WHAT IS YOUR DIAGNOSIS

DERMATOLOGY CLINICAL CASE

CASO CLÍNICO DERMATOLÓGICO

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A five-year-old boy was brought to the Emergency Department due to viral pharyngitis. During clinical evaluation, the mother complained of gradually increasing, asymptomatic, brown skin plaques affecting the neck, armpits, back of the ears, and upper chest, evolving for the past six months (Figures 1 and 2). Despite good hygiene, including shower and brushing with liquid soap, the boy showed no improvement of the condition. He was otherwise healthy and the mother denied the use of any medications or creams or trauma to the involved areas. A diagnosis of terra firma-forme dermatosis was evoked. All lesions disappeared after firm rubbing with a gauze pad saturated with 70% isopropyl alcohol (Figure 3).

What is your diagnosis?









Figure 3 - Resolution of the dermatosis after cleansing at home.

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NASCER E CRESCER

BIRTH AND GROWTH MEDICAL JOURNAL year 2019, vol XXVIII, n.° 2

DIAGNOSIS

Terra firma-forme dermatosis

DISCUSSION

Terra firma-forme dermatosis (TFFD), also known as Duncan's dirty dermatosis, is a benign condition first described by Duncan in 1987.¹ The name derives from the Latin "terra firma", which means "dirty land". TFFD is an uncommon keratinization disorder with unknown etiology. It is proposed to occur as a result of altered melanin maturation, abnormal and delayed keratinization, and initial inadequate cleaning with build-up and compaction of scales and dirt.²-3

This condition usually manifests as asymptomatic, localized or extensive, brownish to black hyperpigmented patches or plaques, involving most commonly the neck and trunk, but also the ankles, scalp, back, limbs, and axillary, umbilical and pubic areas.^{4,5}

TFFD affects a wide range of age groups (4 months–75 years), although it is more common in children.^{2,4-8}

Differential diagnosis includes dermatosis neglecta, Gougerot and Carteaud's reticular and confluent papillomatosis, acanthosis nigricans, postinflammatory hyperpigmentation, Dowling-Degos disease, and pityriasis versicolor.^{5,9,10}

Lesions are resistant to regular washing with soap and water and may cause cosmetic concerns to patients and their families. Rubbing with isopropyl alcohol is a simple and effective treatment. Recrudescence is unusual.⁴ Diagnosis is clinical, with no need for unnecessary evaluations (i.e. endocrine examinations or biopsy).^{4,9}

The authors have decided to present this case to raise awareness to TFFD. An early diagnosis made on clinical grounds can be reassuring to families and prevent unnecessary tests and treatments. TFFD should be taken into consideration for the differential diagnosis in patients with pigmentation disorders.

ABSTRACT

The case of a child with terra firma-forme dermatosis lesions is reported. This is an idiopathic and uncommon condition characterized by asymptomatic dirt-like lesions, which cannot be removed by routine cleaning. Lesions completely disappear after swabbing with 70% isopropyl alcohol. The condition is more frequent in children and often occurs on the neck, trunk, and ankles.

Keywords: Duncan's dirty disease; keratinization disorder; terra firma-forme dermatosis

RESUMO

Os autores descrevem o caso de uma criança com dermatose terra firma-forme. Trata-se de uma doença idiopática rara, caracterizada por lesões com aspeto de sujidade, assintomáticas e que não desaparecem com a higiene de rotina. As lesões resolvem totalmente após fricção com álcool isopropílico a 70%. A condição é mais comum em crianças e aparece frequentemente no pescoço, tronco e tornozelos.

Palavras-chave: Doença de Duncan; distúrbios de queratinização; dermatose terra firma-forme

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Received for publication:08.10.2018 Accepted in revised form: 11.01.2019