Case Report
Successful Management of Metastatic Eccrine Porocarcinoma

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Eccrine porocarcinoma (EPC) is a rare tumor. It develops from the intraepidermal ductal portion of the eccrine sweat gland. Metastatic disease is rare. We report a new case of metastatic eccrine porocarcinoma with a successful management and a good response to docetaxel. A 54-year-old man was admitted with a mass in the breast. Biopsy specimen found carcinomatous tumor proliferation with ulcerated surface, large anastomosing ducts that contained clear cell nests (Figure 1). Cellular atypia were noted, with eosinophilic cytoplasm and round to oval nuclei (Figure 2). The tumor showed positive immunoreactivity for ACE and negative to anti-PS-100. Resection was performed. One year later, he presented with local and metastatic recurrences. The patient had received 3 cycles of cisplatin and 5-fluorouracil; he progressed with increase in mass size and number of lung lesions. He has been undergoing three cycles of docetaxel with complete response in the lung and regression of the breast mass. The mass was excised.

3. Discussion

Eccrine porocarcinoma is a rare tumor [1]. It accounts for 0.005–0.01% of all cutaneous tumors [3]. It occurs in the elderly, usually after 60 years [1, 2, 6]. It can be primary or occur on an evolving benign eccrine poroma [1]. The predilection site is the lower extremities (55%), followed by the head and scalp (20%), upper limbs (12%), and trunk and abdomen (10%) [7]. It has no clinical features. It can appear as solitary plaque or nodular lesion, with ulcerated or hemorrhagic surface [1].

The differential diagnosis with other malignant tumors of the skin is very complex, especially with seborrheic keratosis,
Bowen tumor, multifocal basal cell carcinoma, lymphoma, achromic melanoma, pyogenic granuloma, wart, and nevus.

The classic histological description of eccrine porocarcinoma is an acanthotic epithelial proliferation that contained clear cell nests with radial extension of polygonal nuclei, eosinophilic cytoplasm, and rudimentary ductal structures with many intraepidermal atypia [6]. The diagnosis is based on morphology rather than immunohistochemistry, there may be an expression of CEA and EMA; PS-100 is negative. These markers confer variable results and do not confirm the diagnosis [8].

Metastasis occurs in about 20% of cases with a very poor outlook and high mortality. They occurred preferentially in lymph nodes, lung, retroperitoneum, and liver [8].

The main treatment for localized form is surgical excision with histologically clear margins, [9, 10]; it’s the treatment of choice. Electrocoagulation and radiotherapy can be performed but with high risk of local recurrence. In the metastatic eccrine porocarcinoma, treatment with tamoxifen or retinoid may have led to remissions of several months [6]. The chemotherapy and radiotherapy are ineffective with uncertain benefit [7].

Single agent docetaxel have been used in metastatic eccrine porocarcinoma with symptomatic and radiological response lasting several months. It was well tolerated [11].

Our patient had complete response in the lung and regression of the breast mass after three cycles of docetaxel.

Docetaxel should be considered in platinum resistant or refractory patients with metastatic eccrine porocarcinoma.

4. Conclusion
Porocarcinoma is a very rare entity and poorly understood. The clinical diagnosis is very evocative. The standard pathological diagnosis establishes the diagnosis easily. Immunohistochemistry is useful in difficult cases. Treated early, eccrine porocarcinoma is curable by wide excision. In the metastatic phase, it has little or no sensitivity to anticancer treatment. Docetaxel should be considered in platinum resistant or refractory patients with metastatic eccrine porocarcinoma.

Consent
Written informed consent was obtained from the patient for publication of this case report and any accompanying images. A copy of the written consent is available for review by the Editor-in-Chief of this journal.

Conflict of Interests
The authors report no conflicts of interests. The authors alone are responsible for the content and writing of the paper.

Authors’ Contributions
All authors have contributed to this paper. Iman Aaribi and Amina Mohtaram were in charge of the overall care of the patient, reviewed the literature and drafted the manuscript, and revised it critically for important intellectual content. Amina Mohtaram and Meryam Ben Ameur El Youbi carried out the literature review. Basma El Khannoussi and Jinane Kharmoum participated in the histological diagnosis of the case. Basma El Khannoussi, Hind Mrabti, and Hassan Errrihani carried out the conception of the case and revised it critically for important intellectual content. All authors read and approved the final paper.
References


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