A Case of Sebaceous Carcinoma Mimicking a Giant Pyogenic Granuloma

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Keywords: Sebaceous carcinoma Mimicking Granuloma Pyogenicum; sebaceous carcinoma on the arm; extraocular sebaceous carcinoma; Sebaceous carcinoma

Sebaceous carcinoma (SC) is uncommon disease that is often misdiagnosed as a benign lesion, but has an aggressive clinical behavior with a rate of distant metastasis of nearly 60% [1]. There are two main variants on the basis of their location; ocular and extraocular SC. Extraocular SC accounts for only about 25% of all SC, and mostly involves the head and neck region, although it may occur at any site that contains sebaceous glands, including the trunk, extremities, and the external genitalia [2, 3]. To our knowledge, SC on the extremities is very rare. Here in, we report a case of sebaceous carcinoma on the left arm of a Korean woman.

A 96-year-old woman presented with a painful, solitary, 3x3cm-sized, well-demarcated, flat-topped, reddish, erosive mass on the left arm for 5 years (Fig. 1). The lesion was on the site where she strapped watch, and had been gradually grown. It tended to bleed easily.

Histopathology revealed epidermal necrosis and irregular, variable-sized, tumor nests in the dermis (Fig. 2A). The dermal epithelial tumor cell nests are composed of pleomorphic foamy-cytoplasmic cells as well as atypical cells with frequent mitosis (Fig. 2B). From immunochemical staining, consequently Epithelial Membrane Antigen(EMA) showed transmembrane positivity of the sebaceous cells.

A final diagnosis of SC was made. We referred her to the department of oncology, and the CT scan for systemic evaluation was done. The chest CT showed axillary lymph node metastasis. She refused colonoscopy for evaluating Muir-Torre syndrome because of her old age. The lesion was removed by doing palliative operation for bleeding control. She came to follow-up visits for a month. We advised her to make a visit when she feels uncomfortable.

SC is a malignant tumor derived from the adnexal epithelium of sebaceous glands. The clinical presentation of extraocular SC is non-specific, but often described as firm, yellow-pink nodules that grow slowly, and 30% of cases present a hemorrhagic surface. The morphology of these tumors is varied as basal cell cancer, squamous cell cancer, granuloma pyogenicum, or neuroendocrine cancer, etc [2]. This diversity may be explained by the common embryologic origin of the folliculo-sebaceous-apocrine unit being recapitulated in their neoplasms, as well [2].

Extraocular SC is rare. To date, it has been reported in the following area: the external auditory canal, nose, oral mucosa, salivary glands, scalp, parotid, larynx and pharynx, extremities, palmoplantar lesion, breasts, lungs, anal margin, penis, vulva and cervix [3]. The pathogenesis of this disease is unclear, but it is associates with Muir-Torre syndrome, Human papillomavirus.
diuretics and radiotherapy. The gold standards of diagnosis is a biopsy of the lesion and surgery is the most efficient treatment, with margins of 5–6mm [3]. Rao et al. suggested characteristics associated with poor prognosis:

Histopathologically vascular, lymphatic and orbital invasion; involvement of both eyelids; low differentiation; multicentric origin; over 6 months, over 10mm; pagetoid invasion and infiltrative pattern, etc [3].

To our knowledge, only 4 cases of SC have been reported on the arm [1, 2, 4, 5]. This case was described for providing as rare case with arising on the left arm and resembling a giant pyogenic granuloma.

References