World Journal of Clinical Cases

World J Clin Cases 2020 November 26; 8(22): 5496-5834





Contents

Semimonthly Volume 8 Number 22 November 26, 2020

EDITORIAL

5496 Is Dynesys dynamic stabilization system superior to posterior lumbar fusion in the treatment of lumbar degenerative diseases?

Peng BG, Gao CH

MINIREVIEWS

5501 COVID-19: A review of what radiologists need to know

Tang L, Wang Y, Zhang Y, Zhang XY, Zeng XC, Song B

5513 Holistic care model of time-sharing management for severe and critical COVID-19 patients

Yang B, Gao Y, Kang K, Li J, Wang L, Wang H, Bi Y, Dai QQ, Zhao MY, Yu KJ

ORIGINAL ARTICLE

Case Control Study

5518 Bioequivalence of two esomeprazole magnesium enteric-coated formulations in healthy Chinese subjects

Liu ZZ, Ren Q, Zhou YN, Yang HM

5529 Osteoprotegerin, interleukin and hepatocyte growth factor for prediction of diabetesand hypertension in the third trimester of pregnancy

Huang SJ, Wang HW, Wu HF, Wei QY, Luo S, Xu L, Guan HQ

Retrospective Study

5535 High serum lactate dehydrogenase and dyspnea: Positive predictors of adverse outcome in critical COVID-19 patients in Yichang

Lv XT, Zhu YP, Cheng AG, Jin YX, Ding HB, Wang CY, Zhang SY, Chen GP, Chen QQ, Liu QC

5547 Risk factors analysis of prognosis of adult acute severe myocarditis

Zhang Q, Zhao R

5555 Sonographic features of umbilical vein recanalization for a Rex shunt on cavernous transformation of portal vein in children

Zhang YQ, Wang Q, Wu M, Li Y, Wei XL, Zhang FX, Li Y, Shao GR, Xiao J

Clinical Trials Study

5564 Gemcitabine plus concurrent irreversible electroporation vs gemcitabine alone for locally advanced pancreatic cancer

Ma YY, Leng Y, Xing YL, Li HM, Chen JB, Niu LZ



Contents

Semimonthly Volume 8 Number 22 November 26, 2020

Observational Study

5576 No significant association between dipeptidyl peptidase-4 inhibitors and adverse outcomes of COVID-19 Zhou JH, Wu B, Wang WX, Lei F, Cheng X, Qin JJ, Cai JJ, Zhang X, Zhou F, Liu YM, Li HM, Zhu LH, She Z, Zhang X, Yang J, Li HL

META-ANALYSIS

5589 Interobserver agreement for contrast-enhanced ultrasound of liver imaging reporting and data system: A systematic review and meta-analysis

Li J, Chen M, Wang ZJ, Li SG, Jiang M, Shi L, Cao CL, Sang T, Cui XW, Dietrich CF

CASE REPORT

CLAG-M chemotherapy followed by umbilical cord blood stem cell transplantation for primary refractory 5603 acute myeloid leukaemia in a child: A case report

Huang J, Yang XY, Rong LC, Xue Y, Zhu J, Fang YJ

5611 Multiple schwannomas with pseudoglandular element synchronously occurring under the tongue: A case report

Chen YL, He DQ, Yang HX, Dou Y

5618 Primary myelofibrosis with concurrent CALR and MPL mutations: A case report

Zhou FP, Wang CC, Du HP, Cao SB, Zhang J

5625 Endometrial stromal sarcoma extending to the pulmonary artery: A rare case report

Fan JK, Tang GC, Yang H

5632 Malignant acanthosis nigricans with Leser-Trélat sign and tripe palms: A case report

Wang N, Yu PJ, Liu ZL, Zhu SM, Zhang CW

5639 Gastric plexiform fibromyxoma: A case report

Pei JY, Tan B, Liu P, Cao GH, Wang ZS, Qu LL

5645 Rectoseminal vesicle fistula after radical surgery for rectal cancer: Four case reports and a literature review

Xia ZX, Cong JC, Zhang H

5657 Azacitidine decreases reactive oxygen species production in peripheral white blood cells: A case report

П

Hasunuma H, Shimizu N, Yokota H, Tatsuno I

5663 Oral granuloma in a pediatric patient with chronic graft-versus-host disease: A case report

Uesugi A, Tsushima F, Kodama M, Kuroshima T, Sakurai J, Harada H

5670 Intrahepatic biliary cystadenoma: A case report

Xu RM, Li XR, Liu LH, Zheng WQ, Zhou H, Wang XC

5678 Gene diagnosis of infantile neurofibromatosis type I: A case report

Li MZ, Yuan L, Zhuo ZQ

Contents

Semimonthly Volume 8 Number 22 November 26, 2020

5684 Localized amyloidosis affecting the lacrimal sac managed by endoscopic surgery: A case report Song X, Yang J, Lai Y, Zhou J, Wang J, Sun X, Wang D 5690 Endoscopic resection of benign esophageal schwannoma: Three case reports and review of literature Li B, Wang X, Zou WL, Yu SX, Chen Y, Xu HW 5701 Bouveret syndrome masquerading as a gastric mass-unmasked with endoscopic luminal laser lithotripsy: A case report Parvataneni S, Khara HS, Diehl DL 5707 Nonhypertensive male with multiple paragangliomas of the heart and neck: A case report Wang Q, Huang ZY, Ge JB, Shu XH 5715 Completed atrioventricular block induced by atrial septal defect occluder unfolding: A case report He C, Zhou Y, Tang SS, Luo LH, Feng K 5722 Clinical characteristics of adult-type annular pancreas: A case report Yi D, Ding XB, Dong SS, Shao C, Zhao LJ 5729 Port-site metastasis of unsuspected gallbladder carcinoma with ossification after laparoscopic cholecystectomy: A case report Gao KJ, Yan ZL, Yu Y, Guo LQ, Hang C, Yang JB, Zhang MC 5737 Gonadal dysgenesis in Turner syndrome with Y-chromosome mosaicism: Two case reports Leng XF, Lei K, Li Y, Tian F, Yao Q, Zheng QM, Chen ZH 5744 Gastric mixed adenoma-neuroendocrine tumor: A case report Kohno S, Aoki H, Kato M, Ogawa M, Yoshida K 5751 Sebaceous lymphadenocarcinoma of the parotid gland: A case report Hao FY, Wang YL, Li SM, Xue LF 5758 Misdiagnosis of ligamentoid fibromatosis of the small mesenteric: A case report Xu K, Zhao Q, Liu J, Zhou D, Chen YL, Zhu X, Su M, Huang K, Du W, Zhao H 5765 Intraoperative care of elderly patients with COVID-19 undergoing double lung transplantation: Two case reports Wu Q, Wang Y, Chen HQ, Pan H 5773 Amelioration of cognitive impairment following growth hormone replacement therapy: A case report and review of literature Liu JT, Su PH 5781 Early colon cancer with enteropathy-associated T-cell lymphoma involving the whole gastrointestinal tract: A case report

Ш

Zhang MY, Min CC, Fu WW, Liu H, Yin XY, Zhang CP, Tian ZB, Li XY

World Journal of Clinical Cases

Contents

Semimonthly Volume 8 Number 22 November 26, 2020

5790 Bleeding of two lumbar arteries caused by one puncture following percutaneous nephrolithotomy: A case

Liu Q, Yang C, Lin K, Yang D

5795 Hemorrhagic fever with renal syndrome complicated with aortic dissection: A case report

Qiu FQ, Li CC, Zhou JY

5802 Robot-assisted laparoscopic pyeloureterostomy for ureteropelvic junction rupture sustained in a traffic accident: A case report

Kim SH, Kim WB, Kim JH, Lee SW

5809 Large leiomyoma of lower esophagus diagnosed by endoscopic ultrasonography-fine needle aspiration: A case report

Rao M, Meng QQ, Gao PJ

5816 Endoscopic reduction of colocolonic intussusception due to metastatic malignant melanoma: A case report

Kasuga K, Sakamoto T, Takamaru H, Sekiguchi M, Yamada M, Yamazaki N, Hashimoto T, Uraoka T, Saito Y

5821 Usefulness of ultrasonography to assess the response to steroidal therapy for the rare case of type 2b immunoglobulin G4-related sclerosing cholangitis without pancreatitis: A case report

Tanaka Y, Kamimura K, Nakamura R, Ohkoshi-Yamada M, Koseki Y, Mizusawa T, Ikarashi S, Hayashi K, Sato H, Sakamaki A, Yokoyama J, Terai S

LETTER TO THE EDITOR

5831 Is positivity for hepatitis C virus antibody predictive of lower risk of death in COVID-19 patients with

Mangia A, Cenderello G, Verucchi G, Ciancio A, Fontana A, Piazzolla V, Minerva N, Squillante MM, Copetti M

ΙX

ABOUT COVER

Peer-reviewer of World Journal of Clinical Cases, Dr. Galiatsatos Aristidis is an Associate Professor, Department of Biomedical Sciences, Division of Dental Technology, University of West Attica. After graduating from the Faculty of Dentistry of University of Thessaloniki in 1988, he completed his PhD in the Dental Prosthodontics Department of Athens University in 1996. From 1988 to 2005, he continued his professional training in the University of Athens as a Research Fellow in Prosthodontics. During the 1998-1999 academic year, he was hired as a paid research scientist in the same subject area. In 2009, he rose to Assistant and then Associate Professor in the University of West Attica. From September 2019, he has served as Director of the Division of Dental Technology. (L-Editor: Filipodia)

AIMS AND SCOPE

The primary aim of World Journal of Clinical Cases (WJCC, World J Clin Cases) is to provide scholars and readers from various fields of clinical medicine with a platform to publish high-quality clinical research articles and communicate their research findings online.

WJCC mainly publishes articles reporting research results and findings obtained in the field of clinical medicine and covering a wide range of topics, including case control studies, retrospective cohort studies, retrospective studies, clinical trials studies, observational studies, prospective studies, randomized controlled trials, randomized clinical trials, systematic reviews, meta-analysis, and case reports.

INDEXING/ABSTRACTING

The WJCC is now indexed in Science Citation Index Expanded (also known as SciSearch®), Journal Citation Reports/Science Edition, PubMed, and PubMed Central. The 2020 Edition of Journal Citation Reports® cites the 2019 impact factor (IF) for WJCC as 1.013; IF without journal self cites: 0.991; Ranking: 120 among 165 journals in medicine, general and internal; and Quartile category: Q3.

RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: Ji-Hong Liu; Production Department Director: Xiang Li; Editorial Office Director: Jin-Lei Wang.

NAME OF JOURNAL

World Journal of Clinical Cases

ISSN

ISSN 2307-8960 (online)

LAUNCH DATE

April 16, 2013

FREQUENCY

Semimonthly

EDITORS-IN-CHIEF

Dennis A Bloomfield, Sandro Vento, Bao-Gan Peng

EDITORIAL BOARD MEMBERS

https://www.wjgnet.com/2307-8960/editorialboard.htm

PUBLICATION DATE

November 26, 2020

COPYRIGHT

© 2020 Baishideng Publishing Group Inc

INSTRUCTIONS TO AUTHORS

https://www.wjgnet.com/bpg/gerinfo/204

GUIDELINES FOR ETHICS DOCUMENTS

https://www.wjgnet.com/bpg/GerInfo/287

GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH

https://www.wjgnet.com/bpg/gerinfo/240

PUBLICATION ETHICS

https://www.wignet.com/bpg/GerInfo/288

PUBLICATION MISCONDUCT

https://www.wjgnet.com/bpg/gerinfo/208

ARTICLE PROCESSING CHARGE

https://www.wjgnet.com/bpg/gerinfo/242

STEPS FOR SUBMITTING MANUSCRIPTS

https://www.wjgnet.com/bpg/GerInfo/239

ONLINE SUBMISSION

https://www.f6publishing.com

© 2020 Baishideng Publishing Group Inc. All rights reserved. 7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA E-mail: bpgoffice@wjgnet.com https://www.wjgnet.com



Submit a Manuscript: https://www.f6publishing.com

World J Clin Cases 2020 November 26; 8(22): 5751-5757

DOI: 10.12998/wjcc.v8.i22.5751 ISSN 2307-8960 (online)

CASE REPORT

Sebaceous lymphadenocarcinoma of the parotid gland: A case report

Feng-Yun Hao, Yan-Li Wang, Shao-Ming Li, Ling-Fa Xue

ORCID number: Feng-Yun Hao 0000-0002-0425-5954; Yan-Li Wang 0000-0001-9911-9914; Shao-Ming Li 0000-0002-2538-2741; Ling-Fa Xue 0000-0001-8735-98881.

Author contributions: Hao FY performed the pathological imaging, carried out the histopathological studies, and edited the final version; Xue LF obtained the medical history, searched and reviewed the literature, drafted the manuscript, and edited the final version; Wang YL obtained patient follow-up information; Li SM obtained the medical history, provided diagnostic consultation, managed the patient, and edited the final version of the manuscript; All authors read and approved the final manuscript.

Informed consent statement:

Informed written consent was obtained from the patient.

Conflict-of-interest statement: The authors declare that they have no conflict of interest.

CARE Checklist (2016) statement:

The authors have read the CARE Checklist (2016), and the manuscript was prepared and revised according to the CARE Checklist (2016).

Open-Access: This article is an

Feng-Yun Hao, Department of Pathology, The Affiliated Hospital of Qingdao University, Qingdao 266555, Shandong Province, China

Yan-Li Wang, Department of Operating Room, The Affiliated Hospital of Qingdao University, Qingdao 266555, Shandong Province, China

Shao-Ming Li, Ling-Fa Xue, Department of Oral and Maxillofacial Surgery, The Affiliated Hospital of Qingdao University, Qingdao 266555, Shandong Province, China

Corresponding author: Ling-Fa Xue, MD, Associate Chief Physician, Department of Oral and Maxillofacial Surgery, The Affiliated Hospital of Qingdao University, No. 1677 Wutaishan Road, Qingdao 266555, Shandong Province, China. xuelingfa@163.com

Abstract

BACKGROUND

Sebaceous lymphadenoma is a benign tumor that occurs rarely in the salivary glands, most commonly in the parotid glands or periparotid lymph nodes, and even more rarely undergoes malignant transformation into a sebaceous lymphadenocarcinoma.

CASE SUMMARY

We report an 82-year-old woman who presented with a painless mass in the right parotid region. We performed extended surgical resection of the parotid gland mass. Intraoperative pathology revealed a sebaceous lymphadenocarcinoma with metastasis into the periparotid cervical lymph nodes, so we also performed neck dissection and lymph node resection. Postoperative pathology confirmed the diagnosis. The literature review revealed that this was the seventh reported case of sebaceous lymphadenocarcinoma and the second reported case of cervical lymph node metastasis and infiltration of the skin of the parotid gland.

CONCLUSION

Treatment of sebaceous lymphadenocarcinoma depends on the typing and clinical staging of the cancer. Extensive resection is the first choice, and adjuvant radiotherapy should be given to patients with high-grade tumors or those at an advanced clinical stage.

Key Words: Salivary glands; Parotid gland; Sebaceous lymphadenoma; Sebaceous lymphadenocarcinoma; Metastasis; Case report

open-access article that was selected by an in-house editor and fully peer-reviewed by external reviewers. It is distributed in accordance with the Creative Commons Attribution NonCommercial (CC BY-NC 4.0) license, which permits others to distribute, remix, adapt, build upon this work non-commercially, and license their derivative works on different terms, provided the original work is properly cited and the use is non-commercial. See: htt p://creativecommons.org/License s/by-nc/4.0/

Manuscript source: Unsolicited

manuscript

Specialty type: Medicine, research and experimental

Country/Territory of origin: China

Peer-review report's scientific quality classification

Grade A (Excellent): 0 Grade B (Very good): B Grade C (Good): 0 Grade D (Fair): 0 Grade E (Poor): 0

Received: August 10, 2020 Peer-review started: August 10,

2020

First decision: September 13, 2020 Revised: September 23, 2020 Accepted: September 26, 2020 Article in press: September 26, 2020 Published online: November 26, 2020

P-Reviewer: Dereci O S-Editor: Gao CC L-Editor: Filipodia P-Editor: Wang LL



©The Author(s) 2020. Published by Baishideng Publishing Group Inc. All rights reserved.

Core Tip: We present a case of sebaceous lymphadenocarcinoma in the parotid gland of an elderly woman, with metastases to the periparotid lymph nodes. Because these tumors are so rare, we conducted a literature review of sebaceous lymphadenocarcinoma, which revealed that our case is only the seventh reported case of sebaceous lymphadenocarcinoma and the second with cervical lymph node metastasis and infiltration of the skin of the parotid gland. We believe that because these tumors are rare, our case report will add valuable information to the growing reports of their occurrence.

Citation: Hao FY, Wang YL, Li SM, Xue LF. Sebaceous lymphadenocarcinoma of the parotid

gland: A case report. World J Clin Cases 2020; 8(22): 5751-5757 **URL:** https://www.wjgnet.com/2307-8960/full/v8/i22/5751.htm

DOI: https://dx.doi.org/10.12998/wjcc.v8.i22.5751

INTRODUCTION

Sebaceous glands, which are a component of the pilosebaceous unit, are abundant in the head and neck. They are uncommon in the salivary glands, occurring mostly in the parotid glands (10%-42%)[1]. Sebaceous gland tumors in the parotid glands and periparotid cervical lymph nodes are even more rare^[1]. Salivary gland and sebaceous gland tumors are currently classified into sebaceous adenomas, sebaceous lymphadenomas, sebaceous adenocarcinomas, and sebaceous lymphadenocarcinomas. Sebaceous lymphadenocarcinoma is a malignant type of sebaceous lymphadenoma, which has a very rare incidence and is the rarest sebaceous gland tumor in the salivary glands. Before the case presented here, there were only six reports of sebaceous lymphadenocarcinoma^[2,3]. This report discusses a case of sebaceous lymphadenocarcinoma of the parotid gland, with a collateral cervical lymph node metastasis.

CASE PRESENTATION

Chief complaints

An 82-year-old woman presented with a 4-mo history of a painless mass in the right parotid gland.

History of present illness

The painless mass in the right parotid gland had rapidly grown over the previous 4 mo. The symptoms were not relieved after anti-inflammatory treatment for 7 d.

History of past illness

The patient had a 10-year history of hypertension.

Personal and family history

The patient's medical history and family history were unremarkable.

Physical examination

Physical examination showed a 3 cm diameter mass in the right parotid region, with localized reddish skin, clear boundaries, medium texture, mild tenderness, moderate mobility, no fluctuation, and no facial paralysis. No obvious bulge was found on the parapharyngeal wall, and secretions from the parotid duct were clear.

Laboratory examinations

Laboratory tests showed the following results. Urine analysis showed urine occult blood (BLD) (+ -); liver and kidney functions were normal; preoperative routine electrocardiography (ECG) and dynamic ECG suggested sinus bradycardia; and other auxiliary examination results were unremarkable.



Imaging examinations

Enhanced computed tomography (CT) of the neck and magnetic resonance imaging (MRI) of the parotid gland (Figure 1) demonstrated an approximately 28 mm × 21 mm irregular mass shadow at the lower pole of the right parotid gland, with unclear boundaries, obvious inhomogeneous enhancement, and thickened and enhanced adjacent skin. A malignant tumor in the right parotid gland and involvement of the adjacent skin were suspected. Multiple lymph node shadows in the right parotid gland and the right II, V regions were consistent with possible lymph node metastases.

Postoperative pathology examination

A generally greyish-red, 5 cm × 4 cm × 4 cm specimen of parotid tissue, which had a 3.5 cm \times 1 cm segment of skin tissue attached and an underlying 3 cm \times 2 cm \times 1.5 cm, grayish-yellow nodule (Figure 2), was sent for postoperative pathological examination. Microscopic examination showed nest-like tumor cell growth that infiltrated the surrounding striated muscle tissue. Tumor cell cytoplasm was bright and transparent, and some cells were eosinophilic. A large number of interstitial lymphocytes were found, and lymphoid follicles were formed in some regions. Immunohistochemistry results demonstrated that the tumor cells were p40 $^{\circ}$, CK7 $^{\circ}$, CK5/6 $^{\circ}$, p63 $^{\circ}$, CD117 $^{\circ}$, MUC5AC⁻, CEA⁺ (a small number of cells), EMA⁺, CK19⁺, Dog-1⁻, SMA⁻, S-100⁻, AR⁻, HER2-0, ER-, PR-, GCDFP-15-, and calponin. In situ hybridization indicated that the tumor cells were EBER and HER2. The combined results of hematoxylin and eosin (H&E) morphology, immunohistochemistry, and EBER in situ hybridization were highly consistent with sebaceous lymphadenocarcinoma. The remaining cervical tissue was cleared, and metastases were found in regions 2 (1/6) and 5 (1/4) of the detected lymph nodes (Figure 3).

FINAL DIAGNOSIS

Based on radiographic results and histopathology, we finally confirmed the diagnosis of a sebaceous lymphadenocarcinoma with lymph node metastasis.

TREATMENT

We implanted a temporary pacemaker under local anesthesia. Under general anesthesia, we resected the right parotid gland tumor, performed superficial lobectomy of the parotid gland, and dissected the facial nerve. After rapid intraoperative pathology showed poorly differentiated carcinoma of the parotid gland, we dissected the periparotid cervical lymph nodes. No apparent surgical complications occurred after surgery, and the patient was discharged 9 d after surgery.

OUTCOME AND FOLLOW-UP

The family members disagreed with our recommendation for chemotherapy or local radiotherapy because of the advanced age of the patient. No recurrence or metastasis occurred at 10-mo follow-up. We are still following the patient at the time of writing the report.

DISCUSSION

High-grade transformation of sebaceous glands has been found in 11%-28% of normal parotid glands and 6% of submandibular glands[1]. Differentiated sebaceous glands rarely appear in the salivary glands and are found most commonly in the parotid glands, with an incidence of 10%-42%. Sebaceous glands in the submandibular gland are even rarer (5%-6%), and have never been reported in the minor salivary glands. Cortical glands in the oral cavity, called Fordyce granules, have been found in 80% of individuals, most commonly in the buccal mucosa and the vermilion of the upper lip^[2-4]. However, sebaceous gland tumors occur only rarely.

The 2005 World Health Organization (WHO) histopathological classification of tumors divides sebaceous gland tumors arising from the salivary glands into four

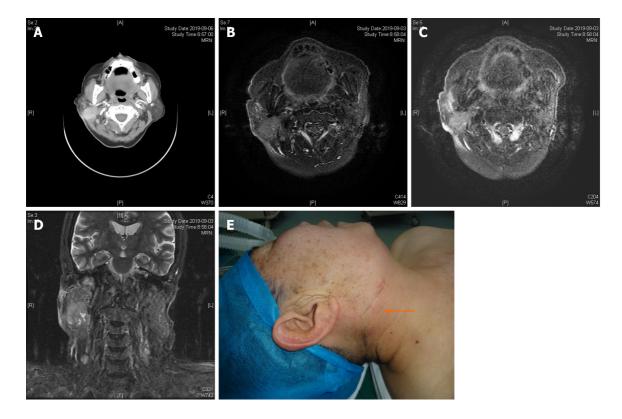


Figure 1 Enhanced computed tomography and magnetic resonance imaging indicated a possible malignant tumor in the right parotid gland, with involvement of adjacent skin and potential lymph node metastases. A: An approximately 28 mm × 21 mm irregular mass shadow was seen at the lower pole of the right parotid gland; B: Unclear boundaries; C: Obviously inhomogeneous enhancement; D: Thickened and enhanced adjacent skin, and multiple lymph node shadows in the right parotid gland and the right II, V regions; E: A clinical photo that shows the pre-operative appearance of the tumor.

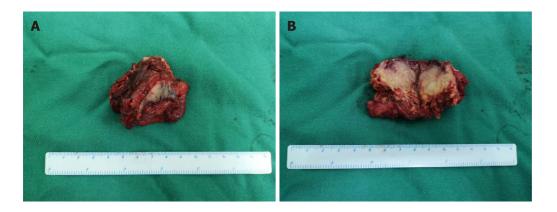


Figure 2 Gross pathology of 5 cm × 4 cm × 4 cm specimen of parotid tissue. A: Greyish-red, irregular parotid tissue, with a 3.5 cm × 1 cm segment of attached skin tissue; B: A 3 cm × 2 cm × 1.5 cm, grayish-yellow nodule.

types: Sebaceous adenoma, sebaceous lymphadenoma, sebaceous adenocarcinoma, and sebaceous lymphadenocarcinoma. The WHO 2017 classification of salivary gland tumors categorizes sebaceous lymphadenocarcinoma as the malignant transformation of sebaceous lymphadenoma. It is the rarest malignant sebaceous tumor in the salivary glands. At the time of writing this report, fewer than 10 cases have been reported (Table 1)[3-9].

The origins of sebaceous lymphadenomas and their malignant transformations have been controversial. Gnepp and Brannon reported that these tumors are probably caused by ectopic salivary gland tissue in the lymph nodes, and that their occurrence is similar to that of Warthin tumors^[2,5]. Other theories have shown that there are residual or inclusion bodies of sebaceous glands in the lymph nodes around the parotid gland.

In a case where the ages of the patients were between 30 and 70 years, the tumors were located in the parotid gland or periparotid lymph nodes. The disease courses

Table 1 R	enorted c	ases of se	haceous l	/mnhad	enocarcinoma

Ref.	Age, yr/sex	History	Location	Histology	Treatment	Follow-up
Linhartová et al ^[4] (1974)	68/female	2.5 yr	Parotid gland	Sebaceous carcinoma arising from lymphadenoma	Excision and postoperative radiotherapy	NER at 6 yr
Gnepp et al ^[5] (1984)	70/male	70 yr	Parotid gland	Poorly differentiated carcinoma arising from lymphadenoma	Excision and superficial parotidectomy	Died of other causes at 18 mo
Gnepp <i>et al</i> ^[6] (1983)	70/male	1 mo	Periparotid lymph nodes	Salivary duct carcinoma with focal epithelial- myoepithelial carcinoma arising from lymphadenoma	Excision and superficial parotidectomy	NER at 14 mo
Croitoru1 et al ^[7] (2003)	55/male	3 yr	Parotid gland	Sebaceous carcinoma arising from lymphadenoma	Excision and postoperative radiotherapy	NER at 4 mo
Ahn <i>et al</i> ^[8] (2006)	36/male	> 10 yr	Parotid gland	Sebaceous carcinoma arising from lymphadenoma	Superficial parotidectomy and postoperative radiotherapy	NER at 24 mo
Claudius <i>et al</i> ^[3] (2011)	87/male	2-6 mo	Parotid gland	Sebaceous carcinoma arising from lymphadenoma with lymphangiosis carcinomatosa and cervical lymph node metastases	Excision, neck dissection and postoperative adjuvant radiotherapy	Died of respiratory failure at 8 mo

NER: No evidence of recurrence.

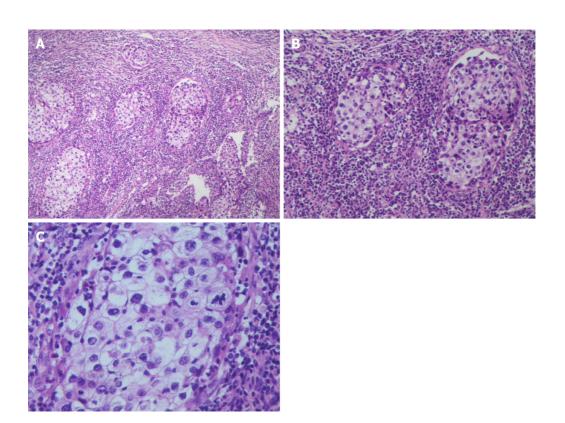


Figure 3 Hematoxylin and eosin staining and microscopic examination revealed a large number of lymphocytes and tumor cells with nest-like and lamellar infiltrative growth. The tumor cells were rich in transparent to eosinophilic cytoplasm, with hyperchromatic nuclei and heterotypic and pathological nuclear division. A: × 100 magnification; B: × 200 magnification; C: × 400 magnification.

ranged from 1 mo to 20 years. In some cases, the skin of the parotid region was involved, which appeared as confluent purplish-red papules[3].

The tumors have been variously reported as brown, yellowish-brown to gray, grayish-white, and white-brown in color, and the largest was 6 cm in diameter. The tumors have partial capsules, present with local infiltrative growth, and include both benign and malignant components of a sebaceous lymphadenoma^[10]. The benign components include cortices, sebaceous lymphadenomas, epithelial infiltration of different sizes in the lymphoid tissue, formation of lymphoid follicles, and different

degrees of invasive pleomorphic cancer cells. The malignant components comprise squamous cell carcinomas, sebaceous adenocarcinomas, and lamellar undifferentiated carcinomas, accompanied by regional ductal differentiation. Adenoid cystic carcinomas and epithelial myoepithelial lesions have also been found, with obvious heteromorphism and nuclear division. Several cases of nerve invasion have been reported. As many as 24 cell divisions have been seen for every × 10 high-power magnification. The tumors present with tissue and cell aggregation and multinucleated foreign body giant cells[7]. No atypical cells have been found in the sebaceous lymphadenomas.

Sebaceous lymphadenocarcinomas should be differentiated from sebaceous adenocarcinomas, mucoepidermoid carcinomas, epithelial myoepithelial carcinomas, squamous cell carcinomas accompanied by clear cells, and metastatic sebaceous adenocarcinomas.

The origins and immunohistochemical characteristics of sebaceous adenocarcinomas and sebaceous lymphadenocarcinomas are different. Based on Ahn et al^[8] research, sebaceous lymphadenocarcinoma tumor tissue is SMA-positive. Another difference is that sebaceous lymphadenocarcinomas arise from the malignant transformation of sebaceous lymphadenomas, which is the primary form.

Cortical lymphadenocarcinomas may be confused with mucoepidermoid carcinomas histologically. Mucoepidermoid carcinomas have clear cytoplasm as well as intracellular mucin in some cells. In the presence of foreign bodies, the foreign body reaction also helps to differentiate cortical lymphadenocarcinomas from mucoepidermoid carcinomas. Mucoepidermoid carcinomas contain intracellular mucin in some transparent cells, but mucin-positive cells are not found in transparent sebaceous cells[2,9].

Glandular epithelial cells are common in myoepithelium-predominant epithelial-myoepithelial carcinomas, appearing in tubular arrangements. Immunohistochemistry has shown CK-positive cells, and clear myoepithelial cell SMA, actin, or myosin. Scanning electron microscopy has been used to visualize the myofilaments.

In squamous cell carcinomas combined with Periodic Acid-Schiff-positive transparent cells with glycogen aggregation, adjacent epithelial hyperplasia has occurred. Basaloid squamous carcinoma can be characterized by the presence of highly atypical basaloid cells accompanied by clear squamous cell differentiation, occasionally acne-like necrosis, and no foam-like cytoplasm^[2,9].

Metastatic sebaceous adenocarcinomas of the parotid glands are rare and can metastasize to the parotid lymph nodes. A reported case of a sebaceous adenocarcinoma of the eyelid metastasizing to the parotid lymph nodes underscores the importance of considering patient medical histories when screening for the presence of sebaceous lymphadenocarcinomas[11].

The treatment of these tumors depends on the typing and clinical staging of the cancer. Extensive surgical resection is the first choice, and adjuvant radiotherapy should be given to patients with high-grade tumors or those determined to be at an advanced clinical stage. There is currently no long-term, follow-up survival data for the few published cases. One report did not include follow-up information and two others reported one patient death each after 8 mo and 1.5 years postoperatively; both from causes unrelated to their cancer. Another four patients survived without recurrence during the reported 4-mo to 6-year follow-up. In our case, the family members disagreed with our recommendation for chemotherapy or local radiotherapy because of the advanced age of the patient. No recurrence or metastasis occurred at 10mo follow-up. We are still following the patient at the time of writing this report.

CONCLUSION

The treatment of sebaceous lymphadenocarcinoma depends on the typing and clinical staging of the cancer. Extensive surgical resection is the first choice, and adjuvant radiotherapy should be given to patients with high-grade tumors or those determined to be at an advanced clinical stage. For such rare tumor sites, it is important for oral and maxillofacial surgeons to review the clinical presentation, histology, and management of sebaceous lymphadenocarcinoma.

REFERENCES

- 1 Gnepp DR, Sporck FT. Benign lymphoepithelial parotid cyst with sebaceous differentiation--cystic sebaceous lymphadenoma. Am J Clin Pathol 1980; 74: 683-687 [PMID: 7446474 DOI: 10.1093/ajcp/74.5.683]
- Gnepp DR. My journey into the world of salivary gland sebaceous neoplasms. Head Neck Pathol 2012; 6: 101-110 [PMID: 22430772 DOI: 10.1007/s12105-012-0343-x]
- Claudius K, Ginzkey C, Gattenlöhner S, Müller J, Demmer P, Bröcker EB. A red cheek as first clinical sign of a sebaceous lymphadenocarcinoma of the parotid gland with lymphangiosis carcinomatosa and lymph node metastases. Am J Dermatopathol 2011; 33: e50-e53 [PMID: 21285859 DOI: 10.1097/DAD.0b013e3181edabf5]
- 4 Linhartová A. Sebaceous glands in salivary gland tissue. Arch Pathol 1974; 98: 320-324 [PMID: 4415696]
- Gnepp DR, Brannon R. Sebaceous neoplasms of salivary gland origin. Report of 21 cases. Cancer 1984; 53: 2155-2170 [PMID: 6704903 DOI: 10.1002/1097-0142(19840515)53:10<2155::aid-cncr2820531026>3.0.co;2-f]
- Gnepp DR. Sebaceous neoplasms of salivary gland origin: a review. Pathol Annu 1983; 18 Pt 1: 71-102 [PMID: 6308548]
- Croitoru CM, Mooney JE, Luna MA. Sebaceous lymphadenocarcinoma of salivary glands. Ann Diagn Pathol 2003; 7: 236-239 [PMID: 12913846 DOI: 10.1016/s1092-9134(03)00052-2]
- Ahn SH, Park SY. Sebaceous lymphadenocarcinoma of parotid gland. Eur Arch Otorhinolaryngol 2006; **263**: 940-942 [PMID: 16786364 DOI: 10.1007/s00405-006-0087-x]
- Seethala RR, Stenman G. Update from the 4th Edition of the World Health Organization Classification of Head and Neck Tumours: Tumors of the Salivary Gland. Head Neck Pathol 2017; 11: 55-67 [PMID: 28247227 DOI: 10.1007/s12105-017-0795-0]
- Seethala RR, Thompson LD, Gnepp DR, Barnes EL, Skalova A, Montone K, Kane S, Lewis JS Jr, Solomon LW, Simpson RH, Khan A, Prasad ML. Lymphadenoma of the salivary gland: clinicopathological and immunohistochemical analysis of 33 tumors. Mod Pathol 2012; 25: 26-35 [PMID: 21892186 DOI: 10.1038/modpathol.2011.135]
- Lally SE, Rao R, Shields JA, Shields CL. Comparison of posterior lamellar resection vs lumpectomy for initial management of localized tarsal conjunctival sebaceous carcinoma in 54 cases. Indian J Ophthalmol 2018; 66: 1295-1300 [PMID: 30127144 DOI: 10.4103/ijo.IJO 239 18]



Published by Baishideng Publishing Group Inc

7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA

Telephone: +1-925-3991568

E-mail: bpgoffice@wjgnet.com

Help Desk: https://www.f6publishing.com/helpdesk

https://www.wjgnet.com

