Center) - Benign salivary gland neoplasm, favor monomorphic adenoma
New York (Nassau University Medical Center) - Cystic mixed tumor, parotid gland
New York (Stony Brook University Hospital Residents) - Basal cell adenoma (12)
New York (Westchester Medical Center) - Cystic mixed tumor
Oklahoma (Tulsia) - Pleomorphic adenoma
Pennsylvania (Allegheny General Hospital) - Pleomorphic adenoma
Pennsylvania (Memorial Medical Center) - Mucoepidermoid carcinoma
Pennsylvania (Shadyside Hospital) - Mixed tumor (pleomorphic adenoma) with hemorrhage and blood clots organizing
Puerto Rico (University of Puerto Rico) - Pleomorphic adenoma
Texas (Pronuth Services) - Low grade muco-epidermoid carcinoma (2)
Texas (Scott & White Memorial Hospital) - Pleomorphic adenoma
West Virginia (Greenbrier Valley Medical Center) - Pleomorphic adenoma
Wisconsin (Meriter Health Services) - Basal cell adenoma
Australia (North Queensland Pathology) - Pleomorphic adenoma
Hong Kong (Hong Kong Baptist Hospital) - Pleomorphic adenoma
Ireland (St. James Hospital) - Pleomorphic adenoma
Qatar (Hamad Medical Corporation) - Pleomorphic adenoma, infarction

**Case 1 - Diagnosis:**
Pleomorphic adenoma ("mixed tumor") with degenerative changes, cheek
T-Y0300, M-50030

Case 1 – References:


**Case No. 2, Accession No. 29122**

Bakersfield - Well-differentiated liposarcoma
Baldwin Park (Kaiser Permanente) - Pleomorphic lipoma (3)
Bay Area - Atypical lipoma (3)
Daly City (Seton Medical Center) - Spindle cell lipoma, pleomorphic lipoma
Fontana (Kaiser Permanente) - Atypical lipomatous tumor
Hayward/Fremont - Pleomorphic lipoma
La Mesa (Grossmont Hospital) - Pleomorphic liposarcoma
Long Beach - Well-differentiated liposarcoma (7)
Monterey (Community Hospital of Monterey Peninsula) - Atypical lipoma
Mountain View (El Camino Pathology Group) - Pleomorphic lipoma
Oakland (Kaiser Permanente) - Pleomorphic lipoma (4)
Orange (UCI Medical Center Residents) - Atypical lipomatous tumor, neck
Sacramento (UC Davis Medical Center) - Pleomorphic lipoma
San Diego (Naval Medical Center) - Atypical lipomatous tumor (10); Pleomorphic lipoma (1)
Santa Barbara (Santa Barbara Cottage Hospital) - Atypical lipomatous tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Atypical lipoma, low-grade liposarcoma (1); Well-differentiated liposarcoma (1); Pleomorphic liposarcoma (1)
Ventura (Unilab) - Atypical lipomatous tumor (2)
Alaska (Alaska Native Medical Center) - Pleomorphic lipoma
Alaska (Anchorage) - Atypical lipomatous tumor
Arizona (Phoenix Memorial Hospital) - Pleomorphic lipoma
Florida (Munroe Regional Center) - Pleomorphic lipoma
Florida (Pathology Associates) - Atypical lipoma
Florida (Winter Haven Hospital) - Atypical lipoma
Indiana (Fort Wayne) - Atypical lipoma, right neck
Maryland (Johns Hopkins Hospital Residents) - Pleomorphic lipoma if lesion is superficial, well-differentiated liposarcoma if lesion is deep (1); Pleomorphic liposarcoma (1)
Maryland (National Naval Medical Center) - Pleomorphic lipoma (10)
Maryland (NIH Pathology Residents) - Liposarcoma, well differentiated
Maryland (University of Maryland) - Well-differentiated liposarcoma
Massachusetts (Brigham and Women's Residents/Fellows) - Pleomorphic lipoma (2)
Massachusetts (New England Medical Center Residents) - Atypical lipoma
Michigan (Oakwood Hospital) - Well-differentiated liposarcoma, atypical lipoma in subcutis

**October 2002**
Michigan (St. Joseph Mercy Hospital) - Pleomorphic lipoma
Nebraska (Creighton University School of Medicine Residents) - Atypical lipomatous tumor
New Jersey (Overlook Hospital) - Lipoma (1); Pleomorphic lipoma (1); Atypical lipoma (1)
New York (Impath) - Atypical lipoma
New York (Long Island Jewish Medical Center) - Atypical lipoma, well-differentiated liposarcoma
New York (Nassau University Medical Center) - Liposarcoma, neck
New York (Stony Brook University Hospital Residents) - Atypical lipoma, well-differentiated liposarcoma (12)
New York (Westchester Medical Center) - Atypical lipomatous tumor
Oklahoma (Tulsa) - Atypical pleomorphic lipoma
Pennsylvania (Allegheny General Hospital) - Pleomorphic lipoma
Pennsylvania (Memorial Medical Center) - Pleomorphic liposarcoma
Puerto Rico (University of Puerto Rico) - Well-differentiated liposarcoma/pleomorphic lipoma
Texas (Propath Services) - Pleomorphic lipoma (2)
Texas (Scott & White Memorial Hospital) - Pleomorphic lipoma
West Virginia (Greenbrier Valley Medical Center) - Atypical lipoma
Wisconsin (Meriter Health Services) - Pleomorphic lipoma vs. well-differentiated (lipoma-like) liposarcoma
Australia (North Queensland Pathology) - Atypical lipomatous tumour
Hong Kong (Hong Kong Baptist Hospital) - Pleomorphic lipoma
Ireland (St. James Hospital) - Pleomorphic lipoma
Qatar (Hamad Medical Corporation) - Atypical lipomatous tumor

Case 2 - Diagnosis:

Pleomorphic lipoma, neck

Director’s Note: Inadvertently omitted from the history was mention of CD34 positivity, and a superficial location (der)

T-Y0600, M-88500

Case 2 - References:

Case No. 3, Accession No. 29108

October 2002

Bakersfield - Acinic cell carcinoma
Baldwin Park (Kaiser Permanente) - Metastatic lymphoepithelial carcinoma (1); Metastatic carcinoma (adenocarcinoma) vs. lymphoepithelial carcinoma (1); Lymphoepithelial carcinoma ? metastatic (1)
Bay Area - Lymphoepithelial carcinoma (3)
Daly City (Seton Medical Center) - Polymorphous low grade carcinoma; acinic cell with benign lymphoid stroma
Fontana (Kaiser Permanente) - Poorly differentiated adenocarcinoma
Hayward/Fremont - Lymphoepithelioma-like carcinoma
La Mesa (Grossmont Hospital) - Mucoepidermoid carcinoma, high grade, with lymphoid infiltrate
Long Beach - Lymphoepithelioma-like carcinoma (5); Mucoepidermoid carcinoma (2)
Monterey (Community Hospital of Monterey Peninsula) - Lymphoepithelial carcinoma
Mountain View (El Camino Pathology Group) - Lymphoepithelioma-like carcinoma
Oakland (Kaiser Permanente) - Acinic cell carcinoma (1); Adenocarcinoma, NOS (3)
Orange (UCI Medical Center Residents) - Lymphoepithelial-like carcinoma, parotid gland
Sacramento (UC Davis Medical Center) - Malignant lymphoepithelial lesion
San Diego (Naval Medical Center) - Lymphoepithelial carcinoma (5); Sebaceous lymphadenocarcinoma (5); Poorly differentiated adenocarcinoma (1)
Santa Barbara (Santa Barbara Cottage Hospital) - Poorly differentiated carcinoma, nasopharyngeal type
Santa Rosa (Santa Rosa Memorial Hospital) - Mucoepidermoid carcinoma (3)
Ventura (Unilab) - Poorly differentiated adenocarcinoma in intraparotid lymph node (2)
Alaska (Alaska Native Medical Center) - Malignant lymphoepithelial lesion, malignant lymphoepithelioma, lymphoepithelial carcinoma
Alaska (Anchorage) - Benign lymphoepithelial lesion
Arizona (Phoenix Memorial Hospital) - Carcinoma ex-pleomorphic adenoma
Florida (Monroe Regional Center) - Lymphoepithelial carcinoma
Florida (Pathology Associates) - Mucoepidermoid carcinoma
Florida (Winter Haven Hospital) - Undifferentiated carcinoma ex lymphoepithelial lesion
Indiana (Fort Wayne) - Lymphoepithelial carcinoma, parotid
Maryland (Johns Hopkins Hospital Residents) - Lymphoepithelial carcinoma, malignant lymphoepithelial lesion vs. metastatic nasopharyngeal carcinoma (1); Acinic cell adenocarcinoma (1)
Maryland (National Naval Medical Center) - Poorly differentiated carcinoma with features of lymphoepithelial-like carcinoma (9); Carcinoma, ex pleomorphic adenoma (2)
Maryland (NIH Pathology Residents) - Undifferentiated nasopharyngeal carcinoma, lymphoepithelial carcinoma
Maryland (University of Maryland) - Acinic cell carcinoma (it could be derived from pleomorphic adenoma)
Massachusetts (Brigham and Women's Residents/Fellows) - Acinic cell carcinoma (2)
Massachusetts (New England Medical Center Residents) - Acinic cell carcinoma, favorable prognosis variant
Michigan (Oakwood Hospital) - Acinic cell carcinoma
Michigan (St. Joseph Mercy Hospital) - Acinic cell carcinoma
Nebraska (Creighton University School of Medicine Residents) - Acinic cell adenocarcinoma
New Jersey (Overlook Hospital) - Acinic cell tumor (1); Oncocytoma (1); Polymorphous low grade carcinoma (1)
New York (Impath) - Lymphoepithelioma-like carcinoma of salivary gland
New York (Long Island Jewish Medical Center) - Carcinoma arising from benign lymphoepithelial lesion
New York (Nassau University Medical Center) - Lymphoepithelial carcinoma, parotid gland
New York (Stony Brook University Hospital Residents) - Acinic cell carcinoma "favorable prognosis" variant (12)
New York (Westchester Medical Center) - Lymphoepithelial carcinoma
Oklahoma (Tulsa) - Acinic cell adenocarcinoma with lymphoid stroma
Pennsylvania (Allegheny General Hospital) - Adenocarcinoma
Pennsylvania (Memorial Medical Center) - Lymphoepithelial carcinoma
Pennsylvania (Shadyside Hospital) - Acinic cell adenocarcinoma
Puerto Rico (University of Puerto Rico) - Malignant lymphoepithelial lesion
Texas (Propath Services) - Acinic cell carcinoma (2)
Texas (Scott & White Memorial Hospital) - Mucoepidermoid carcinoma
West Virginia (Greensbrier Valley Medical Center) - Lymphoepithelial carcinoma
Wisconsin (Meriter Health Service) - Non-keratinizing squamous cell carcinoma, lymphoepithelioma
Australia (North Queensland Pathology) - Lymphoepithelial carcinoma
Hong Kong (Hong Kong Baptist Hospital) - Malignant lymphoepithelioma
Ireland (St. James Hospital) - Mucoepidermoid carcinoma, exclude acinic cell carcinoma
Qatar (Hamad Medical Corporation) - Mucoepidermoid carcinoma

Case 3 - Diagnosis:

Acinic Cell Carcinoma, parotid
T-55100, M-b5501

Consultation: Mia Perez, M.D. Loma Linda, "Acinic cell carcinoma."

Case 3 - References:

Case No. 4, Accession No. 29106

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<tr>
<th>Location</th>
<th>Tissue Type</th>
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<td>Salivary intraductal carcinoma</td>
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<tr>
<td>Baldwin Park (Kaiser Permanente)</td>
<td>Salivary duct carcinoma (3)</td>
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<tr>
<td>Bay Area</td>
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<td>Salivary duct carcinoma</td>
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<tr>
<td>La Mesa (Grossmont Hospital)</td>
<td>Salivary duct carcinoma</td>
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<td>Long Beach</td>
<td>Salivary duct carcinoma (7)</td>
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<td>Monterey (Community Hospital of Monterey Peninsula)</td>
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<td>Mountain View (El Camino Pathology Group)</td>
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<td>Salivary gland duct carcinoma (4)</td>
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<td>Orange (UCI Medical Center Residents)</td>
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<td>Santa Rosa (Santa Rosa Memorial Hospital)</td>
<td>Salivary duct carcinoma, comedo carcinoma (2); Salivary duct carcinoma (1)</td>
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<td>Ventura (Unilab)</td>
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<td>Cribriform ductal adenocarcinoma (2); Mucoepidermoid carcinoma (1)</td>
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<td>New York (Long Island Jewish Medical Center)</td>
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<td>New York (Nassau University Medical Center)</td>
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<tr>
<td>Pennsylvania (Allegheny General Hospital)</td>
<td>Ductal carcinoma</td>
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October 2002
Pennsylvania (Memorial Medical Center) - Salivary duct carcinoma
Pennsylvania (Shadyside Hospital) - Salivary duct carcinoma
Puerto Rico (University of Puerto Rico) - Salivary duct carcinoma
Texas (Propath Services) - High grade muco-epidermoid carcinoma (2)
Texas (Scott & White Memorial Hospital) - Salivary duct carcinoma
West Virginia (Greenbrier Valley Medical Center) - Basaloid squamous cell carcinoma
Wisconsin (Meriter Health Services) - Infiltrating salivary duct carcinoma with cribriform pattern
Australia (North Queensland Pathology) - Intraduct and ? early invasive salivary duct carcinoma
Hong Kong (Hong Kong Baptist Hospital) - Carcinoma with comedo necrosis
Ireland (St. James Hospital) - Salivary duct carcinoma
Qatar (Hamad Medical Corporation) - Salivary duct carcinoma

Case 4 - Diagnosis:
Salivary duct carcinoma, submandibular gland
T-55300, M-80103

Case 4 - References:

Case No. 5, Accession No. 29438

Bakersfield - Neurofibroma
Baldwin Park (Kaiser Permanente) - Plexiform neurofibroma (3)
Bay Area - Plexiform neurofibroma, possibly within a hamartoma (3)
Daly City (Seton Medical Center) - Plexiform neurofibroma
Fontana (Kaiser Permanente) - Plexiform neurofibroma
Hayward/Fremont - Plexiform neurofibroma
La Mesa (Grossmont Hospital) - Plexiform neurofibroma
Long Beach - Plexiform neurofibroma (7)
Monterey (Community Hospital of Monterey Peninsula) - Plexiform neurofibroma
Mountain View (El Camino Pathology Group) - Plexiform neurofibroma
Oakland (Kaiser Permanente) - Plexiform neurofibroma (4)
Orange (UCI Medical Center Residents) - Plexiform neurofibroma, right mandibular, parotid region
Sacramento (UC Davis Medical Center) - Plexiform neurofibroma
San Diego (Naval Medical Center) - Plexiform neurofibroma
Santa Barbara (Santa Barbara Cottage Hospital) - Plexiform neurofibroma
Santa Rosa (Santa Rosa Memorial Hospital) - Plexiform neurofibroma rule out low-grade neurofibrosarcoma (1); Plexiform neurofibroma (2)
Ventura (Unilab) - Amputation neuroma (2)
Alaska (Alaska Native Medical Center) - Plexiform neurofibroma
Alaska (Anchorage) - Myxoid nerve sheath tumor
Arizona (Phoenix Memorial Hospital) - Plexiform neurofibroma with myxoid degeneration
Florida (Munroe Regional Center) - Neurofibroma
Florida (Pathology Associates) - Plexiform neurofibroma

CTTR, October 2002 “Minutes” (Subscription A)
Florida (Winter Haven Hospital) - Plexiform neurofibroma
Indiana (Fort Wayne) - Plexiform neurofibroma with myxoid degeneration
Maryland (Johns Hopkins Hospital Residents) - Plexiform neurofibroma, patient likely has neurofibromatosis (1); Plexiform neurofibroma (1)
Maryland (National Naval Medical Center) - Plexiform neurofibroma (11)
Maryland (NIH Pathology Residents) - Plexiform neurofibroma
Maryland (University of Maryland) - Plexiform neurofibroma
Massachusetts (Brigham and Women’s Residents/Fellows) - Plexiform neurofibroma (2)
Massachusetts (New England Medical Center Residents) - Plexiform neurofibroma
Michigan (Oakwood Hospital) - Plexiform neurofibroma
Michigan (St. Joseph Mercy Hospital) - Plexiform neurofibroma
Nebraska (Creighton University School of Medicine Residents) - Plexiform neurofibromatosis
New Jersey (Overlook Hospital) - Plexiform neurofibroma (3); With focal goblet cells (1)
New York (Impath) - Plexiform neurofibroma of salivary gland
New York (Long Island Jewish Medical Center) - Neurofibroma, plexiform type
New York (Nassau University Medical Center) - Nerve sheath myxoma, right mandibular, parotid region
New York (Stony Brook University Hospital Residents) - Plexiform neurofibroma, recurrent (12)
New York (Westchester Medical Center) - Plexiform neurofibroma
Oklahoma (Tulsa) - Plexiform neurofibroma
Pennsylvania (Allegheny General Hospital) - Plexiform neurofibroma
Pennsylvania (Memorial Medical Center) - Plexiform neurofibroma
Pennsylvania (Shadyside Hospital) - Plexiform neurofibroma
Puerto Rico (University of Puerto Rico) - Plexiform neurofibroma
Texas (Propath Services) - Plexiform neurofibroma (1); Plexiform neurofibroma (Von Recklinghausen’s) (1)
Texas (Scott & White Memorial Hospital) - Plexiform neurofibroma
West Virginia (Greenbrier Valley Medical Center) - Necrotizing sialometaplasia
Wisconsin (Meriter Health Services) - Plexiform neurofibroma
Australia (North Queensland Pathology) - Myxoid neurofibroma
Hong Kong (Hong Kong Baptist Hospital) - Plexiform neurofibroma
Ireland (St. James Hospital) - Plexiform neurofibroma
Qatar (Hamad Medical Corporation) - Plexiform neurofibroma

Case 5 - Diagnosis:
Myxomatous plexiform neurofibroma, region of mandible
T-10180, M-95500

Case 5 - References:

Case No. 6, Accession No. 29544

Bakersfield - Malignant mixed tumor
Baldwin Park (Kaiser Permanente) - Mucoepidermoid carcinoma (1); Chordoma (1); Low grade mucoepidermoid carcinoma (1)
Bay Area - Mucoepidermoid carcinoma (2); Adenocarcinoma, NOS, possibly epithelial-myoepithelial or ex-pleomorphic (1)
Fontana (Kaiser Permanente) - Epithelial myoepithelial carcinoma

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Hayward/Fremont - Mucoepidermoid carcinoma, low grade
La Mesa (Grossmont Hospital) - Cystadenocarcinoma
Long Beach - Mixed tumor, predominantly myoepithelial (7)
Monterey (Community Hospital of Monterey Peninsula) - Myoepithelioma
Mountain View (El Camino Pathology Group) - Monomorphic adenoma
Oakland (Kaiser Permanente) - Pleomorphic adenoma (2); Malignant mixed tumor (1)
Orange (UCI Medical Center Residents) - Mucoepidermoid carcinoma, neck
Sacramento (UC Davis Medical Center) - Mucoepidermoid carcinoma
San Diego (Naval Medical Center) - Mucoepidermoid carcinoma (5); Pleomorphic adenoma (5); Acinic cell carcinoma (1)
Santa Barbara (Santa Barbara Cottage Hospital) - Mucoepidermoid carcinoma, poorly differentiated
Santa Rosa (Santa Rosa Memorial Hospital) - Mucoepidermoid carcinoma (2); Myoepithelial carcinoma (1)
Ventura (Unilab) - Mucoepidermoid carcinoma (2)
Alaska (Alaska Native Medical Center) - Polymorphous low grade adenocarcinoma
Alaska (Anchorage) - Pleomorphic adenoma
Arizona (Phoenix Memorial Hospital) - Mucoepidermoid carcinoma
Florida (Monroe Regional Center) - Myoepithelioma
Florida (Pathology Associates) - Myoepithelioma
Florida (Winter Haven Hospital) - Mixed tumor
Indiana (Fort Wayne) - Adenocarcinoma, left neck
Maryland (Johns Hopkins Hospital Residents) - Mucoepidermoid carcinoma (1); Chordoma (1)
Maryland (National Naval Medical Center) - Acinic cell carcinoma (7); Adenosquamous carcinoma (2); Mucoepidermoid carcinoma (2); Carcinoma, NOS (1)
Maryland (NIH Pathology Residents) - Mucoepidermoid carcinoma, low grade
Maryland (University of Maryland) - Adenomyoepithelioma
Massachusetts (Brigham and Women’s Residents/Fellows) - Myoepithelioma (2)
Massachusetts (New England Medical Center Residents) - Adenocarcinoma with myoepithelial differentiation
Michigan (Oakwood Hospital) - Mucoepidermoid carcinoma, low grade
Michigan (St. Joseph Mercy Hospital) - Mucoepidermoid carcinoma
Nebraska (Creighton University School of Medicine Residents) - Mucoepidermoid carcinoma
New Jersey (Overlook Hospital) - Benign mixed tumor (2); Consistent with epidermoid metaplasia (1); ? myoepithelioma (1)
New York (Impath) - Myoepithelioma (of salivary gland)
New York (Long Island Jewish Medical Center) - Myoepithelial neoplasm, uncertain malignant potential
New York (Nassau University Medical Center) - Mucoepidermoid carcinoma, left neck
New York (Stony Brook University Hospital Residents) - Mucoepidermoid carcinoma, intermediate grade (12)
New York (Westchester Medical Center) - Adenocarcinoma, NOS vs. acinic cell carcinoma
Oklahoma (Tulsa) - Pleomorphic adenoma
Pennsylvania (Allegheny General Hospital) - Acinic cell carcinoma
Pennsylvania (Memorial Medical Center) - Polymorphous low grade adenocarcinoma
Pennsylvania (Shadyside Hospital) - Low grade adenocarcinoma, NOS
Puerto Rico (University of Puerto Rico) - Mucoepidermoid carcinoma
Texas (Propath Services) - Mucoepidermoid carcinoma (1) Mucoepidermoid carcinoma high grade (1)
Texas (Scott & White Memorial Hospital) - Cellular mixed tumor
West Virginia (Greenbrier Valley Medical Center) - Synovial sarcoma
Wisconsin (Meriter Health Services) - Myoepithelioma
Australia (North Queensland Pathology) - Mucoepidermoid carcinoma; Diff Dx: Polymorphous low grade adenocarcinoma
Hong Kong (Hong Kong Baptist Hospital) - Mucoepidermoid carcinoma
Ireland (St. James Hospital) - Mucoepidermoid carcinoma
Qatar (Hamad Medical Corporation) - Pleomorphic adenoma

Case 6 - Diagnosis:
Low grade malignant myoepithelioma (myoepithelial carcinoma), neck
T-Y06000, M-89820

Consultation: Mia Perez M.D., Loma Linda, “Low grade malignant myoepithelioma.”
Case 6 - References:

Case No. 7, Accession No. 29443

October 2002

Bakersfield - Inflammatory pseudotumor vs. dermoid fibromatosis
Baldwin Park (Kaiser Permanente) - Inflammatory pseudotumor (3)
Bay Area - Adenocarcinoma of the lacrimal gland (3)
Daly City (Seton Medical Center) - Inflammatory pseudotumor doubt amyloid
Fontana (Kaiser Permanente) - Inflammatory pseudotumor
Hayward/Fremont - Hairy cell leukemia (1); Pseudotumor (1); Myeloma (1)
La Mesa (Grossmont Hospital) - Inflammatory pseudotumor (would also do amyloid stain to rule out that possibility)
Long Beach - Inflammatory pseudotumor (7)
Monterey (Community Hospital of Monterey Peninsula) - Eccrine carcinoma (1); Plasmacytoid MAL Toma with amyloid (1)
Mountain View (El Camino Pathology Group) - Inflammatory pseudotumor
Oakland (Kaiser Permanente) - Amyloid (3); Orbital pseudotumor (1)
Orange (UCI Medical Center Residents) - Inflammatory pseudotumor, sclerosing type, eye
Sacramento (UC Davis Medical Center) - Inflammatory pseudotumor (5); Lymphoma (5)
San Diego (Naval Medical Center) - Inflammatory pseudotumor
Santa Barbara (Santa Barbara Cottage Hospital) - Idiopathic orbital inflammatory (pseudotumor)
Santa Rosa (Santa Rosa Memorial Hospital) - Plasma cell dyscrasia with amyloid (1); Orbital inflammatory pseudotumor (1); Inflammatory pseudotumor of orbit (1)
Ventura (Unilab) - Inflammatory pseudotumor (2)
Alaska (Alaska Native Medical Center) - Inflammatory pseudotumor
Alaska (Anchorage) - Amyloid node
Arizona (Phoenix Memorial Hospital) - Sclerosing large cell lymphoma
Florida (Munroe Regional Center) - Inflammatory pseudotumor
Florida (Pathology Associates) - Inflammatory pseudotumor
Florida (Winter Haven Hospital) - Idiopathic sclerosing inflammatory orbital pseudotumor
Indiana (Fort Wayne) - Fibrous pseudotumor, right orbit
Maryland (Johns Hopkins Hospital Residents) - Inflammatory pseudotumor, rule out Grave’s disease (1); Orbital pseudotumor (1)
Maryland (National Naval Medical Center) - Inflammatory pseudotumor (11)
Maryland (NIH Pathology Residents) - Favor plasmacytoma, rule out multiple myeloma
Maryland (University of Maryland) - Idiopathic orbital inflammation, inflammatory pseudotumor
Massachusetts (Brigham and Women’s Residents/Fellows) - Inflammatory pseudotumor, spectrum of IMT? (1); Inflammatory pseudotumor (1)
Massachusetts (New England Medical Center Residents) - Inflammatory pseudotumor
Michigan (Oakwood Hospital) - Inflammatory pseudotumor
Michigan (St. Joseph Mercy Hospital) - Inflammatory myofibroblastic pseudotumor
Nebraska (Creighton University School of Medicine Residents) - Marginal cell lymphoma
New Jersey (Overlook Hospital) - Inflammatory pseudotumor (2); Sjogren’s syndrome (1)
New York (Impath) - Inflammatory pseudotumor of orbit
New York (Long Island Jewish Medical Center) - Sclerosing idiopathic orbit inflammation, pseudotumor
New York (Nassau University Medical Center) - Hyalinized angiofibroma, right eye

CTTR, October 2002 “Minutes” (Subscription A)
New York (Stony Brook University Hospital Residents) - Idiopathic sclerosing inflammation of the orbit (12)
New York (Westchester Medical Center) - Inflammatory pseudotumor vs. low grade MALT lymphoma
Oklahoma (Tulsa) - Pseudotumor, idiopathic orbital inflammation
Pennsylvania (Allegeny General Hospital) - Inflammatory pseudotumor, inflammatory myofibroblastic tumor
Pennsylvania (Memorial Medical Center) - Orbital pseudotumor
Pennsylvania (Shadyide Hospital) - Angiofollicular hyperplasia (Castleman's disease)
Puerto Rico (University of Puerto Rico) - Inflammatory pseudotumor
Texas (Propath Services) - Lymphoepithelioma (1); Malignant lymphoepithelial lesion (1)
Texas (Scott & White Memorial Hospital) - Inflammatory pseudotumor
West Virginia (Greenbrier Valley Medical Center) - Orbital inflammatory pseudotumor
Wisconsin (Meriter Health Services) - Inflammatory pseudotumor of orbit
Australia (North Queensland Pathology) - Inflammatory pseudotumor of orbit
Hong Kong (Hong Kong Baptist Hospital) - Solitary fibrous tumor of orbit
Ireland (St. James Hospital) - Inflammatory pseudotumor (consider Castleman's lymphoma)
Qatar (Hamad Medical Corporation) - Inflammatory pseudotumor

Case 7 - Diagnosis:
Idiopathic orbital sclerosing inflammatory pseudotumor, right eye
T-XX010, M-03090

Case 7 - References:

Case No. 8, Accession No. 27740

Bakersfield - Hemangiopericytoma
Baldwin Park (Kaiser Permanente) - Solitary fibrous tumor (3)
Bay Area - Solitary fibrous tumor (3)
Daly City (Seton Medical Center) - Solitary fibrous tumor
Fontana (Kaiser Permanente) - Solitary fibrous tumor
Hayward/Fremont - Solitary fibrous tumor
La Mesa (Grossmont Hospital) - Solitary fibrous tumor
Long Beach - Solitary fibrous tumor (7)
Monterey (Community Hospital of Monterey Peninsula) - Solitary fibrous tumor
Mountain View (El Camino Pathology Group) - Solitary fibrous tumor
Oakland (Kaiser Permanente) - Solitary fibrous tumor (4)
Orange (UCI Medical Center Residents) - Solitary fibrous tumor, nasal cavity
Sacramento (UC Davis Medical Center) - Hemangiopericytoma (5); Solitary fibrous tumor (5)
San Diego (Naval Medical Center) - Solitary fibrous tumor
Santa Barbara (Santa Barbara Cottage Hospital) - Solitary fibrous tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Hemangioendothelioma (2); Hemangiopericytoma-like tumor of nasal passages (1)
Ventura (Unilab) - Sinonasal hemangiopericytoma (2)
Alaska (Alaska Native Medical Center) - Kaposi's sarcoma
Alaska (Anchorage) - Solitary fibrous tumor
Arizona (Phoenix Memorial Hospital) - Solitary fibrous tumor
Florida (Munroe Regional Center) - Hemangiopericytoma

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Florida (Pathology Associates) - Solitary fibroma
Florida (Winter Haven Hospital) - Synovial sarcoma
Indiana (Fort Wayne) - Solitary fibrous tumor, nasal cavity
Maryland (Johns Hopkins Hospital Residents) - Favor sinonasal hemangiopericytoma vs. solitary fibrous tumor, this distinction may be somewhat artificial (1); Solitary fibrous tumor (1)
Maryland (National Naval Medical Center) - Solitary fibrous tumor (8); Hemangiopericytoma (4)
Maryland (NIH Pathology Residents) - Hemangiopericytoma
Maryland (University of Maryland) - Solitary fibrous tumor
Massachusetts (Brigham and Women's Residents/Fellows) - Solitary fibrous tumor (2)
Massachusetts (New England Medical Center Residents) - Hemangiopericytoma
Michigan (Oakwood Hospital) - Solitary fibrous tumor
Michigan (St. Joseph Mercy Hospital) - Solitary fibrous tumor
Nebraska (Creighton University School of Medicine Residents) - Kaposi's sarcoma
New Jersey (Overlook Hospital) - Solitary fibrous tumor
New York (Impath) - Solitary fibrous tumor
New York (Long Island Jewish Medical Center) - Solitary fibrous tumor
New York (Nassau University Medical Center) - Hemangiopericytoma, nasal cavity
New York (Stony Brook University Hospital Residents) - Solitary fibrous tumor
New York (Westchester Medical Center) - Solitary fibrous tumor
Oklahoma (Tulsa) - Solitary fibrous tumor
Pennsylvania (Allegheny General Hospital) - Solitary fibrous tumor
Pennsylvania (Memorial Medical Center) - Solitary fibrous tumor
Pennsylvania (Shadyside Hospital) - Solitary fibrous tumor
Puerto Rico (University of Puerto Rico) - Solitary fibrous tumor
Texas (Propath Services) - Hemangiopericytoma (1); Kaposi's hemangiopericytoma (1)
Texas (Scott & White Memorial Hospital) - Solitary fibrous tumor
West Virginia (Greenbrier Valley Medical Center) - Neurilemmoma
Wisconsin (Meriter Health Services) - Solitary fibrous tumor
Australia (North Queensland Pathology) - Solitary fibrous tumor
Hong Kong (Hong Kong Baptist Hospital) - Angiofibroma
Ireland (St. James Hospital) - Solitary fibrous tumor
Qatar (Hamad Medical Corporation) - Hemangiopericytoma, spindle cell variant

Case 8 - Diagnosis:
Solitary fibrous tumor, nasal cavity
T-21340, M-80001

Case 8 - References:

Case No. 9, Accession No. 28993

Bakersfield - Cylindrical cell carcinoma
Baldwin Park (Kaiser Permanente) - Inverted squamous papilloma (1); Schneiderian (inverted) papilloma (2)
Bay Area - Inverted papilloma (3)
Daly City (Seton Medical Center) - Squamous cell carcinoma in-situ
Fontana (Kaiser Permanente) - Inverted papilloma

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Inverted sinonasal papilloma

La Mesa (Grossmont Hospital) - Inverted papilloma
Long Beach - Inverted papilloma with focal dysplasia (7)
Monterey (Community Hospital of Monterey Peninsula) - Inverted papilloma
Mountain View (El Camino Pathology Group) - Papillary squamous cell carcinoma vs. Schneiderian papilloma with dysplasia
Oakland (Kaiser Permanente) - Inverted Schneiderian squamous papilloma (3) With dysplasia (1)
Orange (UCI Medical Center Residents) - Inverted papilloma, nasal fossa
Sacramento (UC Davis Medical Center) - Inverted papilloma with focal areas of suspicious invasion
San Diego (Naval Medical Center) - Inverted Schneiderian papilloma
Santa Barbara (Santa Barbara Cottage Hospital) - Inverted nasal papilloma
Santa Rosa (Santa Rosa Memorial Hospital) - Inverting papilloma (1); Inverting sinonasal papilloma (2)
Ventura (Unilab) - Inverted Schneiderian papilloma (2)
Alaska (Alaska Native Medical Center) - Inverted Schneiderian papilloma with dysplasia
Alaska (Anchorage) - Papillary squamous cell carcinoma
Arizona (Phoenix Memorial Hospital) - Squamous carcinoma in-situ in squamous papilloma
Florida (Munroe Regional Center) - Inverted papilloma with malignant transformation
Florida (Pathology Associates) - Inverted papilloma with moderate dysplasia
Florida (Winter Haven Hospital) - Squamous cell carcinoma in-situ
Indiana (Fort Wayne) - Inverted papilloma, nasal fossa
Maryland (Johns Hopkins Hospital Residents) - Schneiderian papilloma, inverted type with carcinoma in-situ (1); Inverted papilloma (1)
Maryland (National Naval Medical Center) - Inverted papilloma (8); Transitional carcinoma (2); Carcinoma arising in inverted papilloma (2)
Maryland (NIH Pathology Residents) - Inverted papilloma
Maryland (University of Maryland) - Papilloma with squamous cell carcinoma in-situ
Massachusetts (Brigham and Women's Residents/Fellows) - Inverted Schneiderian papilloma (1); Inverted papilloma with dysplasia (1)
Massachusetts (New England Medical Center Residents) - Schneiderian papilloma, inverted
Michigan (Oakwood Hospital) - Inverted papilloma
Michigan (St. Joseph Mercy Hospital) - Papillary squamous carcinoma
Nebraska (Creighton University School of Medicine Residents) - Schneiderian papilloma
New Jersey (Overlook Hospital) - Schneiderian (inverted) papilloma (3) Consistent with squamous cell carcinoma in-situ (1)
New York (Impath) - Inverted Schneiderian papilloma
New York (Long Island Jewish Medical Center) - Inverted papilloma
New York (Nassau University Medical Center) - Carcinoma of the sinonasal tract, nasal fossa
New York (Stony Brook University Hospital Residents) - Inverted sinonasal papilloma with severe dysplasia
New York (Westchester Medical Center) - Inverted papilloma consistent with dysplasia and CIS
Oklahoma (Tulsa) - Inverted Schneiderian papilloma
Pennsylvania (Allegheny General Hospital) - Papillary carcinoma
Pennsylvania (Memorial Medical Center) - Papillary carcinoma, nasal fossa
Pennsylvania (Shadyside Hospital) - Inverted papilloma with focal ulceration
Puerto Rico (University of Puerto Rico) - Inverted papilloma
Texas (Propath Services) - Invasive squamous cell carcinoma (1) Invasive squamous carcinoma with papillomatous pattern (1)
Texas (Scott & White Memorial Hospital) - Carcinoma arising in a Schneiderian papilloma
West Virginia (Greenbrier Valley Medical Center) - Schneiderian papilloma
Wisconsin (Meriter Health Services) - Inverted papilloma with atypia
Australia (North Queensland Pathology) - Inverted Schneiderian papilloma
Hong Kong (Hong Kong Baptist Hospital) - Sinonasal papilloma with atypia
Ireland (St. James Hospital) - Nasal inverted papilloma
Qatar (Hamad Medical Corporation) - Inverted papilloma

Case 9 - Diagnosis:
Inverted Schneiderian papilloma, maxillary sinus
T-22100, M-81210
Case No. 10, Accession No. 29348 October 2002

Bakersfield - Warthin’s tumor
Baldwin Park (Kaiser Permanente) - Warthin’s tumor (3)
Bay Area - Cystic oncocytoma with a lymphoid infiltrate (Warthin-like) (2); Oncocytoid variant of Warthin’s tumor (1)
Daly City (Seton Medical Center) - Warthin’s tumor
Fontana (Kaiser Permanente) - Warthin’s tumor
Hayward/Fremont - Warthin’s tumor
La Mesa (Grossmont Hospital) - Oncocytoma with lymphoid infiltrate
Long Beach - Warthin’s tumor (solid variant) (7)
Monterey (Community Hospital of Monterey Peninsula) - Warthin’s tumor
Mountain View (El Camino Pathology Group) - Warthin’s tumor
Oakland (Kaiser Permanente) - Warthin’s tumor (4)
Orange (UCI Medical Center Residents) - Warthin’s tumor
Sacramento (UC Davis Medical Center) - Warthin’s tumor (5); Oncocytoma (5)
San Diego (Naval Medical Center) - Warthin’s tumor
Santa Barbara (Santa Barbara Cottage Hospital) - Warthin’s tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Warthin’s tumor (3)
Ventura (Unilab) - Oncocytoma with tumor-associated lymphoid proliferation (2)
Alaska (Alaska Native Medical Center) - Warthin’s tumor
Alaska (Anchorage) - Warthin’s tumor
Arizona (Phoenix Memorial Hospital) - Warthin’s tumor
Florida (Munroe Regional Center) - Warthin’s tumor
Florida (Pathology Associates) - Warthin’s tumor, oncocytoma
Florida (Winter Haven Hospital) - Oncocytoma
Indiana (Fort Wayne) - Warthin’s tumor, parotid
Maryland (Johns Hopkins Hospital Residents) - Warthin’s tumor (2)
Maryland (National Naval Medical Center) - Warthin’s tumor (9); Oncocytoma (2)
Maryland (NIH Pathology Residents) - Warthin’s tumor
Maryland (University of Maryland) - Warthin’s tumor
Massachusetts (Brigham and Women’s Residents/Fellows) - ? variant of Warthin’s tumor (1); Oncocytic adenoma/variant of Warthin’s tumor (1)
Massachusetts (New England Medical Center Residents) - Warthin’s tumor
Michigan (Oakwood Hospital) - Oncocytoma
Michigan (St. Joseph Mercy Hospital) - Warthin’s tumor
Nebraska (Creighton University School of Medicine Residents) - Oncocytoma
New Jersey (Overlook Hospital) - Warthin’s tumor
New York (Impath) - Warthin’s tumor
New York (Long Island Jewish Medical Center) - Warthin’s tumor
New York (Nassau University Medical Center) - Oncocytoma, left parotid gland

Case 9 - References:
New York (Stony Brook University Hospital Residents) - Warthin’s tumor
New York (Westchester Medical Center) - Oncocytoma with lymphoid stroma/Warthin’s tumor
Oklahoma (Tulsa) - Warthin’s tumor
Pennsylvania (Allegheny General Hospital) - Warthin’s tumor
Pennsylvania (Memorial Medical Center) - Warthin’s tumor
Pennsylvania (Shadyside Hospital) - Oncocytoma with reactive lymphoid hyperplasia
Puerto Rico (University of Puerto Rico) - Warthin’s tumor
Texas (Propath Services) - Warthin’s tumor (2)
Texas (Scott & White Memorial Hospital) - Oncocytoma
West Virginia (Greenbrier Valley Medical Center) - Oncocytoma
Wisconsin (Meriter Health Services) - Oncocytoma involving lymph node vs. Warthin’s tumor
Australia (North Queensland Pathology) - Warthin’s tumor, stroma poor type
Hong Kong (Hong Kong Baptist Hospital) - Warthin’s tumor
Ireland (St. James Hospital) - Warthin’s tumor
Qatar (Hamad Medical Corporation) - Warthin’s tumor

Case 10 - Diagnosis:
Warthin’s tumor, parotid gland
T-55100, M-85610

Case 10 - References: