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Eosinophilic cellulitis (Wells' syndrome)

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Eosinophilic Cellulitis (Wells' Syndrome): Treatment with Minocycline

Sir

Tetracyclines have been widely used in dermatology as antibiotics in acne. More recently, they have also been used as immunomodulators in non-infectious skin disorders (1). Especially those dermatoses that are mediated by eosinophilic granulocytes (2), like bullous pemphigoid, appear to respond favourably to tetracyclines. Here, we report a case of eosinophilic cellulitis (Wells' syndrome) that responded well to oral minocycline.

CASE REPORT

A 75-year-old woman presented with a history of recurrent itchy and painful swellings, which had started in the summer. The lesions occurred on the hands, wrists, face and lower legs and slowly resolved in 2–4 weeks, leaving slate grey pigmentation. She noticed a relation with stripping of plants (*Salvia*) in her garden. There was no history of insect bites. Her medical history included a low-grade non-Hodgkin's lymphoma, which had responded well to chemotherapy 7 years earlier and had been in stable partial remission since then. She had also had herpes zoster, thrombosis, recurrent urinary tract infection and adverse skin reactions to diclofenac and terbinafine.

Physical examination of the skin showed up to 6 cm large, dome-shaped, erythematous, firm oedematous swellings on the right jaw and the forehead, with vesicles discharging a clear exsudate. The eyelids were swollen. On her hands and lower legs erythemato-squamous lesions of previous nodi were present. In the neck and inguinal area reactive lymph nodes were palpable.

Histological examination of lesional skin showed perivascular and interstitial infiltrates, consisting of eosinophilic granulocytes and lymphocytes reaching the septa of subcutaneous adipose tissue. The dermis showed oedema and basophilic degeneration of collagen bundles, some covered by eosinophilic material ("flame figures").

Immunofluorescence microscopy of lesional skin showed intraepidermal vesicles filled with numerous eosinophils, and in the dermis discrete granular deposits of fibrin and IgM, with clusters of IgG and fibrin-coated collagen bundles. In the vessel walls granular deposits of complement C3c were found. In normal skin no immune deposits were present. There were no circulating auto-antibodies detectable with monkey oesophagus substrate.

Laboratory investigations of peripheral blood showed increased levels of eosinophilic granulocytes 1.57 10E9/l and 19.7%, ESR 79 mm/lh, IgE > 2000 E/ml, IgG 17.5 g/l with an IgG lambda paraprotein and C-reactive protein 16 mg/l. The following laboratory studies were either negative or within normal limits: haemoglobin, platelet count, serum IgA and IgM, alpha-1-antitrypsin, liver- and kidney screening test, antinuclear antibody, antistreptolysin, serologic tests for *Borrelia burg-dorferi*, cytomegalovirus, *Toxoplasma gondii*, *Echinococcus ascaris*, toxocara, *Entamoeba hystolitica*, *Taenia solium*, *Treponema pallidum*, Epstein–Barr virus and human immunodeficiency virus. Urinalysis showed leukocytes. Parasitologic examination of faeces was negative. CT-scan revealed a diffuse lymphadenopathy in the neck.

Allergic patch tests with the European standard series were negative. Patch tests and UVA-photopatch tests with *Salvia* leaf, stem and root were negative.

Urologic consultation revealed that the recurrent urinary tract infection was caused by urine residue due to insufficient bladder turgor. The treatment with antibiotics had no time relation with the skin swellings.

A diagnosis was made of eosinophilic cellulitis (Wells' syndrome). Treatment was started with minocycline 100 mg b.d. and niacinamide 500 mg t.d. for 2 weeks. All lesions cleared within 48 h after starting this therapy. One month later, a relapse occurred on the forehead with swelling of the eyelids, which again was treated with minocycline and niacinamide for 4 weeks. Again the swellings resolved quickly after initiation of the therapy. During this treatment period three minor episodes of swellings occurred, which had a duration of

less than 4 days, without swelling of the eyelids.

The lymphadenopathy in the neck was interpreted as a relapse of the low-grade non-Hodgkin's lymphoma. Treatment with leukeran was successful but had no apparent effect on the skin lesions.

The next relapse occurred the following summer, 7 months after cessation of the minocycline therapy. Now, only minocycline 100 mg d.d. without niacinamide was prescribed for 1 week, after which the swellings also resolved quickly. The patient was free of lesions for 2 months without therapy. Relapses were treated with a short course of minocycline alone.

DISCUSSION

The therapy of choice in eosinophilic cellulitis is low-dose oral glucocorticocosteroids, continuously or intermittently. Also dapsone or griseofulvin may be successful. We used minocycline in addition to niacinamide, as derived from protocol in bullous pemphigoid (2). In our patient, the frequency and severity of the eruptions subsided with minocycline 100 mg per day with or without the addition of niacinamide.

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