Abstract 03

Unusual Presentation of Dengue as Myositis

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Abstract:

Dengue fever is caused by viruses belonging to family Flaviviridae, characterized by fever, myalgia, rash, leukopenia. Dengue infections cause a spectrum of illnesses from self-limited fever, hemorrhagic manifestations, and increased vascular permeability. Myositis associated with viruses is a well-described entity but few reports are with dengue virus infection. Possible mechanisms are viral invasion of muscle or toxins like TNF. We report two patients, who presented with fever, severe myalgia and had high levels of CPK. Both were positive for Dengue NS1.

First child, 11 year-old boy, admitted with sudden onset of fever with severe calf muscle pain for 2 days. The second child, 6 years-old boy, admitted with fever for 4 days, severe lower limb muscle pain associated with weakness of both lower limbs for 1 day. There was no history of retro-orbital headache, arthralgia or rash in both children. On examination calf muscle tenderness was noted in both. There was no hypotension, third space loss of fluids, petechiae or mucosal membrane bleeding. Systemic examination of second child had mild proximal muscle weakness of lower limbs with preserved reflexes. Initial investigations showed normal platelets on Complete blood count with no hemoconcentration, electrolytes were normal, CPK levels were very high 2430 IU/lit and 1413 IU/lit respectively(Normal value 0-120 IU/lit). Dengue NS1 was positive in both the children. Both the children were treated with antipyretics and fluid.