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IJDVL gets into the Science Citation Index Expanded!
Uday Khopkar

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Registration and reporting of clinical trials
Uday Khopkar, Sushil Pande

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Jyotsna Oak

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Molecular diagnostics in genodermatoses - simplified
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ORIGINAL ARTICLES

A clinicoepidemiological study of polymorphic light eruption
Lata Sharma, A. Basnet

A clinico-epidemiological study of PLE was done for a period of one year to include 220 cases of PLE of skin type between IV and VI. The manifestation of PLE was most common in housewives on sun exposed areas. Most of the patients of PLE presented with mild symptoms and rash around neck, lower forearms and arms which was aggravated on exposure to sunlight. PLE was more prevalent in the months of March and September and the disease was recurrent in 31.36% of cases.

Comparative study of efficacy and safety of hydroxychloroquine and chloroquine in polymorphic light eruption: A randomized, double-blind, multicentric study
Anil Pareek, Uday Khopkar, S. Sacchidanand, Nitin Chandurkar, Geeta S. Naik

In a double-blind randomized, comparative multicentric study evaluating efficacy of antimalarials in polymorphic light eruption, a total of 117 patients of PLE were randomized to receive hydroxychloroquine and chloroquine tablets for a period of 2 months (initial twice daily dose was reduced to once daily after 1 month). A significant reduction in severity scores for burning, itching, and erythema was observed in patients treated with hydroxychloroquine as compared to chloroquine. Hydroxychloroquine was found to be a safe antimalarial in the dosage studied with lesser risk of ocular toxicity.
Many faces of cutaneous leishmaniasis
Arfan Ul Bari, Simeen Ber Rahman

Symptomatic cutaneous leishmaniasis is diverse in its presentation and outcome in a tropical country like Pakistan where the disease is endemic. The study describes the clinical profile and atypical presentations in 41 cases among 718 patients of cutaneous leishmaniasis. Extremity was the most common site of involvement and lupoid cutaneous leishmaniasis was the most common atypical form observed. Authors suggest that clustering of atypical cases in a geographically restricted region could possibly be due to emergence of a new parasite strain.

Forehead plaque: A cutaneous marker of CNS involvement in tuberous sclerosis
G. Raghu Rama Rao, P. V. Krishna Rao, K. V. T. Gopal, Y. Hari Kishan Kumar, B. V. Ramachandra

In a retrospective study of 15 patients of tuberous sclerosis, eight patients had central nervous system involvement. Among these 8 cases, 7 cases had forehead plaque. This small study suggests that presence of forehead plaque is significantly associated with CNS involvement.

Ligand-binding prediction for ErbB2, a key molecule in the pathogenesis of leprosy
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Adult onset, hypopigmented solitary mastocytoma: Report of two cases

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ABSTRACT

Solitary mastocytoma is known to occur predominantly in children below 2 years of age and onset in adulthood is rare. Lesions are hyperpigmented in the majority of cases owing to the stimulation of melanin synthesis by mast cell growth factor. We hereby report two patients with adult onset solitary mastocytoma presenting as hypopigmented plaque. The first case was a 24-year-old man who presented with a plaque on the back of the neck of 5 years duration. The second case was a 30-year-old man who had a well-defined solitary, oval 3 x 2.5 cm plaque on the nape of the neck. Stroking of lesion resulted in a wheal with flare (Darier’s sign) in both cases. Systemic examination was within normal limits in both cases. Histopathology revealed a dense toluidine blue-positive infiltrate of mast cells in the upper dermis in both cases.

Key Words: Adult, Excision, Hypopigmented, Mastocytoma

INTRODUCTION

Mastocytosis is a disease characterized by the proliferation of mast cells in the skin, bone marrow, liver, spleen, lymph nodes or gastrointestinal tract. Cutaneous mastocytosis can present as urticaria pigmentosa, solitary mastocytoma (SM), diffuse mastocytosis and telangiectasia macularis eruptiva perstans.[1] Based on the clinical picture and course, mastocytosis may be divided into childhood onset (≤15 years) and adult onset (>16 years). Solitary mastocytoma occurs almost exclusively in the first 2 years of life as red, yellow, skin-colored or hyperpigmented solitary or multiple macules, plaques or nodules.[2-4] Herein we describe two patients with adult onset mastocytoma presenting as a solitary, hypopigmented plaque over the neck.

CASE REPORTS

Case 1
A 24-year-old man presented with a plaque on the back of the neck of 5 years duration. He had intense itching and burning sensation after rubbing the lesion. There was history of allergic rhinitis since childhood. He had no episodes of flushing, headache, tachycardia, diarrhea or bone pain. On cutaneous examination, a single, hypopigmented, well-circumscribed, round plaque measuring 2.5 × 2.5 cm was observed on the nape of the neck. Stroking of lesion resulted in a wheal with flare (Darier’s sign) [Figure 1]. There was no evidence of lymphadenopathy or hepatosplenomegaly. Histopathologic examination of a punch biopsy specimen revealed a dense mast cell infiltrate with scattered eosinophils involving the upper dermis and extending deeper in the peri-appendageal area [Figure 2]. Toluidine blue stain demonstrated metachromatic purple granules in the cytoplasm [Figure 3]. A diagnosis of solitary mastocytoma was made and after informed consent, the lesion was excised. There was no recurrence during one-year follow-up.

Case 2
A 30-year-old man came with a 10-year history of a plaque on the back of the neck. He reported itching in the lesion following scratching. He denied history of allergic rhinitis, bronchial asthma, flushing, headache, tachycardia, diarrhea or bone pain. Examination revealed a single, oval, 3 × 2.5 cm well-defined plaque with positive Darier’s sign on the nape of
The cutaneous form of solitary mastocytoma (SM) was first described by Nettleship in 1889. Since then, recognition of SM and mastocytosis has increased due to significant increase in the knowledge of these entities.[3] Solitary mastocytoma is defined by the presence of one to several lesions (commonly five separate lesions).[2] Stroking of lesional skin usually provokes a whealing response (Darier’s sign) or blistering reaction (usually in children less than 3 years old).[3] Solitary mastocytoma is rarely found in adults. In one large series of 112 patients, SM developed mostly within the first month of life.[6] In a recent series of 101 patients documented by Middelkamp Hup et al., over an 18-year period, only one patient with adult onset SM was documented[2]. The symptoms are due to local and systemic release of histamine and other mast cell mediators like leukotrienes, prostaglandins and platelet activating factor.[3]

**DISCUSSION**

The cutaneous form of solitary mastocytoma (SM) was first described by Nettleship in 1889. Since then, recognition of SM and mastocytosis has increased due to significant increase in the knowledge of these entities.[3] Solitary mastocytoma is defined by the presence of one to several lesions (commonly five separate lesions).[2] Stroking of lesional skin usually provokes a whealing response (Darier’s sign) or blistering reaction (usually in children less than 3 years old).[3] Solitary mastocytoma is rarely found in adults. In one large series of 112 patients, SM developed mostly within the first month of life.[6] In a recent series of 101 patients documented by Middelkamp Hup et al., over an 18-year period, only one patient with adult onset SM was documented[2]. The symptoms are due to local and systemic release of histamine and other mast cell mediators like leukotrienes, prostaglandins and platelet activating factor.[3]

These include pruritus (of varying intensity and severity), flushing, gastrointestinal complaints (nausea, colicky pain, diarrhea) and headaches. Rarely, gastrointestinal bleed, asthma and hypotension may occur. Malignant change has been reported with urticaria pigmentosa but not with SM.[3]
Mastocytosis can occur in sporadic and familial forms. The exact etiology for proliferation of mast cells is unknown. Various postulates include C-kit receptor mutation, excessive production of C-kit ligand or increased production of soluble form of mast cell growth factor (MGF). There are indications that mutation in C-kit receptor of which MGF is a ligand may be responsible for chronic course in adults. The lesions of mastocytosis are often hyperpigmented due to overproduction of melanin. It has been proposed that this is due to MGF-induced stimulation of both mast cells and melanocytes. It is pertinent to note that both our patients had hypopigmented plaques, which is an atypical presentation. The usual differential diagnoses of SM include melanocytic nevi, xanthoma and xanthogranuloma. In adults, leukemia cutis may also be considered. Further, Pascual et al. reported a patient with a longstanding solitary plaque of telangiectasia macularis eruptiva perstans associated with renal carcinoma. This minimally raised lesion had significant overlying telangiectasias. In our patient with hypopigmented SM, additionally leprosy and hypopigmented sarcoid were also ruled out.

It is possible that there is a relationship between SM and asthma. A higher personal or family incidence of allergic rhinitis or asthma was noted in children with SM. Precipitation of acute asthmatic attack has been documented following mechanical stimulation of SM lesion. Degranulation of mast cells and release of mediators may play a role in its causation. Case 1 had longstanding history of allergic rhinitis.

As children typically have complete involution of lesions by adulthood, treatment of SM has mostly been palliative in the form of H₁ and H₂ antihistaminics, cromolyn sodium, avoidance of triggering factors such as friction, ingestion of alcohol, NSAIDs or temperature changes. Other modalities tried include topical and intralesional corticosteroids and hydrocolloid dressings. Surgical excision of SM as was done in Case 1 remains a rapid, simple and effective treatment. Although Case 2 had symptomatic relief, no improvement in the lesion was noted with two injections of triamcinolone acetonide, given at monthly intervals.

In the literature adult onset SM has been documented to have a less favorable resolution rate as compared to childhood onset. In addition, resolution is usually expected in up to 10 years, which would be unacceptable to symptomatic patients. Thus, in case of single or a few, symptomatic lesions, surgical excision can be tried as first-line therapy.

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