

Control of ochre dermatitis with aminaphtone in an adolescent

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ABSTRACT

The aim of this manuscript is to report the case of a 22-year-old adolescent who presented with brownish patches on the skin of her lower legs persistent since the age of eleven years. She was treated by a dermatologist since the age of twelve years with a clinical diagnosis of ochre dermatitis confirmed by a biopsy. The patient was treated for two years without a success and was sent to a vascular surgeon at fourteen years of age. The diagnosis was confirmed, and the venous duplex scan discarded the possibility of a macrocirculation abnormality. The patient was treated with aminaphtone with the normalization of the skin for two years, after which the patches returned and were controlled again with the same medication. As ochre dermatitis may be associated with capillary fragility, the use of aminaphtone is a therapeutic option.

Key words: Ochre Dermatitis; Hyperpigmentation; Capillary Fragility; Aminaphtone; Adolescent

INTRODUCTION

Chronic venous disease progresses with important changes to the skin, such as edema, dermatofibrosis, hyperpigmentation, and ulcers [1]. Stasis dermatitis is a common occurrence in these patients. However, the condition occurs at an advanced age and is caused by venous hypertension resulting from a backflow due to incompetent venous valves, destroyed valves, or an obstruction in the venous system [2].

Dermatofibrosis is another finding in chronic venous disease, in which various histological abnormalities are found. Septal fibrosis, lipomembranous fat necrosis, prominent vascular changes due to stasis, and erythrocyte extravasation are in the histopathological definition of dermatofibrosis. Iron deposition in the

subcutaneous tissue is a tactile finding of this chronic condition [3,4].

In some patients, ochre dermatitis is not associated with chronic venous disease or abnormal venous macrocirculation, which is detectable with venous Doppler [5]. Authors of a study involving children (< 18 years of age) found no inflammatory process or hyperpigmentation [4], suggesting that causes other than chronic venous disease may be responsible for ochre dermatitis in patients with no other evident clinical abnormalities.

The aim of this manuscript was to report a case of ochre dermatitis in an adolescent, in whom a good temporary resolution was achieved with the use of aminaphtone. The condition returned after two

How to cite this article: Pereira de Godoy LM, Pereira de Godoy AC, Pereira de Godoy HJ, Pereira de Godoy JM. Control of ochre dermatitis with aminaphtone in an adolescent. Our Dermatol Online. 2023;14(3):301-303.

Submission: 02.02.2023; Acceptance: 29.04.2023

DOI: 10.7241/ourd.20233.15

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Figure 1: Distal third of the leg showing the biopsy site and areas of hyperpigmentation.

years, which was once again controlled with this medication.

CASE REPORT

A twelve-year-old female patient sought dermatological treatment for brownish patches on her lower limbs. A skin biopsy revealed ochre dermatitis (Fig. 1). At fourteen years of age, the patient was sent to a vascular surgeon, who confirmed the diagnosis of ochre dermatitis. The patient was asymptomatic. Deep and superficial venous duplex scans were performed, which revealed no abnormalities in the venous system. Aminaphtone was prescribed, which led to the cessation of new patches and the continual fading of the existing patches until their complete disappearance. At 16, 19, and 22 years of age, the patient returned reporting that the brownish patches returned and also complained of social discomfort due to the unpleasant esthetic appearance of the hyperpigmentation. Aminaphtone was prescribed the second time and control of the patches was achieved. This study received approval from the Human Research Ethics Committee of the São José do Rio Preto School of Medicine, SP, Brazil #3.764.416.

DISCUSSION

The paper reports control of ochre dermatitis in an adolescent and the long-term evolution of the treatment. Ochre dermatitis is associated with chronic venous hypertension, yet there is a report of an association with probable capillary fragility [3]. The most striking occurrence in the present case was the emergence of ochre dermatitis in a patient beginning at twenty-two years of age.

The patient began treatment with a dermatologist, yet without a satisfactory result, and at twelve years of age, was sent to the vascular surgery service of the university. During the initial clinical evaluation, the occurrence of ochre dermatitis was confirmed, along with some isolated telangiectasias, fitting Cl of the CEAP classification. Venous Doppler revealed no abnormalities in the superficial or deep venous system, discarding the possibility of chronic venous hypertension. This finding lent support to the hypothesis of capillary fragility as the cause of the initial purpura that progressed to hyperpigmentation.

Another aspect to consider in the present case is the more appropriate diagnosis between ochre dermatitis and stasis dermatitis. There was no venous hypertension in the present case to suggest stasis dermatitis. This is important because there are reports of ochre dermatitis in patients with and without evidence of chronic venous hypertension. Therefore, capillary fragility may be an aggravating factor in patients with chronic venous hypertension, and studies suggest that the presence of iron ions may be an aggravating agent of the inflammatory process.

With regard to the treatment of stasis dermatitis, there are some reports on therapeutic options, yet with no emphasis on the physiopathological hypothesis of capillary fragility. The use of aminaphtone has recently been described as a therapeutic option in cases of ochre dermatitis and small hemorrhages [6]. In the present study, hyperpigmentation was controlled with the use of aminaphtone for three to four years, followed by a recurrence, which suggests that yet treatment is not curative and only achieves temporary control. A further prescription of the drug enabled control of the new patches. Thus, aminaphtone was useful for treatment and may be administered again in cases of recurrence.

Aminaphtone was prescribed at a dose of 75 mg twice a day for two months, during which there was no emergence of new purpura, and there was a progressive reduction in pigmentation until complete elimination. Thus, there was a slow resolution of hyperpigmentation, with fading of 30% to 40% after two or three months, and a complete disappearance over time.

CONCLUSION

Ochre dermatitis may be associated with capillary fragility, and the use of aminaphtone is a therapeutic option in such cases.

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Consent

The examination of the patient was conducted according to the principles of the Declaration of Helsinki.

The authors certify that they have obtained all appropriate patient consent forms, in which the patients gave their consent for images and other clinical information to be included in the journal. The patients understand that their names and initials will not be published and due effort will be made to conceal their identity, but that anonymity cannot be guaranteed.

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Source of Support: This article has no funding source.

Conflict of Interest: The authors have no conflict of interest to declare.

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