

Granulomatous cheilitis with granulomatous vulvitis: A rare association

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ABSTRACT

Granulomatous cheilitis and granulomatous vulvitis are rare disorders characterized by painless swelling of lips and vulva, respectively. Histopathology of both conditions show non-caseating epithelioid cell granulomas in the dermis. Both disorders have been associated with Crohn's disease rarely. Occurrence of the two conditions in the same patient is extremely infrequent. We hereby report, the association of granulomatous cheilitis with granulomatous vulvitis in a 30-year-old female.

Key words: Cheilitis, Crohn's disease, granulomatous, vulvitis

INTRODUCTION

Granulomatous cheilitis is a chronic granulomatous inflammation of the lips of unknown etiology characterized clinically by diffuse, non-tender and soft to firm swelling of one or both lips. The genital counterpart of granulomatous cheilitis is called granulomatous vulvitis, which presents as painless swelling of the vulva. Granulomatous disorders such as metastatic Crohn's disease, sarcoidosis and mycobacterial infections have to be ruled out when a patient presents with granulomatous cheilitis and/or vulvitis.^[1]

CASE REPORT

A 30-year-old woman presented with 10 years history of painless swelling of upper lip, which was intermittent initially, but since last 2 years became progressive and persistent. She also gave 6 months history of

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painless swelling of lower lip and vulva. Patient was otherwise well and reported no history of facial palsy. gastrointestinal or respiratory symptoms except for recurrent vaginal discharge since the last 10 years. Dermatological examination showed erythematous firm swelling of both lips with the upper lip more affected [Figure 1a]. Genital examination revealed indurated swelling of labia majora with the left side more affected than the right. Few indurated papules and a solitary infiltrated plaque were seen in the groin [Figure 1b]. White watery vaginal discharge was present, which on culture showed peptostreptococci and bacteroides species sensitive to metronidazole. The findings of routine blood work-up including angiotensin converting enzyme level were normal except for hemoglobin level of 9.4 mg/dl and raised erythrocyte sedimentation rate of 126 mm/1st h. Chest X-ray was normal and Mantoux test was negative. Stool examination was normal. Colonoscopy with multiple colorectal biopsies did not show any evidence of Crohn's disease. Histopathological examination of biopsies taken from upper lip and vulva showed non-caseating epithelioid cell granulomas and mononuclear cell infiltrate in the dermis [Figure 2a and b]. These features were suggestive of granulomatous cheilitis and granulomatous vulvitis. Based on clinical and histopathological features, a final diagnosis of granulomatous cheilitis and granulomatous vulvitis was made. Patient was started on intralesional

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Figure 1: (a) Granulomatous cheilitis presenting as erythematous firm swelling of lips. (b) Granulomatous vulvitis presenting as indurated swelling of both labia majora and infiltrated plaque in the right groin

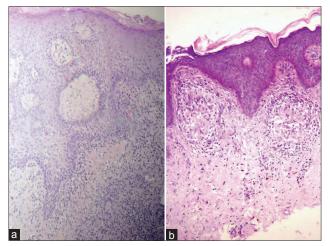


Figure 2: (a and b) Histopathology of lip and genitalia showing non-caseating epithelioid granulomas (H and E, ×400)



Figure 3: (a) Lip swelling at 1 month follow-up. (b) Genital swelling at 1 month follow-up

triamcinolone acetonide at every 2 weeks interval and oral metronidazole 400 mg twice daily. At 1 month follow up, there was considerable improvement in lip and genital swelling [Figure 3a and b].

DISCUSSION

Granulomatous cheilitis is an uncommon disorder, which presents initially with intermittent swelling and later with persistent swelling of one or both lips and belongs to a larger group of orofacial granulomatosis. It may occur as a part of Melkersson-Rosenthal syndrome, which is a triad of granulomatous cheilitis, facial nerve paralysis and fissured tongue. [1,2] The cause is not known in majority of cases though in few cases, Crohn's disease, sarcoidosis, genetic factors, allergy to food additives, vasomotor disturbances and infective factors such as mycobacterium tuberculosis, herpes simplex and apical periodontitis have been suggested.[2-5] Typical histopathological features consist of epithelioid cell granulomas with langhans giant cell and mononuclear cells though a more banal infiltrate may be seen in early stage. [6] Various treatment options include systemic and intralesional corticosteroids, clofazimine, hydroxychloroguine, antibiotics such as metronidazole, minocycline and roxithromycin, infliximab, thalidomide, methotrexate, fumaric acid esters and tranilast. Cheiloplasty and helium neon laser radiation treatment has been tried in resistant cases.[2,7] Granulomatous vulvitis is a rare disorder, which is considered as the genital counterpart of granulomatous cheilitis. Both disorders are characterized by persistent labial swelling and non caseating granulomas extending into deep dermis, composed of histiocytes and giant cells, associated with lymphomonocytic infiltrate.[8,9] Few cases of granulomatous vulvitis have been found to be associated with Crohn's disease, but in majority of cases the cause is not known.[10] Treatment options include topical, intralesional and oral corticosteroids, antibiotics such as metronidazole and ciprofloxacin, immunosuppressants such as azathioprine and cyclosporine. Salazosulfapyridine, mesalazine and anti-tumor necrosis factor monoclonal antibodies such as infliximab and adalimumab have been used with good results in granulomatous vulvitis associated with Crohn's disease.[1,9-11]

Granulomatous cheilitis and granulomatous vulvitis can occur together in the same patient as in our case, but it is extremely rare. [1,8] Though in our patient, all

relevant investigations performed to rule out Crohn's disease, sarcoidosis and tuberculosis didn't show any positive finding, it is essential to rule out these granulomatous disorders when a patient presents with persistent lip and/or genital swelling

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