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CASE REPORT



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Isolated case of mucosal histoid Hansen's disease of the nasal cavity in a post-global elimination era



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KEYWORDS

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Summary Histoid Hansen's disease is a rare form of multibacillary leprosy with distinct clinical and histopathological features. This type of leprosy is a variant of lepromatous leprosy with a very high bacterial reserve. Of alarming concern is the discovery of an isolated mucosal histoid leprotic lesion inside the nasal cavity of a patient in the post-global leprosy elimination era. Our case had no history of leprosy or exposure to dapsone/multidrug therapy but had a heavy bacillary index. We are reporting this case to highlight the rarity of mucosal lesions due to histoid leprosy and involvement of the nasal cavity, as well as to create awareness and avoid misdiagnosis. This will help facilitate prompt treatment to minimize the complications and deformities of the patient and prevent its spread throughout the community.

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Introduction

Leprosy is a chronic infections granulomatous disease caused by *Mycobacterium leprae* with high

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morbidity. Histoid leprosy is a rare variant of lepromatous leprosy with incidence varying from 1% to 2% among total leprosy patients and an average age at diagnosis is between 21 and 40 years old [1]. The adult population is most commonly affected with a male predominance [2]. The bacillary load is high in these patients and usually presents in the lepromatous types as well as in patients undergoing dapsone monotherapy and dapsone-resistant cases. Clinically, histoid leprosy presents as asymptomatic, with discrete, firm shiny papules and nodules on relatively normal appearing skin. The sites of predilection are the extensor surface of the extremities and lower trunk [1,3]. It is extremely rare in the genitalia, which occurs in more severe form [3]. However, the etiopathogenesis is unclear. The characteristic histopathological findings in conjunction with a high bacillary index confirm the diagnosis in the clinically doubtful cases. As the bacillary load is very high in these patients, they can form a potential reservoir of infection in the community. The mucosal type of histoid leprosy is extremely rare in the community. Here, we report a case of isolated mucosal histoid leprosy in a 45-year-old man from the post-elimination area of Odisha, India, where the prevalence rate of the disease was reported to be 1.47/10 000 people in March 2014 (NLEP) [4].

Case report

A 45-year-old male presented to the Outpatient Department (OPD) of Ear, Nose and Throat (ENT) with a right nostril block that existed for 6 months and intermittent nasal bleeding from same side (Fig. 1). The patient had neither rhinorrhea nor anosmia and had no history of serious illness. Upon inspection and an anterior rhinoscopy procedure, there was a small reddish mass observed in the anterior part of nasal cavity. A diagnostic nasal endoscopy was performed to confirm the lesion inside the nasal cavity and its site of attachment. A computed tomography (CT) scan of the nose and paranasal sinus was performed to determine the exact size and extent of the mass and showed that the mass was confined to the anterior region of the nasal cavity, primarily the anterior region of the inferior turbinate attached to septum. There was no history of sneezing or hyposmia, and the ear and throat examinations were normal. The general physical examination, systemic examinations and routine blood tests were within normal limits. Infectious diseases such as HIV, syphilis and tuberculosis were ruled out by ELISA, VDRL test



Figure 1 Patient presenting with a mass on the anterior region of the right nasal cavity.

and Mantoux test, respectively. The split skin smear examination for *Lepra* bacilli was performed on the bilateral earlobes, forehead, cheeks and chin and was negative at all of these sites. The mass was excised endoscopically under general anesthesia after taking the patient's consent, and the mass was sent for histopathological examination.

The biopsy was reported as the histoid type of lepromatous leprosy (Fig. 2a and b). After this unexpected histopathology result, a more in-depth history was collected. The patient did not have any familial background of the disease and did not mention any contact with any persons suffering from leprosy. There were no cutaneous or peripheral nerve involvements, and neither hypoesthetic patches nor infiltration were discovered on the skin. The patient was referred to the outpatient department of dermatology for further evaluation and treatment of his histoid lepromatous leprosy. After confirmation of the diagnosis, the patient was started on anti-leprotic multibacillary therapy with rifampicin, clofazimine and dapsone. The patient was advised for regular follow up and has responded well to the previous 6 months of treatment.

Discussion

Histoid leprosy was first reported in 1963 by Wade [5]. It is an unusual multibacillary form of leprosy having unique clinical, histological and bacteriological findings. Irregular and inadequate therapies with resistance to dapsone and/or mutated organisms (histoid bacillus) are the primary factors that

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