World Journal of Clinical Cases

World J Clin Cases 2022 May 16; 10(14): 4327-4712





Contents

Thrice Monthly Volume 10 Number 14 May 16, 2022

OPINION REVIEW

4327 Emerging role of biosimilars in the clinical care of inflammatory bowel disease patients

Najeeb H, Yasmin F, Surani S

MINIREVIEWS

4334 Practical insights into chronic management of hepatic Wilson's disease

Lynch EN, Campani C, Innocenti T, Dragoni G, Forte P, Galli A

4348 Adipose-derived stem cells in the treatment of hepatobiliary diseases and sepsis

Satilmis B. Cicek GS. Cicek E. Akbulut S. Sahin TT. Yilmaz S

ORIGINAL ARTICLE

Clinical and Translational Research

4357 Learning curve for a surgeon in robotic pancreaticoduodenectomy through a "G"-shaped approach: A cumulative sum analysis

Wei ZG, Liang CJ, Du Y, Zhang YP, Liu Y

4368 Clinical and prognostic significance of expression of phosphoglycerate mutase family member 5 and Parkin in advanced colorectal cancer

Wu C, Feng ML, Jiao TW, Sun MJ

Case Control Study

Significance of preoperative peripheral blood neutrophil-lymphocyte ratio in predicting postoperative 4380 survival in patients with multiple myeloma bone disease

Xu ZY, Yao XC, Shi XJ, Du XR

Retrospective Study

4395 Association between depression and malnutrition in pulmonary tuberculosis patients: A cross-sectional study

Fang XE, Chen DP, Tang LL, Mao YJ

4404 Pancreatic cancer incidence and mortality patterns in 2006-2015 and prediction of the epidemiological trend to 2025 in China

Yin MY, Xi LT, Liu L, Zhu JZ, Qian LJ, Xu CF

4414 Evaluation of short- and medium-term efficacy and complications of ultrasound-guided ablation for small liver cancer

Zhong H, Hu R, Jiang YS

World Journal of Clinical Cases

Contents

Thrice Monthly Volume 10 Number 14 May 16, 2022

4425 Hematopoiesis reconstitution and anti-tumor effectiveness of Pai-Neng-Da capsule in acute leukemia patients with haploidentical hematopoietic stem cell transplantation

Yuan JJ, Lu Y, Cao JJ, Pei RZ, Gao RL

4436 Oral and maxillofacial pain as the first sign of metastasis of an occult primary tumour: A fifteen-year retrospective study

Shan S, Liu S, Yang ZY, Wang TM, Lin ZT, Feng YL, Pakezhati S, Huang XF, Zhang L, Sun GW

4446 Reduced serum high-density lipoprotein cholesterol levels and aberrantly expressed cholesterol metabolism genes in colorectal cancer

Tao JH, Wang XT, Yuan W, Chen JN, Wang ZJ, Ma YB, Zhao FQ, Zhang LY, Ma J, Liu Q

Observational Study

4460 Correlation of pressure gradient in three hepatic veins with portal pressure gradient

Wang HY, Song QK, Yue ZD, Wang L, Fan ZH, Wu YF, Dong CB, Zhang Y, Meng MM, Zhang K, Jiang L, Ding HG, Zhang YN, Yang YP, Liu FQ

4470 Multi-slice spiral computed tomography in diagnosing unstable pelvic fractures in elderly and effect of less invasive stabilization

Huang JG, Zhang ZY, Li L, Liu GB, Li X

SYSTEMATIC REVIEWS

4480 Distribution and changes in hepatitis C virus genotype in China from 2010 to 2020

Yang J, Liu HX, Su YY, Liang ZS, Rao HY

CASE REPORT

4494 Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature

Orlandi N, Cavallieri F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valzania F, Zedde M

4502 Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report

Huguenot M, Bruhm AC, Essig M

4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report and review of literature

Π

Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH

4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report

Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S

4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report

Xu HJ, Wen GD

4535 Isolated pancreatic injury caused by abdominal massage: A case report

Sun BL, Zhang LL, Yu WM, Tuo HF

Contents

Thrice Monthly Volume 10 Number 14 May 16, 2022

4541 Bronchiolar adenoma with unusual presentation: Two case reports

Du Y, Wang ZY, Zheng Z, Li YX, Wang XY, Du R

4550 Periodontal-orthodontic interdisciplinary management of a "periodontally hopeless" maxillary central incisor with severe mobility: A case report and review of literature

Jiang K, Jiang LS, Li HX, Lei L

4563 Anesthesia management for cesarean section in a pregnant woman with odontogenic infection: A case report

Ren YL, Ma YS

4569 Convulsive-like movements as the first symptom of basilar artery occlusive brainstem infarction: A case report

Wang TL, Wu G, Liu SZ

4574 Globe luxation may prevent myopia in a child: A case report

Li Q, Xu YX

4580 Computer tomography-guided negative pressure drainage treatment of intrathoracic esophagojejunal anastomotic leakage: A case report

Jiang ZY, Tao GQ, Zhu YF

4586 Primary or metastatic lung cancer? Sebaceous carcinoma of the thigh: A case report

Wei XL, Liu Q, Zeng QL, Zhou H

4594 Perianesthesia emergency repair of a cut endotracheal tube's inflatable tube: A case report

Wang TT, Wang J, Sun TT, Hou YT, Lu Y, Chen SG

4601 Diagnosis of cytomegalovirus encephalitis using metagenomic next-generation sequencing of blood and cerebrospinal fluid: A case report

Xu CQ, Chen XL, Zhang DS, Wang JW, Yuan H, Chen WF, Xia H, Zhang ZY, Peng FH

4608 Primary sigmoid squamous cell carcinoma with liver metastasis: A case report

Li XY, Teng G, Zhao X, Zhu CM

4617 Acute recurrent cerebral infarction caused by moyamoya disease complicated with adenomyosis: A case report

Zhang S, Zhao LM, Xue BQ, Liang H, Guo GC, Liu Y, Wu RY, Li CY

4625 Serum-negative Sjogren's syndrome with minimal lesion nephropathy as the initial presentation: A case report

Li CY, Li YM, Tian M

4632 Successful individualized endodontic treatment of severely curved root canals in a mandibular second molar: A case report

Ш

Xu LJ, Zhang JY, Huang ZH, Wang XZ

World Journal of Clinical Cases

Contents

Thrice Monthly Volume 10 Number 14 May 16, 2022

4640 Successful treatment in one myelodysplastic syndrome patient with primary thrombocytopenia and secondary deep vein thrombosis: A case report

Liu WB, Ma JX, Tong HX

4648 Diagnosis of an extremely rare case of malignant adenomyoepithelioma in pleomorphic adenoma: A case

Zhang WT, Wang YB, Ang Y, Wang HZ, Li YX

4654 Management about intravesical histological transformation of prostatic mucinous carcinoma after radical prostatectomy: A case report

Bai SJ, Ma L, Luo M, Xu H, Yang L

4661 Hepatopulmonary metastases from papillary thyroid microcarcinoma: A case report

Yang CY, Chen XW, Tang D, Yang WJ, Mi XX, Shi JP, Du WD

4669 PD-1 inhibitor in combination with fruquintinib therapy for initial unresectable colorectal cancer: A case report

Zhang HQ, Huang CZ, Wu JY, Wang ZL, Shao Y, Fu Z

4676 Cutaneous metastasis from esophageal squamous cell carcinoma: A case report

Zhang RY, Zhu SJ, Xue P, He SQ

4684 Rare pattern of Maisonneuve fracture: A case report

Zhao B, Li N, Cao HB, Wang GX, He JQ

4691 Suprasellar cistern tuberculoma presenting as unilateral ocular motility disorder and ptosis: A case report

Zhao BB, Tian C, Fu LJ, Zhang XB

4698 Development of plasma cell dyscrasias in a patient with chronic myeloid leukemia: A case report

Zhang N, Jiang TD, Yi SH

4704 Ovarian growing teratoma syndrome with multiple metastases in the abdominal cavity and liver: A case

ΙX

Hu X, Jia Z, Zhou LX, Kakongoma N

LETTER TO THE EDITOR

4709 Perfectionism and mental health problems: Limitations and directions for future research

Nazari N

Contents

Thrice Monthly Volume 10 Number 14 May 16, 2022

ABOUT COVER

Editorial Board Member of World Journal of Clinical Cases, Jamir Pitton Rissardo, MD, Academic Research, Adjunct Associate Professor, Research Associate, Department of Medicine, Federal University of Santa Maria, Santa Maria 97105110, Brazil. jamirrissardo@gmail.com

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, Scopus, PubMed, and PubMed Central. The 2021 Edition of Journal Citation Reports® cites the 2020 impact factor (IF) for WJCC as 1.337; IF without journal self cites: 1.301; 5-year IF: 1.742; Journal Citation Indicator: 0.33; Ranking: 119 among 169 journals in medicine, general and internal; and Quartile category: Q3. The WJCC's CiteScore for 2020 is 0.8 and Scopus CiteScore rank 2020: General Medicine is 493/793.

RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: Hua-Ge Yu; Production Department Director: Xu Guo; Editorial Office Director: Jin-Lei Wang.

NAME OF JOURNAL

World Journal of Clinical Cases

ISSN

ISSN 2307-8960 (online)

LAUNCH DATE

April 16, 2013

FREOUENCY

Thrice Monthly

EDITORS-IN-CHIEF

Bao-Gan Peng, Jerzy Tadeusz Chudek, George Kontogeorgos, Maurizio Serati, Ja Hyeon Ku

EDITORIAL BOARD MEMBERS

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

PUBLICATION DATE

May 16, 2022

COPYRIGHT

© 2022 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.wjgnet.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

© 2022 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 2022 May 16; 10(14): 4586-4593

DOI: 10.12998/wjcc.v10.i14.4586

ISSN 2307-8960 (online)

CASE REPORT

Primary or metastatic lung cancer? Sebaceous carcinoma of the thigh: A case report

Xiao-Lin Wei, Qing Liu, Qiang-Lin Zeng, Hui Zhou

Specialty type: Oncology

Provenance and peer review:

Unsolicited article; Externally peer reviewed.

Peer-review model: Single blind

Peer-review report's scientific quality classification

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

P-Reviewer: Nyamuryekung'e MK, Tanzania; Wang J, China

Received: October 12, 2021 Peer-review started: October 12, 2021

First decision: December 10, 2021 Revised: December 23, 2021 Accepted: March 25, 2022 Article in press: March 25, 2022 Published online: May 16, 2022



Xiao-Lin Wei, Department of Respirology, Taikang Sichuan Southwest Hospital Company Limited, Chengdu 610095, Sichuan Province, China

Qing Liu, Department of Abdominal Oncology, Cancer Center, West China Hospital, Sichuan University, Chengdu 610000, Sichuan Province, China

Qiang-Lin Zeng, Hui Zhou, Department of Respiratory and Critical Care Medicine, The Affiliated Hospital of Chengdu University School of Clinical Medicine, Chengdu University, Chengdu 610081, Sichuan Province, China

Corresponding author: Hui Zhou, MD, Professor, Department of Respiratory and Critical Care Medicine, The Affiliated Hospital of Chengdu University School of Clinical Medicine, Chengdu University, No. 82 North Section 2, 2nd Ring Road, Chengdu 610081, Sichuan Province, China. zhouhuicdu@hotmail.com

Abstract

BACKGROUND

Sebaceous carcinoma (SC), a malignancy primarily characterized by aggressive growth, affects cutaneous tissues of the periocular region. Extraocular SC is extremely rare, especially in the extremities, as evidenced by only a handful of reported cases.

CASE SUMMARY

A 65-year-old man presented with a rapidly enlarging swelling on the left inner thigh, which was initially misdiagnosed as a subcutaneous abscess. The lesion had appeared two months prior to admission. Clinical examination revealed a cauliflower-like swollen content, with an ulcerated and infected mass located on his left thigh. At the same time, we observed solitary nodular lesions in his lungs and brain, with biopsy pathology of the lung lesions found to be consistent with the mass in the thigh. The patient received chemotherapy comprising cis-platinum with fluorouracil, followed by targeted therapy with anlotinib hydrochloride and chemotherapy with vinorelbine, implantation of iodine-125 seeds in the thigh and pulmonary tumor. The initial stage intervention achieved partial remission. The efficacy of maintenance treatment was evaluated as stable disease after the first 5 cycles; however, the patient developed a new brain lesion after the sixth cycle of treatment, which resulted in progressive disease and he received whole brain gamma knife radiotherapy.

CONCLUSION

We analyzed the clinical presentation, imaging features, pathology and treatment of a rare case of lung, brain and lymph node metastasis of SC located in the thigh. It is evident that cis-platinum combined with fluorouracil, vinorelbine combined with anlotinib hydrochloride may be an effective therapeutic regimen in advanced SC. However, brain metastatic lesions should receive early radiotherapy.

Key Words: Extraocular sebaceous carcinoma; Chemotherapy; Targeted therapy; Radiotherapy; Case report

©The Author(s) 2022. Published by Baishideng Publishing Group Inc. All rights reserved.

Core Tip: Sebaceous carcinoma (SC) is a rare malignant tumor of skin, mainly occurring in the head and neck, but rarely in the limbs. The diagnosis and treatment of SC remains unclear due to its rarity. Our patient presented with a skin mass with lung and brain lesions, which should be distinguished from skin metastasis of lung cancer. After comprehensive treatment, the patient achieved a good effect in the early stage, the later stage of the disease tended to be stable. It seems that cis-platinum combined with fluorouracil, vinorelbine combined with anlotinib hydrochloride may be an effective therapeutic regimen.

Citation: Wei XL, Liu Q, Zeng QL, Zhou H. Primary or metastatic lung cancer? Sebaceous carcinoma of the thigh: A case report. World J Clin Cases 2022; 10(14): 4586-4593

URL: https://www.wjgnet.com/2307-8960/full/v10/i14/4586.htm

DOI: https://dx.doi.org/10.12998/wjcc.v10.i14.4586

INTRODUCTION

A sebaceous gland is a microscopic exocrine gland in the skin, which occurs between the hair follicles and the trichotricus erectus. It opens into a hair follicle and secretes an oily or waxy matter, called sebum, which lubricates the hair and skin in mammals. Sebaceous carcinoma (SC), which is characterized by aggressive growth, is a rare neoplasm that commonly arises in the eyelid and facial skin, and is extremely rare in other areas of the body[1]. Clinically, SC is typically asymptomatic, although it presents with yellow, red, or grayish-white domed nodules or plaques, accompanied by ulcers or crusts. The lack of specific clinical features often leads to delayed diagnosis or misdiagnosis. To date, diagnosis and treatment approaches for SC are not well studied due to the rarity of the tumor. Here, we present a case of lung, brain and lymph node metastasis from a thigh SC, and discuss the clinicopathological features, and treatment, with a brief review of relevant literature.

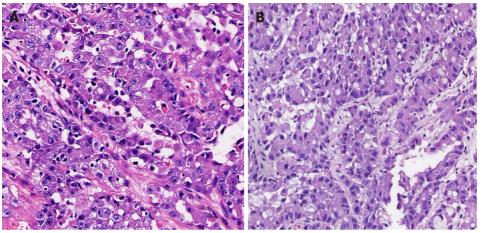
CASE PRESENTATION

Chief complaints

A 65-year-old man was admitted to the Department of Respiratory and Critical Care Medicine, Affiliated Hospital of Chengdu University on March 18, 2020. His primary complaint was a lump on the left inner thigh, over the past 2 mo, and a 1-month-old pulmonary occupation. Two months prior to admission, the patient had developed a nodule on his left inner thigh, about the size of a broad bean, and was experiencing pain due to local compression, but with no discomfort, such as ulceration or suppuration. The patient had a cough but no chest pain, bloody sputum, headache or other discomfort.

History of present illness

He had consulted a local hospital where they performed local incision and drainage as well as pathological biopsy, and his condition was considered to be "suppurative infection". Results from pathological examinations suggested infiltration of malignant tumor with necrosis (Figure 1A), while immunohistochemical findings indicated Cytokeratin (CK) (+), Epithelial membrane antigen (EMA) (+), protein p63 (P63) (partial+), Thyroid transcription factor 1 (TTF-1) (-), chromogranin A (CgA) (-), S 100 (-), HMB45 (-), cell differentiation factor 34 (CD 34) and CD 31 (-), Ki- 67 (+, > 50%), in support of a poorly differentiated carcinoma, and SC was considered after exclusion of metastasis. A chest computed tomography (CT) scan revealed soft tissue shadows in the tip of the left upper lobe, about 19 mm × 23 mm × 21 mm, suggesting peripheral lung cancer. At the same time, the nodule in the patient's inner thigh gradually grew, exhibiting local redness, swelling and bleeding.



DOI: 10.12998/wjcc.v10.i14.4586 Copyright ©The Author(s) 2022.

Figure 1 Histopathological examination using hematoxylin-eosin staining (400 x). A: Skin biopsy pathology; B: Pulmonary pathological biopsy.

History of past illness

Medical records revealed that the patient had neither a history of hypertension nor diabetes, but had an unexplained weight loss of 5 kg in the recent 2 mo. He had a 40-year history of tobacco smoking, although he had stopped in the 2 mo prior to admission. He also occasionally drank alcohol for over 40 years, although he was not addicted to it.

Personal and family history

There was no pertinent family history.

Physical examination

A lump was found on the left inner thigh.

Laboratory examinations

Routine blood tests were normal, including erythrocyte sedimentation rate and C-reactive protein. Both liver and kidney function were normal. CA19-9 and CA125 were significantly increased.

Imaging examinations

The patient underwent further examination to assess tumor metastasis. Analysis of plain and enhanced brain magnetic resonance imaging (MRI) images revealed a well-defined mass approximately 32 mm × 28 mm × 29 mm in size in the left parietal lobe. An enhanced chest CT scan showed a lobulated highdensity shadow 23 mm × 21 mm × 25 mm in size in the upper lobe apex of the left lung, surrounded by spicules. Furthermore, systemic positron emission tomography-CT demonstrated the presence of a malignant lesion (peripheral lung cancer) at the tip of the upper lobe of the left lung, single brain metastasis in the left parietal lobe, and lymph node metastasis in the left inguinal region and the inner upper left thigh. No other abnormalities were observed.

FINAL DIAGNOSIS

Left thigh SC with lung, brain, and inguinal lymph node metastases.

TREATMENT

The patient was administered cisplatin combined with fluorouracil for 6 cycles. In the first 4 cycles, the patient received intravenous infusion of 40 mg cisplatin from day 1 to day 3, intravenous injection of 250 mg fluorouracil from day 1 to day 4, and continuous intravenous pumping of 4000 mg fluorouracil from day 1 to day 4, once every 3 wk. Severe myelosuppression occurred after chemotherapy. Therefore, the subsequent two cycles of chemotherapy were adjusted as follows: Intravenous infusion of 50 mg cisplatin from day 1 to day 2, intravenous injection of 250 mg fluorouracil from day 1 to day 4, continuous intravenous pumping of 4000 mg fluorouracil from day 1 to day 4, once every three weeks, with implantation of iodine-125 seeds in the thigh and pulmonary tumor. We recommended brain radiotherapy, and the patient declined. Thereafter, the patient was sustained on a maintenance

treatment comprising targeted therapy with anlotinib hydrochloride combined with vinorelbine adjuvant chemotherapy for 6 cycles. The dose of anlotinib hydrochloride was 12 mg once a day, taken orally before breakfast. This medication was continued for 2 wk and withdrawn for 1 wk, i.e., the course of treatment was 3 wk (21 d). Vinorelbine treatment was administered as follows: In the first cycle, 80 mg vinorelbine tartrate soft capsule was given orally on the first day, and 100 mg vinorelbine tartrate soft capsule was administered orally on the eighth day. From the second to the sixth cycles, 100 mg vinorelbine tartrate soft capsule was given orally on the first day and on the eighth day, once every 3 wk.

OUTCOME AND FOLLOW-UP

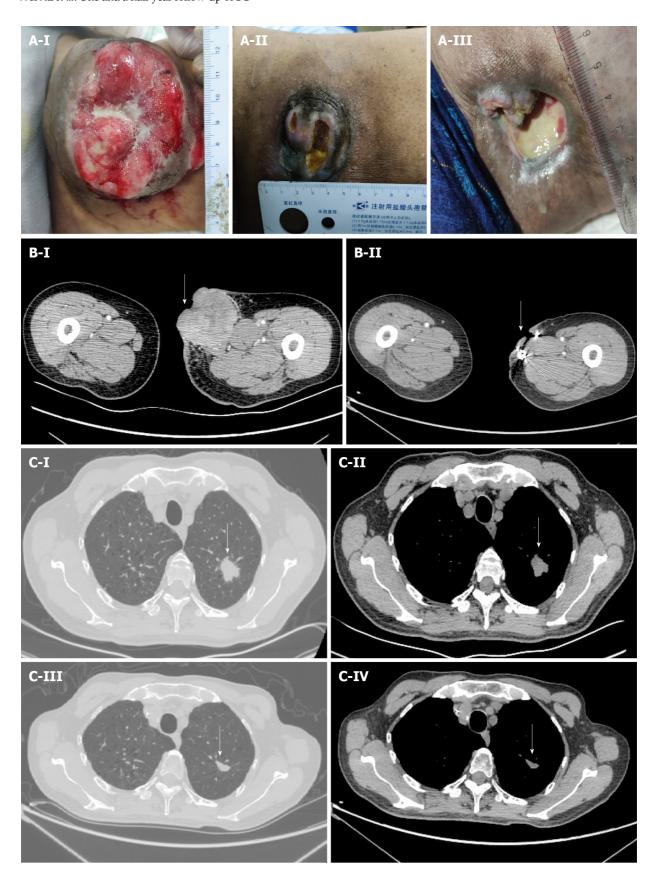
After the first stage treatment, we observed a significant reduction in the nodule on the medial side of the left thigh, as well as marked improvement in local ulceration and bleeding as well as a reduction in lung and brain metastases. After 6 cycles of early-stage chemotherapy, the patient achieved partial remission (PR). There were no significant adverse events. After the first 5 cycles of maintenance treatment, efficacy of this maintenance treatment was evaluated as stable disease (SD), and the lung and thigh lesions continued to shrink. However, the patient developed a new brain lesion after the sixth cycle of treatment (Figure 2), which resulted in progressive disease (PD) on comprehensive efficacy evaluation, and he received whole brain gamma knife radiotherapy at a regular dose, and continued with anlotinib combined with vinorelbine treatment. We will continue to follow his condition.

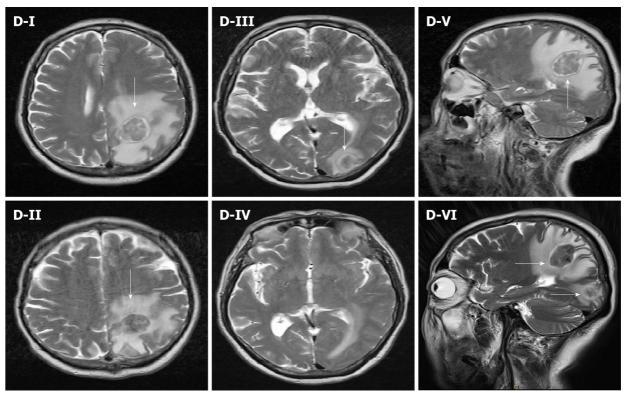
Radiological evaluation of the brain and chest after maintenance treatment confirmed the following: Chest CT scan revealed a lobulated high-density shadow 11 mm × 17 mm × 13 mm in size in the upper lobe apex of the left lung, surrounded by spicules, and focal emphysema. Brain MRI revealed an irregular solid lesion (25 mm × 22 mm) in the left parietal lobe, and an irregular solid lesion (18 mm × 15 mm) in the left occipital lobe. The edges of the lesions seemed to be surrounded by a capsule.

DISCUSSION

SC is a rare malignant tumor that originates from adnexal skin structures. This rare and potentially aggressive sebaceous gland derived malignancy was first described in the salivary glands by Rauch and Masshoff[2]. The typical clinical manifestations of SC are painless skin nodules, with slow growth, or diffuse thickening of the skin and an irregular mass, and often involve the subcutaneous tissue, or distant metastasis, which can easily be misdiagnosed as benign disease and delayed diagnosis, thereby requiring differentiation from cutaneous inflammation, sebaceous cyst and cutaneous malignant tumor [3,4]. Although SC often occurs in the head and neck, about 75% of adenocarcinomas in all cases are found around the orbit, especially the eyelid. Notably, only about 25% of these cases originate from the sebaceous glands outside the orbit, such as the neck, scalp, trunk, limbs, and the reproductive system. SC is usually divided into the eye and extraocular areas, and its onset is predominantly in people aged between 60 to 70 years old. Previous studies have found no evidence of significant differences in its incidence between men and women, although it is more common in Asian populations [5,6]. Extraocular SCs are extremely rare skin cancers, exhibiting diverse clinical and histopathological manifestations, which makes diagnosis difficult, thereby increasing the rate of misdiagnosis and missed diagnosis. In the present study, our patient was a 65-year-old man, and his age was within the average age of people expected to be diagnosed with SC. However, he presented with an extraocular neoplasm at an atypical location, the thigh. Given that the neoplasm did not cause pain or swelling, it was initially misdiagnosed as a subcutaneous abscess and it was not clear whether it could be considered as skin cancer lung metastasis or lung cancer skin metastasis.

SC has a varied pattern of histopathological manifestations. Microscopically, tumor cells show lobulated or papillary growth, and are arranged into a number of nests or sheets of different sizes by the fibrous stroma. In fact, these present an invasive growth pattern, with varying degrees of pleomorphism and atypia, as well as common cell necrosis and fibrosis. Notably, SC with prevalent cellular pleomorphism and cytologic atypia can exhibit poorly differentiated squamous cell sample sebaceous gland cancer alien, owing to differences in the degree of differentiation, and these are characterized by obvious squamous metaplasia, as evidenced by keratin pearls. Alternatively, they may show basal cell sebaceous gland cancer alien, with tumor tissue invading surrounding tissues and cells is less cytoplasm of basaloid cells, arranged in a fence surrounding the form, the center can form "acne" necrosis, nuclear pleomorphism, and prominent nucleoli. Therefore, clinicians can employ immunohistochemical studies using oil red-O stain, fat stain, EMA, cytokeratin, CAM 5.2, or BRST-1 to differentiate it from mucoepidermoid carcinoma, poorly differentiated squamous cell carcinoma, basal cell carcinoma and metastatic clear cell renal carcinoma[7-10]. In the present case, immunohistochemical analysis revealed that both the primary SC and pulmonary metastasis were positive for EMA, Ki-67 but negative for TTF-1, whereas pulmonary metastasis was positive for CAM 5.2 but negative for P63, Napsin-A, and CEA. Based on these findings, we diagnosed the pulmonary disease as pulmonary metastasis from SC.





DOI: 10.12998/wjcc.v10.i14.4586 **Copyright** ©The Author(s) 2022.

Figure 2 Comparison of lesion size before the initial stage treatment and after 6 cycles of maintenance treatment. A: Lesion size before treatment (A-I). Lesion size after 6 cycles of the initial stage chemotherapy (A-II). Lesion size after 6 cycles of maintenance treatment (A-III); B: CT scans showing comparison of lesion size in the thigh. Before treatment = about 68 mm × 74 mm (B-I), after 6 cycles of maintenance treatment = about 36 mm × 14 mm (B-II); C: CT scans showing comparison of lesion size in the lung. Before treatment = 23 mm × 21 mm × 25 mm (C-II), after treatment = 11 mm × 13 mm (C-III) and C-IV); D: MRI results showing comparison of lesion size in the brain. Lesion in the left parietal lobe before treatment = 32 mm × 28 mm × 29 mm (D-I, D-III and D-V), after treatment, lesion in the left parietal lobe = 25 mm × 22 mm, new lesion in the left occipital lobe = 18 mm × 15 mm (D-II, D-IV and D-VI) (white arrow).

SC can be part of Muir-Torre syndrome, an autosomal dominant genetic syndrome characterized by the presence of at least one sebaceous adenoma and internal malignancy. Colorectal cancer is the most common internal malignancy[11]. As the patient in the present study exhibited abnormalities in many markers, such as CA19-9 and CA125, gastroscopy was performed to ascertain intestinal polyps. Although pathological biopsy revealed benign lesions, we could not rule out the possibility of them turning into malignant lesions during disease progression. Therefore, we recommend regular follow-up gastroscopy during later stages, as well as health screening of family members.

Currently, surgical resection of early and low-grade tumors are the key treatment strategies for SC, although they are associated with high local recurrence rates after excision[12]. For patients with highgrade and advanced tumors, radiotherapy, chemotherapy, local treatment, and other comprehensive treatment measures are recommended. Anti-angiogenesis and blocking of certain inflammatory pathways are expected to become new treatment targets[13,14]. Previous evidence has recently demonstrated the efficacy of platinum in combination with immunotherapy for some patients with postoperative recurrence, such as Programmed death-1 (PD-1) or Programmed death-ligand 1 (PD-L1) inhibitors during SC treatment[15,16]. However, these treatments are mainly for ocular SC, while treatment for extraocular SC is not well studied. This patient had a short disease course, but once confirmed, he presented with local lymph node, lung and brain metastases, making it impossible to perform early radical surgery. Therefore, we chose comprehensive treatment. Fortunately, the therapeutic effect of cisplatin combined with fluorouracil in the early stage was good. Although severe myelosuppression occurred, the patient's condition significantly improved. During chemotherapy, the patient received iodine-125 seeds implantation in the thigh and lung lesions, and the final therapeutic outcome was designated as PR. For maintenance treatment, targeted anothinib therapy combined with vinorelbine tartrate soft capsule adjuvant chemotherapy was administered. The response to chemotherapy and targeted therapy was SD in the first 5 cycles. However, the patient developed new brain metastases due to delayed brain radiotherapy after the 6th cycle of therapy. The patient is currently continuing to receive anlotinib hydrochloride combined with vinorelbine maintenance treatment. Our treatment significantly reduced the primary lesion in the leg and distant metastases in the lung and lymph node of the patient, indicating that chemoradiotherapy, targeted therapy and early brain radiotherapy may be efficacious in treating lung and brain metastases from thigh SC with well tolerated toxicity. The subsequent outcome of the brain lesions still needs further observation.

CONCLUSION

SC is a very rare and aggressive malignant tumor. Here, we treated a case of SC originating from the lower extremity, which had initially been misdiagnosed as an abscess with incision and drainage, and obtained a relatively satisfactory outcome. In clinical practice, it is necessary to pay attention to the differential diagnosis in order to avoid misdiagnosis and missed diagnosis. Although, there is currently no better treatment, it is clear that early and accurate diagnosis and removal of the lesion could benefit these patients. Patients with brain metastases should receive early radiotherapy. The lack of in-depth experience necessitates further exploration of novel and effective treatment strategies for sebaceous adenocarcinoma, including radiotherapy and targeted therapy.

ACKNOWLEDGEMENTS

The authors thank the patient for permitting them to use his data to complete this article.

FOOTNOTES

Author contributions: Wei XL and Zhou H designed and drafted the work; Liu Q and Zeng QL revised it, all authors issued final approval for the version to be submitted.

Informed consent statement: Informed written consent was obtained from the patient for publication of this report and any accompanying images.

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 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 noncommercial. See: https://creativecommons.org/Licenses/by-nc/4.0/

Country/Territory of origin: China

ORCID number: Xiao-Lin Wei 0000-0002-9097-3855; Qing Liu 0000-0002-9430-8238; Qiang-Lin Zeng 0000-0002-1035-6911; Hui Zhou 0000-0003-0716-4174.

S-Editor: Liu JH L-Editor: Webster JR P-Editor: Liu JH

REFERENCES

- Dasgupta T, Wilson LD, Yu JB. A retrospective review of 1349 cases of sebaceous carcinoma. Cancer 2009; 115: 158-165 [PMID: 18988294 DOI: 10.1002/cncr.23952]
- Rauch S, Masshoff W. [Sialoma resembling sebaceous gland]. Frankf Z Pathol 1959; 69: 513-525 [PMID: 13739789]
- C S, P M, J SB, J B. Sebaceous carcinoma of the chest wall: A case report. Radiol Case Rep 2021; 16: 1870-1873 [PMID: 34093933 DOI: 10.1016/j.radcr.2021.04.060]
- 4 Lee DW, Kwak SH, Kim JH, Byeon JY, Lee HJ, Choi HJ. Sebaceous carcinoma arising from sebaceoma. Arch Craniofac Surg 2021; 22: 126-130 [PMID: 33957741 DOI: 10.7181/acfs.2021.00059]
- 5 Khmou M, Laadam K, Cherradi N. Parotid gland, an exceptional localization of sebaceous carcinoma: case report. BMC Clin Pathol 2016; 16: 10 [PMID: 27279799 DOI: 10.1186/s12907-016-0031-y]
- 6 Walsh MD, Jayasekara H, Huang A, Winship IM, Buchanan DD. Clinico-pathological predictors of mismatch repair deficiency in sebaceous neoplasia: A large case series from a single Australian private pathology service. Australas J Dermatol 2019; 60: 126-133 [PMID: 30506759 DOI: 10.1111/ajd.12958]
- Marnouche el A, Maghous A, Kadiri S, Berhili S, Touil A, Kettani F, Majjaoui S, Elkacemi H, Kebdani T, Benjaafar N. Sebaceous carcinoma of the parotid gland: a case report and review of the literature. J Med Case Rep 2016; 10: 174 [PMID: 27295996 DOI: 10.1186/s13256-016-0946-z]
- Park H, Choi SG. Primary sebaceous carcinoma of lacrimal gland: A case report and review of literature. World J Clin Cases 2018; 6: 1194-1198 [PMID: 30613681 DOI: 10.12998/wjcc.v6.i16.1194]

4592



- Cicinelli MV, Kaliki S. Ocular sebaceous gland carcinoma: an update of the literature. Int Ophthalmol 2019; 39: 1187-1197 [PMID: 29696467 DOI: 10.1007/s10792-018-0925-z]
- 10 Kawagishi S, Kanzaki R, Taniguchi S, Kimura K, Kimura T, Takabatake H, Morii E, Inoue M, Shintani Y. A case of repeat resection for recurrent pulmonary metastasis from sebaceous gland carcinoma. Surg Case Rep 2020; 6: 206 [PMID: 32785813 DOI: 10.1186/s40792-020-00947-1]
- 11 Chakravarti N, El-Naggar AK, Lotan R, Anderson J, Diwan AH, Saadati HG, Diba R, Prieto VG, Esmaeli B. Expression of retinoid receptors in sebaceous cell carcinoma. J Cutan Pathol 2006; 33: 10-17 [PMID: 16441406 DOI: 10.1111/j.0303-6987.2006.00396.x
- Xu Y, Li F, Jia R, Fan X. Updates on the clinical diagnosis and management of ocular sebaceous carcinoma: a brief review of the literature. Onco Targets Ther 2018; 11: 3713-3720 [PMID: 29983580 DOI: 10.2147/OTT.S162073]
- Erovic BM, Al Habeeb A, Harris L, Goldstein DP, Kim D, Ghazarian D, Irish JC. Identification of novel target proteins in sebaceous gland carcinoma. Head Neck 2013; 35: 642-648 [PMID: 22715107 DOI: 10.1002/hed.23021]
- Sa HS, Tetzlaff MT, Esmaeli B. Predictors of Local Recurrence for Eyelid Sebaceous Carcinoma: Questionable Value of Routine Conjunctival Map Biopsies for Detection of Pagetoid Spread. Ophthalmic Plast Reconstr Surg 2019; 35: 419-425 [PMID: 30865067 DOI: 10.1097/IOP.0000000000001343]
- Kodali S, Tipirneni E, Gibson PC, Cook D, Verschraegen C, Lane KA. Carboplatin and Pembrolizumab Chemoimmunotherapy Achieves Remission in Recurrent, Metastatic Sebaceous Carcinoma. Ophthalmic Plast Reconstr Surg 2018; 34: e149-e151 [PMID: 29979269 DOI: 10.1097/IOP.000000000001164]
- 16 Bowen RC, Lawson BM, Jody NM, Potter HD, Lucarelli MJ. The Programmed Death Pathway in Ocular Adnexal Sebaceous Carcinoma. Ophthalmic Plast Reconstr Surg 2020; 36: 74-79 [PMID: 31593039 DOI: 10.1097/IOP.0000000000001472]

4593



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

