



A new ERA for global Dermatology 10 - 15 JUNE 2019 MILAN, ITALY

INFLAMMATORY SKIN DISEASES (OTHER THAN ATOPIC DERMATITIS & PSORIASIS)

## FOX FORDYCE DISEASE IN A PREPUBERTAL GIRL: RESPONSE TO ADAPALEN 0.1%

Hind Benhiba<sup>(1)</sup> - Mouna Rimani<sup>(2)</sup>

Dermatologist, M.d, Private Practice, Rabat, Morocco<sup>(1)</sup> - Anatomopathologist, Phd, Hassan Anatomopathology Center, Rabat, Morocco<sup>(2)</sup>

Background: The Fox-Fordyce disease is a rare inflammatory dermatosis that affects mainly young women between 13 and 35 years. The etiology remains unknown. The physiopathology consists on the obstruction of the apocrine gland duct by a keratin plug in its insertion on the hair follicle wall, which causes secretion retention with consequent rupture of the glandular structure and secondary inflammation of the dermis. There are few reports in prepubescent patients and the disease is little diagnosed in this age group.

Observation: A female patient sought care for itchy cutaneous lesions on the armpits and pubic area which appeared just after menarche at 9 years of age. At examination we observed small normochromic papules measuring up to 2 mm, predominantly follicular, on the armpits and pubic area, the patient had accentuated reduction of hairs on the armpits and reported worsening of the itch with warm weather. Besides, she did not have any clinical sign of hormonal dysfunction. Incision biopsy showed hypekeratosis, parakeratosis and irregular acanthosis over the area of the apocrine gland exit, as well as spongiosis along the epidermis also involving the hair follicle, which still showed neutrophils exocytosis. The dermis had a mild, superficial, perivascular and interstitial lymphocytic infiltrate. The histopathological exam was compatible with Fox-Fordyce Disease. We chose the topical treatment with 0.1% adapalene gel. After 2 months there was remarkable decrease of the papules, growth of hairs on the armpits and moderate improvement of the itch.

Key message: We report a case of Fox Fordyce disease revealed at pubertal period by clinical and histopathologic examination and discussed therapeutic effects of adapalene in the light of literature.





**International League of Dermatological Societies** *Skin Health for the World* 

