ooi-d-shaped *Giardia* cysts. A one-day oral treatment with ornidazole (Tiberal®, Roche) at dosage of 1,500 mg, then repeated after 2 weeks, was given. The cutaneous lesions gradually improved after the first dose of the drug. After one month, however, new papules on elbows appeared and a coproparasitological control revealed the persistence of the parasitic infection. A new cycle of ornidazole (1,500 mg/day for 3 days) was prescribed. One month later both cutaneous lesions and *Giardia* cysts in stools were still present. An alternative treatment with oral paromomycin (Humatin®, Parke-Davis), 500 mg q.i.d for 5 days was prescribed. The parasitological follow-up at 1, 3 and 6 months was negative and cutaneous signs and symptoms completely resolved.

REFERENCES


A Patient with a Mucocutaneous Eruption and Intestinal Giardiasis

K. Lammintausta1, P. Kotilainen2, U. Hobenthal2 and L. Talve3

Departments of 1Dermatology, 2Medicine and 3Pathology, Turku University Central Hospital, FIN-20520 Turku, Finland.

E-mail: kaija.lammintausta@tyks.fi

Accepted May 16, 2001.

Sir,

Acute neutrophilic dermatoses are a diagnostic challenge to clinicians and can sometimes mimic erythema nodosum (EN). Overlapping of the clinical dermatoses and their histopathology exists and the relationship between skin manifestations and potential etiologic factors may be indefinite. We describe here a case where the diagnosis of EN was established by biopsy and where intestinal giardiasis was recognized as a potential etiopathogenetic agent.

CASE REPORT

A 44-year-old woman presented with intermittent fever, up to 40°C, lasting 5 days and followed by painful skin nodules and pustules in association with stomatitis, painful vaginal erosions and arthralgia. The patient had been using contraceptive pills for about 3 years but was taking no other permanent medication. Neither had she any remarkable health problems, apart from a history of recurrent aphthous stomatitis, which recurred during the month before the present illness.

On examination, the patient appeared tired and sick. She complained about arthralgia in her knees. The lower legs were painful and swollen, with several inflamed, bright red, slightly raised nodules. The nodules (2 to 5 cm in diameter) also occurred on the arms, in the upper part of the body and in the genital mucosa. A central pustule was seen in some nodules and pustular lesions occurred diffusely in the skin. In the

Acta Derm Venereol 81
buccal mucosa, the patient had a couple of slightly red lesions after the healing aphthous stomatitis, and in the vaginal mucosa, 3 aphthae-like, 1–2 cm-wide painful erosions. Otherwise, the gynecological status was normal.

On admission, the serum C-reactive protein (CRP) was 280 mg/l (normal < 10 mg/l) and the erythrocyte sedimentation rate (ESR) was 26 mm/h. Peripheral blood white cell count was 19.7 × 10^9/l (normal 3.4–9 × 10^9/l) with 13.6 × 10^9/l (79%) polymorphonuclear and 0.03 × 10^9/l (0%) eosinophilic cells. The serum creatinine value was normal. Urinalysis showed microscopic hematuria and proteinuria; the daily protein excretion in the urine was 0.6 g. Liver function tests were normal as well as an X-ray examination of the lungs. On admission, the patient had intermittent fever, and because of suspected septic bacterial infection, intravenous ceftriaxone (2 g daily) was started. When the fever persisted, 4 days later, Behcet’s disease was then suspected. The clinical examination by the neuro-ophthalmologist was normal and no parthergy was observed. Owing to the strong suspicion of a reactive state, oral prednisolone (60 mg daily) was started. One day later the temperature of the patient had normalized, her general condition remarkably improved, the CRP had decreased to 70 mg/l and ESR was 32 mm/h. Oral prednisolone medication continued for 2 weeks, at decreasing doses. The patient was then symptom free and the CRP was 2 mg/l.

A skin biopsy, taken 2 days after admission and before commencement of corticosteroid treatment, revealed a mild perivascular infiltrate of lymphocytes in the upper dermis. Deeper in the dermis there was dense infiltration of mainly neutrophilic granulocytes with some histiocytes, which also infiltrated the adipose tissue septa corresponding to histopathology of lobular panniculitis. A diagnosis of EN was made.

Detailed serological tests for viruses, bacteria and other infectious agents were performed to reveal a potential infectious etiology of the patient’s disease. No remarkable increase in antibodies to the Streptococcus, Staphylococcus, Borrelia, Salmonella, Campylobacter, Yersinia, Mycoplasma or Chlamydia species was detected. Neither was there any evidence of acute or recent infection caused by cytomegalovirus or Herpes simplex virus. No remarkable findings were detected in the bacterial cultures taken from the blood, skin swabs, urine and feces or in the Herpes simplex culture taken from the genital erosions. However, when the fecal parasites were examined, fecal carriage of Giardia lamblia was detected. The patient had visited Egypt 4 months earlier, and suffered from diarrhea at that time. She was now given a one-week course of metronidazole (800 mg 3 times a day) orally, simultaneously with the prednisolone medication.

Two weeks later, in a visit to our outpatient clinic, it was found that the patient was completely healed.

DISCUSSION

We consider that the hidden giardiasis could have been the triggering agent of the mucocutaneous manifestations in our patient. This concept is conceivable, since different gastrointestinal pathogens have been mentioned as etiologic agents for EN (1, 2) and other immune-complex mediated phenomena (3). Review of the literature revealed two previous reports, where giardiasis was suspected as an etiologic agent for EN (4, 5). Previously, giardiasis has been associated with various other reactive skin manifestations, such as chronic urticaria, Quincke’s oedema, urticaria vasculitis and Well’s syndrome (6, 7).

Systemic diseases associated with EN include sarcoidosis, inflammatory bowel diseases, and malignant diseases. Our patient did not show any signs of these diseases. The panniculitis, the pustular lesions, aphthous mucosa and arthralgia as well as the clinical and the histopathological findings were reminiscent of Behcet’s disease (8). There were no neuro-ophthalmologic symptoms, but their occurrence is known to be variable (9). Although the patient recovered completely during corticosteroid therapy followed by oral metronidazole, the possibility of Behcet’s disease must be reconsidered, if similar symptoms recur.

The clinical features of our patient also resembled those of Sweet’s syndrome. Unfortunately the apparently pustular skin lesions, which occasionally were deep and nodular, were not biopsied. Overlapping cases of Sweet’s syndrome and EN have been reported earlier (10). Simultaneous occurrence of Behcet’s disease and Sweet’s syndrome has also been suspected in occasional cases (11–13), reflecting the difficulty in making definite differential diagnoses in some cases.

Several drugs, including contraceptive pills, have been described as causing EN, although the association tends to be uncertain (1, 2, 14). Our patient had used contraceptive pills for years and afterwards she continued with the same type of contraception. Thus, it could only have had some co-influence on other simultaneous triggering factors.

This case provides further data on the potential association between EN-like lesions, neutrophilic dermatoses and intestinal giardiasis. It is recommended that the possibility of intestinal giardiasis should be considered in patients with a reactive panniculitis corresponding to EN.

REFERENCES