2016

Sudden Appearance of Indurated Erythematous Plaques on a Man's Face

Adam Carter  
New York Medical College

Karthikeyan Viswanathan

Kenneth Shulman  
New York Medical College

Follow this and additional works at: https://touroscholar.touro.edu/nymc_students_pubs

Part of the Dermatology Commons

Recommended Citation

This Article is brought to you for free and open access by the Students at Touro Scholar. It has been accepted for inclusion in NYMC Student Publications by an authorized administrator of Touro Scholar. For more information, please contact jogrady@nymc.edu.
Case Report

Sudden Appearance of Indurated Erythematous Plaques on a Man’s Face

A. Carter, 1 K. Viswanathan, 2 and K. Shulman 1

1 New York Medical College, New York, NY 10029, USA
2 Woodhull Medical Center, Brooklyn, NY 11206, USA

Correspondence should be addressed to K. Viswanathan; karthikeyan.viswanathan@protonmail.ch

Received 15 June 2016; Accepted 31 August 2016

1. Introduction

Rosacea fulminans (RF), previously known as pyoderma faciale, is a rare presentation of rosacea mostly seen in young women. RF is seen very rarely in men. We present below a case of a fifty-year-old male who presented with RF and was successfully treated with a combination of corticosteroids and isotretinoin.

2. Case Report

A fifty-year-old man presented with the sudden onset of a diffuse facial rash. He had a several years’ history of rosacea, well controlled with only topical treatments with the last outbreak approximately two years prior to his presentation. His medical history included diabetes mellitus for which he took metformin. A review of system was positive only for dryness in the left eye.

Physical exam revealed indurated, erythematous plaques covering most of his forehead, bilateral cheeks, including the nasolabial folds, nose, and chin. Numerous pustules and erythematous papules were also present. No cysts were noted on exam; and his back, chest, arms, and neck were spared. The affected areas were sharply demarcated from the unaffected areas (Figures 1 and 2). Mild erythema was seen in the medial sclera of his left eye.

His CBC and CMP were normal and his ANA titer was negative. A culture of his pustule returned no growth.

Hematoxylin–eosin staining showed granulomatous perifolliculitis and spongiosis with crusting. There was a heavy folliculocentric infiltrate of lymphocytes and histiocytes in the upper to mid dermis (Figures 3 and 4). This abrupt presentation, history of rosacea, physical exam findings, absence of any growth in his pustules, and the histopathology supported a diagnosis of rosacea fulminans (RF).

He was started on prednisone 40 mg daily along with risedronate 35 mg once a week, omeprazole 20 mg once a day, and calcium and vitamin D supplements. Isotretinoin 20 mg per day was added to his regimen three weeks after starting prednisone. Once on isotretinoin, prednisone was tapered down by 5 mg every week. When prednisone was tapered to 30 mg daily, isotretinoin was increased to 40 mg daily. Prednisone was then tapered over the next three weeks. We treated the patient to a goal of 150 mg/kg of isotretinoin over a five-month period. He had an excellent clinical response: clearance was seen by month two of the initiation of isotretinoin treatment. Three months after treatment completion, the patient required only topical metronidazole cream and sunscreen for maintenance of his rosacea.

3. Discussion

Kligman et al., in 1992, proposed renaming the disease, until then called pyoderma faciale, to rosacea fulminans since the progression of disease closely resembles acne fulminans; and similar to acne fulminans it presents with papules, pustules, and nodules [1]. It can be easily distinguished from acne vulgaris by the rapidity of its appearance and its fulminant
One mechanism proposed for the development of RF includes cytokine-mediated inflammation triggered by sebocytes [5]. However, outbreaks have been reported in a variety of pathophysiological settings: after ingestion of high dose vitamin B supplements [6]; with Crohn’s disease and ulcerative colitis [7]; and during pregnancy [8].

The suggested treatment course includes systemic corticosteroids followed by isotretinoin. Topical corticosteroids can be useful adjuvants. Amongst all presentations of rosacea, RF is the only clinical setting when oral or topical corticosteroids are recommended [2]. Isotretinoin, in addition to its anti-inflammatory effects, is effective in RF through its anti-seborrheic effects [9].

As an alternative to isotretinoin either macrolides or tetracyclines have effect through their anti-inflammatory properties [10]. Subantimicrobial dosing of doxycycline has also been shown to be effective in treating RF with extrafacial lesions [3]. During pregnancy, RF has been demonstrated to respond well to treatment with azithromycin [8]. In instances where the combination of corticosteroids and isotretinoin was ineffective, dapsone, through its anti-inflammatory properties, has been reported to be effective [5].

The combination of corticosteroids and isotretinoin remains the first-line treatment modality for RF [10]. It was highly effective in our patient and no recurrence has been reported as of submission of this case report.
Disclosure

Case was seen at Department of Dermatology, New York Medical College, New York, NY.

Competing Interests

No conflict of interests is reported.

References


