ZINC IN BEHCET'S SYNDROME

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A 16-year-old male patient having Behcet's syndrome showed marked improvement with zinc sulphate when other therapeutic modalities had failed.

Key words: Behcet's syndrome, Zinc sulphate, Treatment.

Behcet's syndrome is a chronic triplesymptom syndrome of oral and genital ulcerations and ocular inflammation.1 Other systeassociations of this syndrome are now mic Diagnostic criteria have been divided into major and minor criteria. Major criteria include oral, genital, eve and skin lesions whereas minor criteria include gastrointestinal lesions, thrombophlebitis, cardiovascular lesions. arthritis, central nervous system lesions and a positive family history. The original three major criteria or two major and two minor criteria are required for the diagnosis of Behcet's syndrome.2 Various drugs such as phenformin,3 ethyloestrenol,3 corticosteroids,4 chlorambucil,5 levamisole, 6-8 colchicine9 and dapsone,10,11 have been tried for the treatment of Behcet's syndrome. We have tried zinc sulphate in a case of Behcet's syndrome who was not responding satisfactorily with systemic and topical corticosteroids. There was a marked improvement in the lesions with the administration of zinc sulphate and reversion of the condition when this drug was stopped.

Case Report

A 16-year-old boy started having photophobia, pain and redness in the eyes with moderate fever without rigors and chills two months ago. The next day he felt burning sensation in

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the upper abdomen especially after the meals. There was no vomiting, hematemesis, pain in the abdomen or abnormal bowel habit. About a week later, he developed multiple painful ulcers throughout the oral cavity. There was difficulty in taking meals due to the pain in the oral cavity. With antacids, there was relief in the abdominal symptoms but the ocular and oral lesions progressed gradually. month, he noticed a large painful ulcer at the coronal sulcus of the penis. Within 2-3 days, the whole circumference of the coronal sulcus was involved along with the appearance four painful scrotal ulcers. About 15 days after the development of the genital lesions, all the proximal nail folds became painful and exuded purulent discharge on pressure. At the time of admission, he had aphthous stomatitis like lesions in the whole of the oral cavity. bilateral conjunctivitis, superficial genital and scrotal ulcers, paronychia of all the digits, and erythemato-squamous papules and plaques on the palms and soles. A diagnosis of Behcet's syndrome was made. Systemic antibiotics and corticosteroids along with topical systemic corticosteroids were prescribed. Eve genital lesions responded well in 13 month's time, whereas paronychia took about 3 month's time to disappear partially along with loss of the nails in a few fingers and toes. There was no relief at all in oral lesions. During the treatment, there was off and on aggravation of various lesions except the genital ulcerations. A few months later, the oral lesions extended upto the throat and he had severe pain while

swallowing even fluids. Oral levamisole in a dose of 150 mg daily was added to the treatment. After 3 weeks, levamisole was stopped as there was no improvement at all. Then, zinc sulphate in a dose of 440 mg daily in two divided oral doses was added to the treatment. The paronychia started improving within a week's time and oral lesions showed improvement in 2 week's time. After a month, zinc sulphate was stopped. Within a week of stopping the zinc sulphate, the oral lesions and paronychia of toes resumed the old picture. Zinc sulphate was restarted in the same doses and observed marked healing in the oral ulcers and the paronychia of the toes. Simultaneously, we started tapering off corticosteroids. The disease did not show any aggravation.

Comments

Though various drugs have been tried for the treatment of Behcet's syndrome, the results are not always satisfactory. Our case was receiving topical and systemic corticosteroids but the oral lesions and paronychia failed to improve satisfactorily. With a high dose of corticosteroids these lesions became stationary only. Later on there was appearance of side effects of corticosteroids such as hypertrichosis, stria atrophicans, mooning of the face etc. When we reduced the dose of corticosteroids, the progression of these lesions restarted. Because of nonhealing of oral ulcers and paronychia even with a high dose of corticosteroids, progression of the disease on reducing the corticosteroids and appearance of side effects we had to give some other drug. We thought of zinc sulphate because of its wound healing property. There was marked healing of oral ulcers and paronychia, and the patient started taking meals without much discomfort. At that time, we believed that either zinc has caused its specific or the disease effect in Behcet's syndrome

itself has gone into the remission phase. On stopping zinc sulphate, the paronychia and oral ulcers started increasing again with much discomfort to the patient. On restarting the drug, our patient improved once again. Because of these withdrawal and exposure responses to zinc sulphate, we believe that zinc sulphate deserves further trials for the treatment of Behcet's syndrome.

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