Solitary purpuric plaque: clinical and dermoscopic evolution of lichen aureus

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ABSTRACT

Lichen aureus is a pigmented purpuric dermatosis that typically presents with the acute onset of a solitary, unilateral, purple to rust-yellow colored lichenoid patch or plaque on lower extremities. We presented a 53-year-old woman consulted for the management of asymptomatic lesions. The dermatological examination revealed a purpuric infiltrated placard on the anterior surface of the left leg, dermoscopy and skin biopsy confirmed diagnostic of lichen aureus. Lichen aureus is a rare entity whose diagnosis remains difficult from where the interest of the dermoscopy to retain the diagnosis.

Key words: Dermoscopy; Lichen aureus; Purpuric dermatosis

INTRODUCTION

Lichen aureus (LA) is a rare variant of persistent pigmented purpuric dermatitis (PPPD), and is characterized by the appearance of a solitary golden-yellow, lichenoid macule [1,2]. We report a clinical and dermoscopic evolutionary aspect of lichen aureus in our patient.

CASE REPORT

A 53-year-old woman with a history of diabetes who had been on insulin for 10 years, consulted for the management of asymptomatic leg-level lesions that had been evolving for 3 months. The dermatological examination revealed a purpuric infiltrated placard on the anterior surface of the left leg (Fig. 1). Dermoscopy showed a red blood cells, with whitish linear streaks, and erythematous-purplish fundus (Figs. 2 and 3). The skin biopsy showed slightly increased number of superficial vascular plexus vessels in the dermis, associated with dense perivascular inflammatory sheaths consisting mainly of lymphocytes accompanied by certain histiocytes. In places lymphocyte penetration of the wall of the capillary vessels by lymphocytes but without parietal necrosis (Figs. 4-6). In places, a slight extravasation of red blood cells in the interstitium around the vessels. Doppler ultrasound of the vessels of the lower limbs revealed a mediocalcasis of the fibular artery. Blood chemistry and full blood count results were normal. Based on these findings, we made a diagnosis of segmental Lichen aureus. The patient was treated with topical corticosteroid with improvement. Three months after the purplish erythematous appearance is replaced by a coppery brown color, the dermoscopy revealed a copper-red pigmentation background, more red blood cells than white streaks (Fig. 3).

DISCUSSION

The segmental lichen aureus is a “tattoo” of hemosiderin resulting from an altered local venous return, clinically, we have macules, an erythematous or purpuric, unilateral, solitary plaque. And is characterized histopathologically by no alteration of the epidermis, a lichenoid lymphocytic infiltrate
Figure 1: (a) The initial appearance of purpuric plaque. (B) After 3 months. (C) After 9 months.

Figure 2: Dermoscopy of initial appearance with erythematous-purplish background; (A) rosette; (B) red blood cells; (C) whitish linear streaks.

Figure 3: Dermoscopy of plaque after 3 months showed a copper-red pigmentation background, more red blood cells than white streaks.

Figure 4: Coloration HES G x 100 -> Infiltrate inflammatory of the papillary and reticular dermis superficial and medium.

Figure 5: HES G x 200 staining -> Mononuclear inflammatory infiltrates perivascular + discrete extravasation of red blood cells.

Figure 6: Perls G x 400 -> Perls positive heme deposits on the dermis.
and extravasated erythrocytes and hemosiderin in the dermis. Dermatoscopy showed a copper-red pigmentation background, with brownish networks of interconnected lines and rounded to oval red blood cells [3]. Zeballos et al. reported that LA showed four characteristic dermoscopic features: (i) brownish or coppery-red diffuse background coloration; (ii) round to oval red dots, globules or patches; (iii) grey dots; and (iv) a network of brownish to grey interconnected lines [4]. The lesions usually persist for several years and then spontaneously disappear, the treatment is based on the dermocorticoid, puvatherapy. the patient treated by dermocorticoid with improvement.

CONCLUSION

Clinical appearance of lichen aureus is variable, the dermoscopy is a less rapid non-invasive help to retain the diagnosis, as it allows to follow up as the case of our patient.

Consent

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

REFERENCES