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Microcystic adnexal carcinoma misdiagnosed as a “recurrent epidermal cyst”: A case report

Si-Xuan Yang, Yan Mou, Shu Wang, Xin Hu, Fu-Qiu Li

Abstract

BACKGROUND
Microcystic adnexal carcinoma (MAC) is a rare malignant cutaneous adnexal neoplasm, often presenting as a flesh-colored and slow-growing indurated plaque or cystic nodule in the mid-facial region. Its characteristic indolent presentation usually leads to initial misdiagnosis, resulting in tumor mismanagement and added morbidity due to increased propensity for local invasion.

CASE SUMMARY
A 63-year-old Chinese male patient with a long-term history of excessive ultraviolet irradiation had received two surgeries for an “epidermal cyst” on his glabella and was presented to our hospital’s Dermatology Department for further diagnosis and therapy of the lesion on his glabella. One month ago, his two 7 mm × 7 mm subcutaneous nodules were diagnosed as “recurrent epidermal cysts”, and he underwent local excision surgery. Additionally, he has post medical history of surgery for right clear cell renal carcinoma. According to his biopsy, the patient was diagnosed as MAC in our hospital, and a tumor remnant was found on his wound. He then underwent wide local excision to achieve negative margins and reconstruction of full-thickness flap transplantation for tissue coverage. He remained tumor-free after six months of follow-up.

CONCLUSION
This case highlights the importance of MAC’s possible pathogenic factor of excessive ultraviolet exposure, its differential diagnosis to avoid misdiagnosis and mismanagement to adverse prognosis, the patient’s particular medical history of clear cell renal carcinoma, the alert for any tumor recurrence in older patients, and
his uncommon multiple nodules mess consisting of two 7 mm × 7 mm subcutaneous nodules, that will enrich the existing knowledge of MAC’s clinical features.

**Key Words:** Microcystic adnexal carcinoma; Recurrent epidermal cyst; Differential diagnosis; Clear cell renal carcinoma; Excessive ultraviolet radiation; Case report

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**Core Tip:** Microcystic adnexal carcinoma is an uncommon skin malignant tumor with a high misdiagnosis rate. We present a rare case of multiple nodules of microcystic adnexal carcinoma misdiagnosed as a “recurrent epidermal cyst.” The patient has a long-term history of excessive ultraviolet irradiation.

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**INTRODUCTION**

Microcystic adnexal carcinoma (MAC) is a rare cutaneous adnexal neoplasm that typically manifests as a single lesion in the mid-facial region[1,2]. It was first described by Goldstein et al[1] in 1982. Highly recurrent MAC often has deep, local infiltration and perineural invasion; however, regional lymph node or distant metastasis rarely occurs[3]. MAC has a high rate of misdiagnosis as an epidermal cyst due to its indolent features and lack of dermatologists’ familiarity[1,2]. We report a case of MAC misdiagnosed as a recurrent epidermal cyst occurring in a sun-exposed area, which was a mess consisting of two 7 mm × 7 mm subcutaneous nodules, rarely reported before. This study highlights the significance of the MAC’s differential diagnosis, its possible pathogenic factor of excessive ultraviolet exposure, and the patient’s particular medical history of right clear cell renal carcinoma. Besides, this case can help improve our wariness of seemingly innocent lesions that may suddenly appear in the head and neck region, especially with a history of excessive ultraviolet exposure or other malignant tumors[4].

**CASE PRESENTATION**

**Chief complaints**

A 63-year-old Chinese male patient was presented with complaints of a slowly growing mass on his glabella for 20 years. He had two excision surgeries, one ten years ago and one a month ago. The histopathological slice made in the local hospital a month ago reveals deep local infiltration and intramuscular invasion.

**History of present illness**

This lesion first appeared 20 years ago as a painless, skin-colored nodule on the glabella, with no signs of pruritus or numbness. Ten years ago, the lesion was diagnosed as an “epidermal cyst” and was removed in the local hospital without histopathological examination. Two new flesh-colored nodules emerged in the same place as the first lesion nine years ago. One month ago, the patient was diagnosed with a “recurrent epidermal cyst” in a local hospital (Figure 1). Its lesion was presented as a skin-colored mass on his glabella that was progressively growing, immovable and firm and comprised two 7 mm × 7 mm subcutaneous nodules. Subsequently, he underwent a local excision surgery. Biopsy revealed deep local infiltration and intramuscular invasion. He was then presented to our hospital for further diagnosis and therapy.

**History of past illness**

The patient had a medical history of right clear cell renal carcinoma, was surgically treated nine years ago, had not recurred, and denied any history of postoperative radiotherapy or chemotherapy.

**Personal and family history**

The patient had a long-term history of excessive ultraviolet irradiation. He reported an occupational history of working as a truck driver for more than 40 years, frequently working in a sun-exposed
Initial clinical examination of the microcystic adnexal carcinoma in the local hospital. The lesion revealed a skin-colored mass consisting of two 7 mm × 7 mm subcutaneous nodules on the glabella.

**Physical examination**
Physical examination on admission showed an approximately 10 mm × 10 mm red papule on his glabella. No paresthesia of neck nodes was noted.

**Laboratory examinations**
The histological and immunohistochemical patterns of the patient were consistent with MAC.

**Imaging examinations**
None of the imaging examinations revealed anomaly.

**FINAL DIAGNOSIS**
This patient was diagnosed as MAC on glabella with positive margins.

**TREATMENT**
The patient underwent wide local excision to achieve negative margins and reconstruction of full-thickness flap transplantation for tissue coverage. Perineural invasion, regional lymph node, and distant metastasis were not discussed.

**OUTCOME AND FOLLOW-UP**
The operation and postoperative clinical course went uneventful, and the patient was discharged. Postoperative histological and immunohistochemical results confirmed MAC diagnosis and showed negative resection margins. Three months after the surgery, an examination in our hospital showed that the 30 mm × 35 mm surgical incision healed well without recurrence (Figure 2). Patient satisfaction with reconstruction was noted after three months on his next visit.

**DISCUSSION**
The MAC etiopathology remains unclear. Ultraviolet and therapeutic radiations have been implicated in their possible pathogenic factors[5-7]. The patient's occupation is unique to our case, coupled with his medical history of clear cell renal carcinoma[4]. He reported a history of excessive sun exposure, averaging no less than six hours a day for more than 40 years, without any extra protection. This
markers. The Food and Drug Administration has authorized one for subgroups of breast cancer patients.

CDK6 inhibitors have been discovered and are being researched for cancers that display these molecular changes. In a 68-year-old man's metastatic MAC, CDK4 and CDK6 are diagnosed as therapeutic targets for the disease. Chen et al. followed up with our patient to observe his prognosis due to the indolent course of this tumor, with cases of recurrence reported up to 30 years after initial treatment.

Postoperative histological analysis showed he obtained negative margins. However, we will continue to follow up with our patient to observe his prognosis due to the indolent course of this tumor, with cases of recurrence reported up to 30 years after initial treatment.

First accepted, recurrence rates have been found to be greater in patients who received MMS compared to routine surgical excision due to poorly defined clinical margins and a tendency for perineural invasion. Avoiding excessive UV irradiation may be one of the MAC's precautionary measures.

MAC is a rare cutaneous malignancy that often occurs in the mid-facial area, presenting as a slow-growing, flesh-colored, or whitish nodule. Its characteristic indolent presentation usually leads to initial misdiagnosis, resulting in tumor mismanagement and added morbidity due to increased propensity for local invasion. Its differential diagnoses include epidermal cyst, desmoplastic trichoepithelioma (DTE), morpheaform basal cell carcinoma (MBCC), squamous cell carcinoma, syringoma, and syringoid eccrine carcinoma (SEC). MAC's typical microscopic features are located inside the dermis in the histopathology examination. They are defined by a diffusely infiltrative growth with the invasion of the subcutis and deeper tissues. In a desmoplastic stroma, they develop in cords and strands. Keratocysts and dystrophic calcifications are common on the surface. Duct distinction is a bonus feature that comes in variable degrees. There is very little cytologic atypia. Perineural nerve and skeletal muscle invasion are almost always present.

The ductal differentiation of MAC can help distinguish it from other benign adnexal neoplasms such as epidermal cyst, DTE, and syringoma, which often require no treatment. For example, the small keratin-filled cysts structure of MAC can help differentiate this from SEC. A full-thickness biopsy, including incisional biopsies, punch biopsies, and excisional biopsies, is required to avoid missing its deep infiltrative nature. We must appreciate the value of a prompt histological evaluation. A medical facility's standard practice of performing histology on all biological materials (including benign skin lesions) can aid in early identification and reduced morbidity.

Avoiding excessive UV irradiation may be one of the MAC’s precautionary measures. Immunohistochemistry can serve as a supplement for distinguishing MAC from other neoplasms. However, none by itself is sensitive and specific enough for the diagnosis of MAC. Carcinoembryonic antigen is a marker used to demonstrate ductal differentiation of MAC. CK20 positivity has been found to be strongly predictive of DTE, whereas it is usually negative in MBCC and MAC. CK19 positivity suggests MAC and not DTE. CD34 reveals focal stromal cell positivity in DTE, while the stromal cells in MAC and MBCC are often negative. BerEP4 can be used to differentiate MAC (BerEP4 negative) from MBCC and DTE (both BerEP4 positive). Surgery is still the first-line treatment for this neoplasm, which mainly includes Mohs micrographic surgery (MMS) and wide local excision (WLE). MMS has been compared to routine surgical excision due to poorly defined clinical margins and a tendency for perineural invasion. Although wide local excision was first accepted, recurrence rates have been found to be greater in patients who received MMS. Our patient opted for WLE due to financial constraints, as MMS was much more expensive than WLE. Postoperative histological analysis showed he obtained negative margins. However, we will continue to follow up with our patient to observe his prognosis due to the indolent course of this tumor, with cases of recurrence reported up to 30 years after initial treatment.

Recently, some research indicated that distinct molecular markers for MAC might be potential diagnostic and therapeutic targets for the disease. Chen et al. discovered TP53 mutations as well as chromosomal deletions of CDKN2A and CDKN2B in a 68-year-old man's metastatic MAC. CDK4 and CDK6 inhibitors have been discovered and are being researched for cancers that display these molecular markers. The Food and Drug Administration has authorized one for subgroups of breast cancer patients. Yu et al. investigated four calcium signaling pathway genes, including CACNA1S, RYR1,
CONCLUSION

MAC is an uncommon cutaneous adnexal malignancy, often showing as a flesh-colored and indolent lesion in the mid-facial area, leading to initial misdiagnosis and mismanagement to add morbidity. Dermatologists should raise the awareness of MAC and its differential diagnoses and be alert for any tumor recurrence or double cancers in elderly patients with predisposing factors. The link between renal cell carcinoma and MAC might be a coincidence that needs further investigation. Moreover, this study of rare multiple nodule lesions can enrich the knowledge of MAC's clinical features.

FOOTNOTES

Author contributions: Yang SX performed research and wrote the paper; Mou Y, Wang S, Hu X; and Li FQ contributed critical revision of the manuscript for important intellectual content; all authors have read and approve the final manuscript.

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