Linear Atrophoderma of Moulin on face: An unusual location

Yüzde yerleşen lineer Moulin atrofoderması: Atipik lokalizasyon

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To The Editor,

Linear Atrophoderma of Moulin (LAM) is characterized by acquired unilateral hyperpigmented depressed band like skin lesions following blaschko’s lines. Moulin et al.1 first defined the condition in 1992 and, later, Baumann et al.2 reported similar features on a patient and named the condition as LAM.

In our 2 case reports, we described first a 26-year-old female with asymptomatic hyperpigmented lesions since one year. On physical examination, there was a depressed band-like lesion on the right side of chin along the neck following blaschko’s lines (Figure 1A).

Our second case was a 23-year old female patient with band like lesions over her right side of nasolabial region and chin since 3 years. The topography was unilateral and following blaschko’s lines. Physical examination showed linear atrophic slightly hyperpigmented skin lesion without sclerosis (Figure 1B). Both patients had no history of preceding trauma, cosmetic procedure, signs of inflammation or family history of similar illness. There was no other apparent clinical symptoms such as pain or pruritus or systemic symptoms.

Histological examinations of both patients showed mild perivascular inflammatory infiltrate of lymphocytes and few melanophages in the papiller dermis which was non specifc (Figure 2A, B). Laboratory investigations of patients

Figure 1A. Depressed band like hyperpigmented lesions over left side of chin along the neck
including full blood count, erythrocyte sedimentation rate, renal profile, liver function test, antinuclear antibodies were all negative or within the normal range. The diagnosis of LAM was made. Patients were prescribed with betamethasone, 0.1% cream twice daily.

Clinical presentations of LAM were mostly consistent with hyperpigmentation and atrophoderma following blaschko’s lines on the trunk or limbs. Only 3 patients were reported with face presentation in literature so far. Histopathological features described as non-specific in literature. In a review with 28 cases the commonest histopathological finding is reported as mild perivascular inflammatory infiltrate of lymphocytes.

The differential diagnosis include idiopathic atrophoderma of pasini and pierini, lichen striatus or linear morphea. Atrophoderma of pasini and pierini is characterized by hyperpigmented and atrophic skin lesions and exhibits a spectrum of alterations in elastic fibers in histopathological examination which however never follows blaschko’s lines. Lichen striatus is also common acquired self-limited linear eruption in childhood that follows blaschko’s lines but histopathology of lichen striatus shows a polymorphic epidermal reaction process of variable lichenoid and spongiotic changes. Morphea can also follow blaschko’s lines but absence of preceeding inflammation, dermal induration, scleroderma or sclerosis on histopathology, led us to a diagnosis of LAM. There is no effective treatment for LAM and main concern is esthetic. Topical corticosteroids, heparin, penicillin benzoyl, topical calcipotriol have been proposed but there isn’t any satisfactory treatment results with these treatments reported so far. In another case report, authors reported of improvement pigmentation and atrophy with methotrexate. We present these cases to raise awareness of this condition, because we think LAM is an underrecognized entity and needs further studies.

Ethics

Informed Consent: Informed consent was obtained from the patient.

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Authorship Contributions


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References


