Research Letter

To the Editors

A rare and unusual case of Kawasaki syndrome in a 2.5 months old baby


(Key words: Kawasaki syndrome)

Kawasaki syndrome (KS) is an acute febrile illness associated with multigorgan vasculitis. It is widely believed to be of infectious aetiology. However, no specific infectious agent has been consistently isolated from patients with this disease. It was first described in Japan by Tomisaku Kawasaki1 in 1967 and subsequently recognized world wide in children of every racial group. The Sri Lanka Journal of Child Health had a feature on the disease recently2. I wish to report the disease in a 2.5 months old baby.

A 2 ½ month old female infant presented with a 4 day history of high fever. The mother reported that the infant had no feeding difficulty and her cry was normal. She had been treated only with antipyretics prior to admission. She is the first child of a healthy 41 year old lady. The baby was born at term with a birth weight of 3.2 kg after an uncomplicated pregnancy and remained well till the present admission. Initial physical examination revealed a febrile ill infant with 2 erythematous plaques over her legs. Each was 0.5 cm in diameter. The rest of the examination was normal.

After a septic screen she was started on IV penicillin and cefotaxime for a possible septicaemia. The white blood cell count was 12.9 x 10^9/L with 89% polymorphonuclear leukocytes and the platelet count was 393 x 10^9/L. ESR was 74 mm/1 hour while the CRP was 21.62 mg/dl. CSF examination did not reveal any abnormality. Blood culture remained sterile.

On day 4 of IV antibiotics she continued to be febrile and ill. On further analysis she was noted to have mild redness of bulbar conjunctivae and lips. The possibility of atypical Kawasaki disease was raised and further investigations were carried out. EGG, liver function tests, baseline echocardiography and platelet counts were all normal.

She was treated with 2 gm/kg IV immunoglobulin and aspirin (100 mg/kg/day in four equal doses) on clinical suspicion. Within 24 hours her fever subsided and her clinical condition improved. She was discharged home on aspirin. On the 14th day of illness she developed periungual desquamation and the platelet count was 750 x 10^9/L. A repeat echocardiogram in the 3rd week of illness demonstrated no cardiac complications.

Myocarditis in Kawasaki syndrome occurs during the first week after onset of fever and is often associated with pericardial effusion. Coronary artery abnormalities occur in nearly 25% of Kawasaki syndrome patients not treated with IVIG within 10 days of onset of fever. This is particularly so for children under 6 months of age. Studies of immune response in patients with Kawasaki syndrome reveal an unusual degree of stimulation and it is likely that IVIG modifies the inflammatory response through more than one mechanism. As there is no laboratory investigation to confirm a definitive diagnosis it is a challenge to recognize atypical cases of the syndrome.

References


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