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ABSTRACT

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CASE REPORT

A 93-year-old female presented with painless grouped cutaneous nodules and tumors, ranging from 0.5–3 cm in diameter (Figure 1), which had slowly developed over the last five years. Examination revealed multiple firm, non-tender lobulated nodular lesions, varying from flesh-colored to erythematous, symmetrically distributed over the dorsal face of all toes and the dorsal face of both feet. A 6-mm skin punch biopsy was performed and showed poorly circumscribed myxoid dermal nodules containing a few of bland spindle-cells (Figure 2A–B), mucin deposits (Figure 2C) and small blood vessels (Figure 2D), without inflammatory cell infiltrate. These findings were consistent with the diagnosis of superficial angiomyxoma. Tumor resection was not proposed because of lesions extension and no other treatment was performed.

DISCUSSION

Superficial angiomyxoma is a rare benign cutaneous tumor that affects patients of all ages, with a peak incidence in 4th and 5th decades, and has a slight predilection for males [1, 2]. First reported by Allen et al. in 1988 it is usually reported as a solitary skin nodule, papule or polypoid lesion under 5 cm in diameter, most commonly presenting on the trunk, followed by the lower limbs and, finally, the head, neck and the upper limbs.

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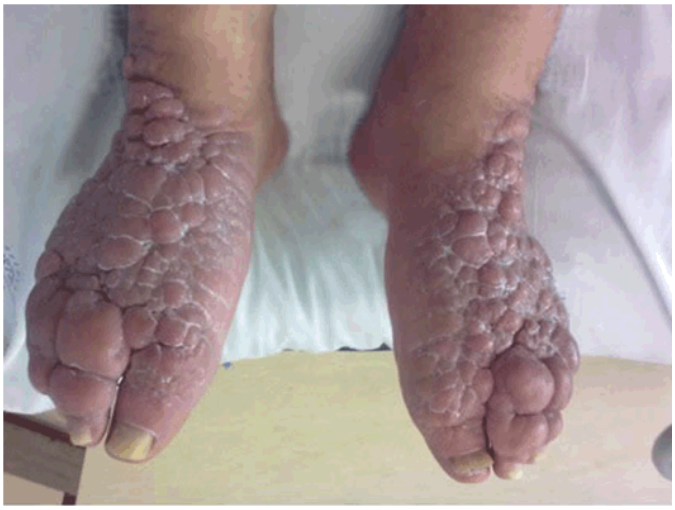

Figure 1: Multiple grouped skin tumors on the feet.

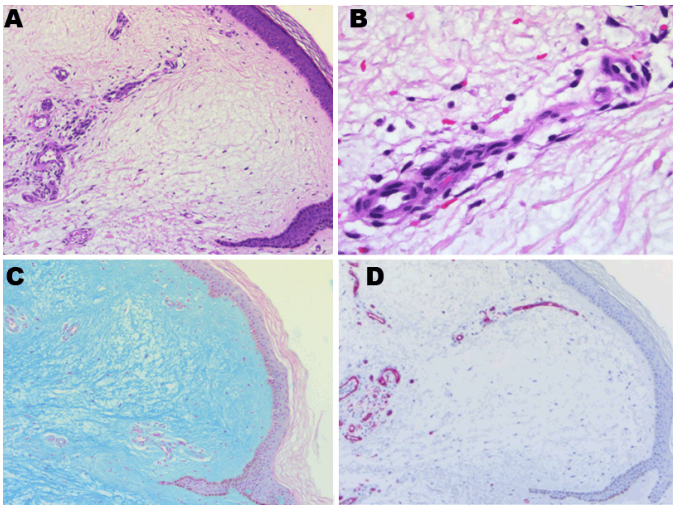

Figure 2: (A, B) Histological aspects of dermal mucin with scanty fibroblasts and blood vessels (H&E stain, A: x100 and B: x400), (C) Alcian blue stain highlights the mucin deposit (magnification: x100), (D) Immunohistochemical study: The blood vessels are in red with CD31 (magnification: x100).

Superficial angiomyxoma with unusual location such as the oral cavity mucosa and external genitalia and subungual neoplasms have also been reported [2, 3].

Histologically, lesions are described as well circumscribed dermal tumors with an abundant mucinous stroma, spindle-shaped and/or stellate cells and a prominent vascular pattern with multiple small to medium-sized thin-walled vessels. A sparse to moderate mixed inflammatory infiltrate is usually present within the myxoid matrix.

The myxomas described in the Carney complex are very similar to superficial angiomyxomas [4]. Their recognition is important because it can be the first manifestation of the syndrome. The patient had neither lentigines on the face, nor signs of endocrine overactivity.

Treatment consists of surgical excision. We did not find in literature any alternative therapy to surgical resection. These tumors are not known to metastasize. However, they have a 30–40% local recurrence rate mainly after incomplete excision [1, 2].

CONCLUSION

Multiple superficial angiomyxoma is a very rare occurrence. To the best of our knowledge, there is no similar case, as the one reported here, described in the English literature. The dimension of the tumors and their symmetrical distribution on the lower limbs make this case a unique superficial angiomyxoma.

Keywords: Angiomyxoma, Cutaneous tumor, Superficial angiomyxoma

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Author Contributions

P. Gaspar da Costa – Substantial contributions to conception and design, Acquisition of data, Analysis and interpretation of data, Drafting the article, Revising it critically for important intellectual content, Final approval of the version to be published

L. Lêdo – Analysis and interpretation of data, Revising it critically for important intellectual content, Final approval of the version to be published

S. Braz – Analysis and interpretation of data, Revising it critically for important intellectual content, Final approval of the version to be published

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L. Soares-de-Almeida – Analysis and interpretation of data, Revising it critically for important intellectual content, Final approval of the version to be published

J. Meneses Santos – Analysis and interpretation of data, Revising it critically for important intellectual content, Final approval of the version to be published

Guarantor

The corresponding author is the guarantor of submission.

Conflict of Interest

Authors declare no conflict of interest.

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