Treatment of recurrent premenstrual orogenital aphthae with implants of low doses of testosterone

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Recurring aphthous ulcers are painful and sometimes incapacitating. They affect the oral mucosa and, rarely, the genitals. The cause is unknown. They may occur or increase in severity in the premenstrual phase of the cycle. Treatment is generally unsatisfactory. We treated a patient whose intractable, cyclical orogenital ulcers responded to implants of low doses of testosterone.

Case report
A 29 year old nurse was referred to us with a history of recurrent orogenital ulcers since her late teens. The condition had worsened during the previous six years, when it became evident that it was related to her menstrual cycle. Each month she developed small painful red areas in her mouth and vulva around mid-cycle. These broke down to ulcers within a week. Usually four to six ulcers of about 1 cm diameter appeared at one or both sites. The ulcers healed a week after the menses, the symptoms thus lasting three weeks. She sometimes used aqueous tetracycline suspension with some benefit.

There were no other features to suggest a diagnosis of Behçet’s disease. The results of haematological and hormonal investigations were normal. She had been taking the combined contraceptive pill since the age of 17.

She kept a daily record of her symptoms for three months while taking the contraceptive pill and for three months without the pill. This confirmed the cyclical pattern of the ulcers and showed that the contraceptive pill had no effect on her symptoms. Treatment with dydrogesterone for four months had no effect, although the ulcers no longer appeared in the premenstrual phase but appeared in the postmenstrual phase. Finally, in February 1985, 100 mg testosterone was implanted subcutaneously. The ulcers gradually decreased in size and number over the next two months, and this was followed by a complete remission for one year. The ulcers then reappeared and gradually worsened. The patient requested another implant, which was given in February 1987. She received three more implants at intervals of about nine months. Each of the benefit seemed to last for eight or nine months. The soreness in the vulva then recurred but did not progress to frank ulceration. She has had no mouth ulcers for two years.

The only side effect was the growth of a few hairs over the chin and breasts. Serum testosterone concentrations four, five, and eight months after implantation were 2.9, 3.8, and 1.3 nmol/l respectively (normal 0.5-2.0 nmol/l).

Comment
Recurring aphthae are rare in childhood, when boys and girls are affected equally before puberty. The incidence increases gradually, reaching a peak in the third decade, and women are affected more than men. Because there is an endocrine factor contributing to the cause, Sircus in a single blind trial treated one patient each with oestrogen, androgen, and ethisterone (progestogen), but there was no response. Ferguson et al, however, showed that depot progestogens control such ulcers.

Our patient’s ulcers did not heal with treatment with oral progestogen. We tried testosterone implants because of our success in alleviating other more common premenstrual symptoms. The response was dramatic and is sustained while testosterone concentrations remain above normal.


Dietary salt affects biochemical markers of resorption and formation of bone in elderly women

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High dietary intakes of sodium chloride increase calcium and are considered a risk factor for osteoporosis. We investigated the short term effects of salt intakes of 70 and 170 mmol/day on variables of resorption of bone (urinary hydroxyproline excretion) and formation of bone (serum osteocalcin concentration) in elderly women.

Subjects, methods, and results
Ten healthy volunteers (mean (SD) age 66.8 (1.3) years) consumed diets low in salt and with salt supplements (100 mmol daily in divided doses with meals) for 10 days each. During each regimen they did not add salt during cooking or at the table and avoided salty foods. Calcium intake was held constant (about 850 mg/day). Subjects took their normal diet for 10 days between the regimens. Twenty subjects eating a gelatin free diet. On day 11 blood samples were obtained after an overnight fast for calcium intake (Accepted 21 July 1989)

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