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"Tumors and Lesions of Salivary Glands"

Case 1:

A 10-year-old girl had two nodules involving the orbital conjunctiva. One was 0.9 cm and the other 0.6 cm. The case was sent for consultation from a Kenyan missionary hospital.

Santa Barbara (Miramonte Laboratory) - Spiradenoma
Woodland Hills (Kaiser Permanente) - Mucoepidermoid carcinoma
Arkansas (The Laboratory of Pathology, P.A.) - Adenoid cystic carcinoma
Georgia, Atlanta - Sialoblastoma
Kansas, Manhattan (Peterson Laboratory Services - Monomorphic adenoma
Louisiana, Shreveport (LSU Health Shreveport) - Myoepithelioma
Maryland, Baltimore - Choristoma?
New Mexico, Albuquerque - Mucoepidermoid carcinoma
Texas, Victoria - Adenoid cystic carcinoma; R/O PLGA
The Netherlands, Amstelveen - Pleomorphic adenoma

Dx:

Pleomorphic adenoma, conjunctiva

Refs:

Unusual progression of pleomorphic adenoma of the lacrimal gland: case report.

Neurol Med Chir (Tokyo 2005 Aug;45(8): p407-10

Miyazaki T; Yamasaki T, et al.

Pleomorphic adenoma of the lacrimal gland with extensive calcification.

Arch Ophthalmol 2004 May;122(5): p778-80

Stefko ST; Di Bernardo C; Green WR; Merbs SL

Tumors of the conjunctiva and cornea.

Surv Ophthalmol 2004 Jan-Feb;49(1): p3-24

Shields CL; Shields JA

Long-term risk of recurrence after intact excision of pleomorphic adenomas of the lacrimal gland.

Arch Ophthalmol 2007 Dec;125(12): p1643-6

Currie ZI; Rose GE

Primary epithelial tumors of the lacrimal gland; a retrospective analysis of 22 patients.

Int J Oral Maxillofac Surg 2009 Jul;38(7): p751-7

Snaathorst J; Sewnaik A, et al.

Case 2:

A 55 y/o woman noted a firm nodule below the right ear for about one month. It was palpable in the

deep lobe of the right parotid gland, which was confirmed by CT scan. The deep lobe was resected, removing a 2.5 x 1.8 x 1.6 cm encapsulated ovoid mass that had a firm, tan and whorled cut surface.

Santa Barbara (Miramonte Laboratory) - Cylindroma
Woodland Hills (Kaiser Permanente) - Basal cell adenoma
Arkansas (The Laboratory of Pathology, P.A.) - Basal cell adenoma
Georgia, Atlanta - Canalicular adenoma
Kansas, Manhattan (Peterson Laboratory Services - Dermal Analogue tumor
Louisiana, Shreveport (LSU Health Shreveport) - Basal cell adenoma
Maryland, Baltimore - Basal cell adenoma
New Mexico, Albuquerque - Basal cell adenoma
Texas, Victoria - Basal cell adenoma R/O mixed t.
The Netherlands, Amstelveen - Basal cell adenoma

Dx:

Basal cell adenoma, deep lobe of parotid gland

Refs:

Fine-needle aspiration cytology of basal cell adenoma of the parotid gland: characteristic cytological features and diagnostic pitfalls.

Diagn Cytopathol 2007 Feb;35(2): p85-90

Kawahara A; Harada H, et al.

Primary unilateral multifocal pleomorphic adenoma of the parotid gland: molecular assessment and literature review.

Head Neck Pathol 2008 Dec;2(4): p339-42

Miliauskas JR; Hunt JL

Basal cell adenoma versus pleomorphic adenoma of the parotid gland: CT findings.

AJR Am J Roentgenol 2007 Nov;189(5): pW254-61

Chiu NC; Wu HM, et al.

Basal cell adenoma in the parotid gland: CT and MR findings.

AJNR Am J Neuroradiol 2004 Apr;25(4): p631-5

Jang M; Park D; Lee SR, et al.

Assessment of p63 expression in the salivary gland neoplasms adenoid cystic carcinoma, polymorphous low-grade adenocarcinoma, and basal cell and canalicular adenomas.

Oral Surg Oral Med Oral Pathol Oral Radiol Endod 2004 May;97(5): p613-9

Edwards PC; Bhuiya T; Kelsch RD

Basal cell adenoma-an unusual presentation.

Ann Diagn Pathol 2003 Oct;7(5): p292-5

Hemachandran M; Lal A; Vaiphei K

Case 3:

A firm nodule was present in the mucosa of the nasopharynx of a 65 y/o woman.

Santa Barbara (Miramonte Laboratory) - Inverted papilloma
Woodland Hills (Kaiser Permanente) - Sinonasal papilloma
Arkansas (The Laboratory of Pathology, P.A.) - Schneiderian papilloma
Georgia, Atlanta - Inverted (Schneiderian) papilloma
Kansas, Manhattan (Pererson Laboratory Services - Inverted Papilloma
Louisiana, Shreveport (LSU Health Shreveport) - Acinic cell carcinoma
Maryland, Baltimore - Inverted papilloma
New Mexico, Albuquerque - Benign squamous proliferation; R/O HPV
Texas, Victoria - ISP with HPV changes
The Netherlands, Amstelveen - HPV addoc. HG dysplasia

Dx:

Inverted squamous papilloma, nasopharynx

Refs:

The role of the human papillomavirus in the pathogenesis of Schneiderian inverted papillomas: an analytic overview of the evidence.

Head Neck Pathol 2008 Jun;2(2): p49-59

Lawson W; Schlecht NF; Brandwein-Gensler M

Histological features and malignant transformation of inverted papilloma.

Eur Arch Otorhinolaryngol 2005 Apr;262(4): p263-8

Eggers G; Eggers H; Sander N; Kossling F; Chilla R

Cytologic-histologic correlations in the diagnosis of inverted sinonasal papilloma.

Diagn Cytopathol 2004 Mar;30(3): p201-7

Gould VE; Manosca F; Reddy VB; Gattuso P

Inverted papilloma of the nasal cavity presenting with massive amounts of squamous metaplastic cells in sputum. A case report.

Acta Cytol 2002 May-Jun;46(3): p596-600

Yamazaki K; Furuta Y, et al.

Sinonasal inverted papilloma: narrative review.

J Laryngol Otol 2010 Jul;124(7): p705-15

Anari S; Carrie S

New staging system for sinonasal inverted papilloma in the endoscopic era.

Laryngoscope 2007 Jul;117(7): p1283-7

Cannady SB; Batra PS; Sautter NB; Roh HJ; Citardi MJ

Case 4:

A 62 y/o woman presented to her physician with a mass in the submandibular gland region. The lesion made it difficult to swallow and she had decreased salivation. The mass was firm to palpation with what appeared to be lymphadenopathy. A submandibulectomy was performed. A 3.4 cm well demarcated lesion with a pale yellow to tan appearance was excised. Small cysts were visible.

Santa Barbara (Miramonte Laboratory) - Benign lymphoepithelial lesion

Woodland Hills (Kaiser Permanente) - Benign lymphoepithelial lesion

Arkansas (The Laboratory of Pathology, P.A.) - SALT lymphoma
Georgia, Atlanta - Epimyoeipithelial sialadenitis
Kansas, Manhattan (Peterson Laboratory Services - Lymphadenoma
Louisiana, Shreveport (LSU Health Shreveport) - Chronic sialadenitis
Maryland, Baltimore - Chronic sclerosing sialadenitis
New Mexico, Albuquerque - Lymphoeipithelial sialadenitis
Texas, Victoria - Lymphoeipithelial. Lesion (with HPV changes)
The Netherlands, Amstelveen - Sjogren's disease

Dx:

Sebaceous lymphadenoma, submandibular gland

Refs:

Sebaceous lymphadenocarcinoma of salivary glands.
Ann Diagn Pathol 2003 Aug;7(4): p236-9
Croitoru CM; Mooney JE; Luna MA

Sebaceous lymphadenoma identified by fine needle aspiration biopsy: a case report.

Acta Cytol 2007 Mar-Apr;51(2): p211-3
Banich J; Reyes CV; Bier-Laning C

Sebaceous lymphadenoma of salivary gland: a case report and a review of the literature.

Acta Otorhinolaryngol Ital 2007 Jun;27(3): p147-50
Maffini F; Fasani R, et al.

Fine needle aspiration cytology of a sebaceous lymphadenoma: a case report.

Acta Cytol 2004 Jul-Aug;48(4): p551-4
Boyle JL; Meschter SC

Cystic sebaceous lymphadenoma of the parotid gland: case report and review of the literature.

Pathologica 2011 Apr;103(2): p32-9
Squillaci S; Marchione R; Piccolomini M

Sebaceous lymphadenoma of the parotid gland.

Indian J Pathol Microbiol 2011 Jan-Mar;54(1): p131-2
Mishra A; Tripathi K, et al.

Case 5:

A 67 y/o patient presented with a one year history of bilateral swelling in the region of the parotid glands. The swelling fluctuated in size. No mouth or conjunctival dryness were experienced. Antibiotics did not help improve the swelling. One of the excised swellings was firm, lobulated and yellowish, and measured 4 x 3 x 1 cm. The cut surface was uniform lobulated and yellowish.

Santa Barbara (Miramonte Laboratory) - Sialolipoma
Woodland Hills (Kaiser Permanente) - HIV salivary gland disease
Arkansas (The Laboratory of Pathology, P.A.) - Lymphocytic sialadenitis
Georgia, Atlanta - Chronic sialadenitis
Kansas, Manhattan (Peterson Laboratory Services - Benign Lymphoeipithelial lesion

Louisiana, Shreveport (LSU Health Shreveport) - Lymphoepithelial sialadenitis
Maryland, Baltimore - Chronic sialadenitis with atrophy
New Mexico, Albuquerque - Marginal zone B-cell lymphoma
Texas, Victoria - Elastofibroma Chronic sclerosing sialadenitis
The Netherlands, Amstelveen - Sialadenitis

Dx:

Lymphoepithelial lesion in setting of Sjogren syndrome, parotid

Refs:

Lymphoepithelial carcinoma of the parotid glands and its relationship with benign lymphoepithelial lesions.

Arch Pathol Lab Med 2008 Feb;132(2): p278-82

Schneider M; Rizzardi C

HIV-unrelated benign lymphoepithelial cyst of the parotid glands containing lymphoepithelial lesion--like structures: a report of 3 cases.

Int J Surg Pathol 2009 Dec;17(6): p421-5

Kojima M; Nakamura N, et al.

Lymphoepithelial cyst of the parotid gland: its possible histopathogenesis based on clinicopathologic analysis of 64 cases.

Hum Pathol 2009 May;40(5): p683-92

Wu L; Cheng J, et al.

Salivary gland expression of transforming growth factor beta isoforms in Sjogren's syndrome and benign lymphoepithelial lesions.

Mol Pathol 2003 Feb;56(1): p52-9

Mason GI; Hamburger J; Bowman S; Matthews JB

Benign lymphoepithelial parotid lesions in vertically HIV-infected patients.

AIDS Patient Care STDS 2006 Aug;20(8): p536-41

Rosso R; Pretolesi F, et al.

Case 6:

A 53 y/o woman had a painless left parotid gland mass for an unknown duration. About two weeks prior to surgery, she first noted pain. A superficial parotidectomy removed a 3.7 x 2.5 x 2.5 cm lobulated, homogeneous tan mass.

Santa Barbara (Miramonte Laboratory) - Oncocytoma

Woodland Hills (Kaiser Permanente) - Oncocytoma

Arkansas (The Laboratory of Pathology, P.A.) - Oncocytoma

Georgia, Atlanta - Oncocytoma

Kansas, Manhattan (Peterson Laboratory Services - Oxyphilic carcinoma

Louisiana, Shreveport (LSU Health Shreveport) - Oncocytoma

Maryland, Baltimore - Oncocytoma (focally infarcted)

New Mexico, Albuquerque - Oncocytoma carcinoma

Texas, Victoria - Malignant Oncocytoma

The Netherlands, Amstelveen - Oncocytoma carcinoma?

Dx:

Oncocytoma, parotid

Refs:

Oncocytoma of the parotid gland.

Ear Nose Throat J 2009 May;88(5): p914

Sarma DP; Santos EE

Bilateral oncocytoma of the parotid gland.

Acta Otolaryngol 2006 Mar;126(3): p324-6

Stomeo F; Meloni F, et al.

Oncocytic neoplasms of the parotid gland: a 16-year institutional review.

Otolaryngol Head Neck Surg 2002 Jun;126(6): p657-62

Capone RB; Ha PK, et al.

Oncocytoma of the salivary glands: a clinicopathologic and immunohistochemical study.

Oral Oncol 2009 Dec;45(12): p232-8

Zhou CX; Gao Y

Papillary oncocytic cystadenoma of the parotid glands: a report of 2 cases with varied cytologic features.

Acta Cytol 2009 Jul-Aug;53(4): p445-8

Zhang S; Bao R; Abreo F

Case 7:

A subtotal rhinectomy and anterior maxillectomy was performed on this 84 y/o woman. She had been bothered by nasal obstruction. At surgery, the nose was completely engulfed by a tan and black fungating tumor that was 3.7 x 2.8 cm. The tumor was present in the gingiva above the insertion of the front teeth. The tumor was also seen on the right and left portions of the nasal septum adjacent to the nose. The tumor approximated the underlying focally softened maxillary bone, being suspicious for bony invasion.

Santa Barbara (Miramonte Laboratory) - Verrucous carcinoma

Woodland Hills (Kaiser Permanente) - Keratinizing squamous cell carcinoma

Arkansas (The Laboratory of Pathology, P.A.) - Verrucous carcinoma

Georgia, Atlanta - Verrucous carcinoma

Kansas, Manhattan (Peterson Laboratory Services) - Sinonasal squamous cell carcinoma, low grade

Louisiana, Shreveport (LSU Health Shreveport) - Schneiderian papilloma, exophytic type

Maryland, Baltimore - Verrucous carcinoma

New Mexico, Albuquerque - Squamous cell carcinoma

Texas, Victoria - Verrucous carcinoma

The Netherlands, Amstelveen - Verrucous carcinoma

Dx:

Verrucous carcinoma, nose and lip

Refs:

Verrucous carcinoma of the lip: an unusual kissing type.
Dermatol Surg 2011 Jul;37(7): p1023-5
Yadav PS; Ahmad QG, et al.

Prevalence of human papillomavirus DNA sequences in verrucous carcinoma of the lip: genomic and therapeutic approaches.
Cancer Lett 2005 May 26;222(2): p139-43
Mitsuishi T; Ohara K, et al.

A huge verrucous carcinoma of the lower lip treated with intra-arterial infusion of methotrexate.
Br J Dermatol 2004 Sep;151(3): p727-9
Sheen MC; Sheu HM, et al.

Oral verrucous carcinoma: a retrospective study in Sao Paulo Region, Brazil.
Clin Oral Investig 2006 Sep;10(3): p205-9
Oliveira DT; de Moraes RV, et al.

Lip verrucous carcinoma in a pregnant woman successfully treated with carbon dioxide laser surgery.
Br J Dermatol 2007 Oct;157(4): p813-5
Hsu CK; Lee JY, et al.

Case 8:

A 56 y/o man complained of mild drainage from a hard palate mass that he first noticed after eating a hard cracker. His dentist incised and drained the mass, but it persisted. An ENT exam showed a 1.5 cm diameter swelling in the left hard palate. A CT scan showed a soft tissue mass along the posterior medial aspect of the left maxillary ridge, just anterior to the left parapharyngeal mucosal space. The adjacent osseous structures were unremarkable. The resected mass was 2.8 cm in greatest diameter and had a white-tan glistening cut surface. Stains for calponin and p63 were both positive, with very heavy background staining on the calponin. Seen by Head & Neck Pathologist, Dr. Mia Perez, Loma Linda, California.

Santa Barbara (Miramonte Laboratory) - Poorly-differentiated small cell neoplasm
Woodland Hills (Kaiser Permanente) - Polymorphous low grade adenocarcinoma
Arkansas (The Laboratory of Pathology, P.A.) - Epithelial-myoepithelial carcinoma
Georgia, Atlanta - Low grade polymorphous adenocarcinoma
Kansas, Manhattan (Peterson Laboratory Services - Myoepithelial carcinoma
Louisiana, Shreveport (LSU Health Shreveport) - Myoepithelioma
Maryland, Baltimore - Myoepithelioma
New Mexico, Albuquerque - Polymorphous low grade adenocarcinoma
Texas, Victoria Epithelial myoepithelial carcinoma
The Netherlands, Amstelveen - Polymorphous LG adenocarcinoma??

Dx:

Carcinoma ex pleomorphic adenoma, myoepithelial carcinoma type, hard palate

Refs:

Prognostic factors of recurrence in salivary carcinoma ex pleomorphic adenoma, with emphasis on the carcinoma histologic subtype: a clinicopathologic study of 43 cases.

Hum Pathol 2010 Jul;41(7): p927-34
Katabi N; Gomez D, et al.

Myoepithelial carcinoma ex pleomorphic adenoma of salivary glands: a problematic diagnosis.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 2005 Feb;99(2): p196-201
Said S; Campana J

Cytomorphologic spectrum of carcinoma ex pleomorphic adenoma.
Acta Cytol 2004 May-Jun;48(3): p309-14
Nigam S; Kumar N; Jain S

Epithelial myoepithelial carcinoma of the parotid gland with malignant ductal and myoepithelial components arising in a pleomorphic adenoma: a case report with cytologic, histologic and immunohistochemical correlation.
Acta Cytol 2007 Sep-Oct;51(5): p807-13
Daneshbod Y; Negahban S, et al.

S100P expression in ductal type of carcinoma ex pleomorphic adenoma.
Am J Surg Pathol 2011 Mar;35(3): p346-55
Hashimoto K; Yamamoto H, et al.

Transformation of pleomorphic adenoma to carcinoma ex pleomorphic adenoma of the parotid gland is independent of p53 mutations.
J Surg Oncol 2010 Feb 1;101(2): p127-30
Gedlicka C; Item CB, et al.

Case 9:

A 68 y/o male had this 1.7 cm cystic tumor involving the parotid gland. It was hemorrhagic.

Santa Barbara (Miramonte Laboratory) - Cavernous hemangioma
Woodland Hills (Kaiser Permanente) - Acinic cell carcinoma
Arkansas (The Laboratory of Pathology, P.A.) - Acinic cell carcinoma
Georgia, Atlanta - Verrucous carcinoma
Kansas, Manhattan (Peterson Laboratory Services - Acinic cell carcinoma
Louisiana, Shreveport (LSU Health Shreveport) - Polymorphous low grade adenocarcinoma
Maryland, Baltimore - Verrucous carcinoma
New Mexico, Albuquerque - Verrucous carcinoma
Texas, Victoria - Verrucous carcinoma, microcystic
The Netherlands, Amstelveen - Mucoepidermoid adenocarcinoma

Dx:

Acinic cell carcinoma, parotid

Refs:

Intracranial extension of acinic cell carcinoma of the parotid gland.
Arch Pathol Lab Med 2005 Jun;129(6): p780-2
Spencer ML; Neto AG; Fuller GN; Luna MA

Colloid-like material in a fine needle aspirate from acinic cell carcinoma of the parotid gland.
Acta Cytol 2002 Nov-Dec;46(6): p1165-6

Takahashi T; Moriki T; Ueta S; Mitani M; Ichien M; Miyazaki E

Sinonasal acinic cell carcinoma: a clinicopathologic study of four cases.

Head Neck 2005 Jul;27(7): p603-7

Neto AG; Pineda-Daboin K; Spencer ML; Luna MA

Case 10:

A 78-year-old female presented with this 2 cm left parotid gland mass. A mucicarmine stain showed focal faint positivity.

Santa Barbara (Miramonte Laboratory) - Mucoepidermoid carcinoma

Woodland Hills (Kaiser Permanente) - Salivary duct carcinoma

Arkansas (The Laboratory of Pathology, P.A.) - Ductal adenocarcinoma

Georgia, Atlanta - Salivary duct carcinoma

Kansas, Manhattan (Peterson Laboratory Services - Salivary duct carcinoma

Louisiana, Shreveport (LSU Health Shreveport) - Salivary duct carcinoma

Maryland, Baltimore - Mucoepidermoid carcinoma, high grade

New Mexico, Albuquerque - Salivary duct carcinoma

Texas, Victoria - High grade adenoca, NOS

The Netherlands, Amstelveen - Ductal Adenocarcinoma

Dx:

Salivary duct carcinoma, parotid

Refs:

Salivary duct carcinoma of the parotid gland: case report and review of the literature.

J Oral Maxillofac Surg 2008 Aug;66(8): p1708-13

Jamal AM; Sun ZJ, et al.

Salivary duct carcinoma in situ of the parotid gland.

Histopathology 2008 Oct;53(4): p416-25

Simpson RH; Desai S; Di Palma S

Salivary duct carcinoma of the parotid gland presenting KIT (CD117) overexpression.

Histopathology 2007 Jul;51(1): p114-5

Sato K; Shimode Y, et al.

Hybrid carcinoma of the parotid gland: report of a case (epithelial-myoepithelial carcinoma and salivary duct carcinoma) and review of the literature.

Acta Otolaryngol 2010;130(1): p185-9

Kainuma K; Oshima A, et al.

Osteoclast-like giant-cell tumor of the parotid with salivary duct carcinoma: case report and cytologic, histologic, and immunohistochemical findings.

Ear Nose Throat J 2007 Oct;86(10): p628-30

Kadivar M; Nilipour Y; Sadeghipour A