CASE REPORT

Clouston syndrome associated with eccrine syringofibroadenoma

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Abstract: Eccrine syringofibroadenoma is a rare benign neoplasia derived from acrosyryngium cells of the eccrine sudoriferous glands. It affects the extremities of elderly individuals as solitary tumors, or may also present as multiple lesions. There are controversies about the pathogenesis and differentiation of the tumor. Eccrine syringofibroadenoma has been associated with subjacent conditions, such as for example, hypohidrotic ectodermal dysplasias. The authors describe a case report of a patient with Clouston Syndrome, who presented papules and nodules in extremities, clinically and histologically compatible with eccrine syringofibroadenoma. There are only three cases described in the literature, associated with Clouston Syndrome, and this is the fourth case.

Keywords: Dermatology; Ectodermal dysplasia; Keratoderma, palmoplantar

INTRODUCTION

Congenital hypohidrotic ectodermal dysplasia, also known as Clouston Syndrome, is a rare autosomal dominant genodermatosis characterized by nail dystrophy, alopecia and palmoplantar hyperkeratosis.1

Eccrine syringofibroadenoma (ESFA) is a rare neoplasm, that originates from acrosyryngium cells of the eccrine sudoriferous glands. It was described in 1963 by Mascaro, being classified as a hamartoma. Clinical presentation is variable, non-specific, varying from single lesions on extremities of the elderly to papules and nodules.2

When multiple, ESFA may be associated with diabetes mellitus or hypohidrotic ectodermal dysplasias. Clouston syndrome associated with ESFA was described in only 3 previous cases.3,4 Therefore the authors’ proposal is to describe a clinical case of ESFA in a patient carrying Clouston syndrome.

CASE REPORT

Female patient, 41 years old, of mixed race, from Tremedal, Bahia, came to the dermatology ambulatory reporting that since birth she had not had hair anywhere in her body besides nail dystrophy and palmoplantar hyperkeratosis (Figures 1 and 2). She denied previous history of cutaneous neoplasms, dental abnormalities, intolerance to heat or other significant medical problems and also informed that two of her siblings presented similar symptoms.

She reports that for 10 years coalescent papules and nodules of pinkish color, verrucous aspect appeared on her feet and hands, growing in number and size with time. She denied pain, burning sensation or bleeding at the site of the cutaneous lesions.

During physical examination the presence of coalescent pinkish papules was noticed, forming plaques with cobblestone aspect on the feet, besides alopecia and nail dystrophy. Laboratory exams were normal. The possible differential diagnoses of cutaneous lesions included diffuse eccrine poromatosis, plane warts, Clouston Syndrome, pachyonychia congenita and other forms of ectodermal dysplasias (Figure 3).

An incisional biopsy of the right foot lesion was performed, which revealed thin cords of anastomosed epithelial cells in continuity with the epidermis. The cords were composed of round and oval nucleated cells. Luminal structures which varied in size were also found, whose walls contained a single layer of cells. These findings were compatible with the diagnosis of ESFA (Figure 4). PCR for HPV 10 was negative.
DISCUSSION

ESFA was described in 1963 by Mascaro as a rare benign cutaneous disorder with eccrine differentiation. It is characterized by the presence of anastomoses of thin epithelial cell cords embedded in a fibrovascular stroma. Clinical presentation varies from solitary lesions to multiple papules, nodules and plaques. Although it occurs more frequently between the seventh and eighth decades of life, it can occur in younger patients. Complications include an association with Squamous Cell Carcinoma and malignant transformation into eccrine syringofibrocarcinoma. There are several etiological factors associated with the development of syringofibroadenoma, among them the HPV type 10. This type of tumor may appear in patients with Clouston syndrome, but it is a rare event, with only 3 cases described in the literature.
Ectodermal dysplasias are heterogeneous, hereditary disorders, characterized by hindered development of epidermal appendages, which involve one or more of the following tissues: hair, teeth, nails or sweat glands. More than 170 syndromes have been characterized; of such, 30 were evaluated at the molecular level with identification of the causing gene. Clouston syndrome is an ectodermal dysplasia caused by mutations in the connexin gene, autosomal dominant, with no sex differences. The clinical characteristics of this syndrome include nail dystrophy, alopecia and palmoplantar hyperkeratosis. Although the association of this syndrome with ESFA has been described, it is rare.

In a study with 45 individuals affected by Clouston syndrome, none of them was identified as presenting ESFA, emphasizing the relative rarity of this clinical phenomenon.

In the present case, the exuberance and rarity of cutaneous lesions were the reasons for its description.

REFERENCES


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