Focal myositis: an unusual cause of bilateral upper eyelid swellings

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Summary: Focal myositis is considered a rare self-limiting inflammatory swelling of skeletal muscle. Focal involvement of individual muscle or muscle groups with severe myopathic and inflammatory changes characterizes the histology. We report the development of progressive focal myositis in both upper eyelids of a 34 year old man that responded to immunosuppressive therapy.

Introduction

Focal myositis, described by Heffner and colleagues in 1977, is considered to be a benign, inflammatory swelling of skeletal muscle that may mimic a malignant soft tissue tumour. Fewer than 30 of these lesions have been reported, the majority of which were located in the limbs. We report the development of focal myositis in both upper eyelids of a man which responded rapidly to immunosuppressive therapy.

Case report

A 34 year old West Indian presented to Eye Casualty with a 2 month history of discomfort and progressive swelling of his left upper eyelid. A course of antibiotics was prescribed for a suspected infected cyst. However, the left eyelid swelling progressed and was biopsied 6 months after presentation. At operation, the mass appeared to arise from the musculature of the upper eyelid and two biopsies, the largest measuring 1.5 cm in maximum extent, were obtained. Microscopic examination demonstrated active muscle destruction, interstitial fibrosis and oedema, and lymphocytic infiltration associated with a marked lymphocytic vasculitis (Figures 1 and 2).

Without other treatment or intervention, there was further gradual increase in size of the left eyelid mass over the next 3 months and a month prior to

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him being seen in the Clinical Immunology Unit a similar lesion developed in his right upper eyelid. There was no specific history of trauma or infection. There were no symptoms of a systemic illness and no personal or family history of soft tissue tumours, connective tissue diseases, other autoimmune diseases or neuromuscular disorders.

Physical examination showed diffuse enlargement with overlying erythema and oedema of both upper eyelids (Figure 3). The bilateral masses were tender to palpation. Clinical involvement of other orbital structures was absent and the remainder of the physical examination was normal. Full blood count, urea and electrolytes, liver function tests and thyroid function tests were within normal range. Serial erythrocyte sedimentation rate, creatine kinase, plasma complement C3, C4 and C3 degradation products and immunological tests including ANA, ENA, anti-dsDNA and ANCA were persistently normal or negative. Radiographs of the chest and sinuses were reported as normal. A computed tomographic (CT) scan of the orbits showed that the lesions were pre-septal, separate from the lacrimal glands with no involvement of the globes, optic nerves, extra ocular muscles or underlying bone. A needle muscle biopsy of the left quadriceps was normal – that is, did not show occult myositis or lymphocytic vasculitis.

The patient was commenced on prednisolone 20 mg. There was rapid resolution of his lesions, including the lesion in the right upper eyelid that had not been biopsied, within 2 weeks and the dose of prednisolone was gradually reduced and discontinued. He suffered a flare of his symptoms when he was on less than 10 mg of prednisolone daily, requiring a transient increase in his prednisolone dosage and the addition of azathioprine 150 mg daily. The latter drug was continued for a total of 9 months. A year later, there has been no recurrence of his lesions and he had not developed classical polymyositis or a systemic vasculitic illness.

Discussion

To our knowledge, focal myositis of the musculature of the upper eyelids has not been previously reported. In Heffner's original series of 16 patients, eight lesions were in the thigh, four in the calf, two in the thorax and one each in the abdomen and forearm. Other sites reported in the literature since then have included the abdominal wall,2 neck,3,4 tongue,5,6 perioral muscles7 and hand.8

It appears that the condition can affect any age group and has an equal sex distribution. Typically the major presenting feature is a rapidly expanding soft tissue mass which might be tender to palpation. The majority of lesions are present from 2 to 8 weeks before a diagnosis is made. Our patient, like others reported previously, was in good general health and had normal laboratory tests including creatine kinase. Contrary to the reported benign nature of focal myositis, our patient had progressive disease with involvement of his contralateral upper eyelid 12 months after his initial symptoms. Initially there was rapid response to prednisolone therapy but longer term treatment with azathioprine was subsequently required to maintain remission of his disease. To date, steroid therapy used to induce rapid remission has only been reported in one case of focal myositis.9

Focal myositis needs to be differentiated from other soft tissue tumours involving skeletal muscles such as neoplasms, nodular fasciitis, proliferative myositis and myositis ossificans. Eosinophilic myositis may be focal in presentation10 and was excluded on the basis of normal blood eosinophil counts and lymphocytic, and not eosinophilic, infiltration seen in the muscle biopsy specimen. Eyelid swelling may also be the presenting feature of orbital myositis11 but this patient never had clinical or radiographic evidence of extra ocular muscle involvement. Hence the diagnosis of focal myositis was made on the clinical history and the typical histological appearances.

The aetiology of this condition is unknown. Trauma or muscular injuries have been reported to be the initiating insult in a number of patients. However, symmetrical involvement of a paired structure observed in our patient similar to other conditions such as autoimmune Addison's disease and vitiligo may suggest a common aetiopathogenesis.
Candida lusitaniae causing fatal meningitis

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Summary: Fatal meningitis due to Candida lusitaniae in a 35 year old previously healthy man is described. C. lusitaniae is an opportunistic fungal pathogen reported infrequently in the English literature. This is the third case report of meningitis and the first fatal infection in an adult from Central India due to C. lusitaniae known to the authors.

Introduction

Candida lusitaniae van Uden et do Carmo-Sousa, originally isolated from the gastrointestinal tracts of warm-blooded animals,¹ has recently been found to colonize rarely the gastrointestinal, respiratory and urinary tracts and skin of hospitalized patients.² This organism shares morphological, biochemical and other characteristics with other species of the genus Candida, such as C. tropicalis and C. parapsilosis.³ More recently, C. lusitaniae has been recovered from a variety of human clinical specimens such as respiratory and genitourinary secretions, stool, blood, pleural fluid, kidneys, lungs, bone⁴,⁵ and cerebrospinal fluid.⁶⁷

The reports of a premature infant⁷ and a 2 year old white male⁶ with C. lusitaniae sepsis and meningitis are the only examples of meningeval infection caused by this organism, of which we are aware. Blinkhorn et al.⁸ in their review did not include any additional patient with this form of C. lusitaniae disease. The present report describes a third case of meningitis and a first fatal case caused by this emerging pathogen in a non-white patient from central India.

Case report

A 35 year old man was admitted as an emergency to the Jawaharlal Nehru Hospital and Research Centre, Bhilainagar, Madhya Pradesh, India, with a 8 day history of fever and unconsciousness of one
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