Successful Treatment of an Elderly Patient with Refractory Ultraviolet-A-sensitive Atopic Eczema with Mycophenolic Acid

Michael Bär, Jochen Schmitt, Andrea Bauer, Gottfried Wozel and Michael Meurer
Department of Dermatology, Medizinische Fakultät Carl Gustav Carus Dresden, DE-01309 Dresden, Germany.
E-mail: Michael.Baer@uniklinikum-dresden.de
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Case Report
At first presentation in January 2007, an 82-year-old man had a one-year history of an extremely itchy, light-sensitive, eczematous rash involving his face, trunk and upper extremities. Clinical symptoms were resistant to topical corticosteroids and oral antihistamines. A transient benefit was seen during systemic therapy with prednisolone, but acute exacerbation followed after prednisolone had been tapered off. Personal and family history was positive for AE, but not for respiratory atopy. Owing to arterial hypertension with incipient hypertensive nephropathy the patient was treated with daily doses of ramipril 5 mg, valsartan 80 mg, and hydrochlorothiazide 12.5 mg.

On examination he presented with a widespread infiltrated, erythematous, scaly rash on the light-exposed areas of the face, trunk and extensor parts of the arms. The lesions were partly lichenified and excoriated. Laboratory investigations revealed anaemia (haemoglobin 8.18 mmol/l, normal 8.6–12.1 mmol/l), lymphopaenia (11%, 20–49%), discrete elevation of renal function (creatinine 135 µmol/l, < 124 µmol/l), proteinuria (0.57 g/l after collection of urine for 24 h, < 0.12 g/l), and a marked elevation of total IgE 3 543.0 kU/l (< 20 kU/l), total specific IgE against inhalative allergens 25.9 kU/l (< 0.35 kU/l), total specific IgE against food allergens 9.1 kU/l (< 0.35 kU/l), Dermatophages pteronyssinus CAP class 2, timothy CAP class 3, alder CAP class 3, birch CAP class 3. Swabs were taken and Staphylococcus aureus colonization was diagnosed.

The initial skin biopsy in January 2007 showed superficial perivascular and interstitial dermatitis consisting of a lymphohistiocytic and eosinophilic infiltration with little spongiosis suggestive for subacute or chronic dermatitis without signs of cutaneous lymphoma. Ultraviolet (UV) light testing revealed a pronounced UVA hypersensitivity with the development of...

Fig. 1. (a–d) Widespread and infiltrated, in part lichenified and excoriated erythematous scaly rash, particularly on light-exposed areas, shown before systemic treatment with mycophenolic acid (January 2007).
an extensive itchy rash in the UVA-irradiated areas frustrating the determination of the corresponding UVA dose. Late-onset UVA-sensitive AE was diagnosed. Due to the refractory course, systemic therapy was necessary. Standard options were contraindicated because of hypertensive nephropathy and anaemia. Thus, the patient was started off-label on mycophenolic acid, at a daily dose of 1440 mg. Owing to staphylococcal superinfection, topical treatment was initially supplemented by an oxychinoline 0.25% ointment. Topical treatment with betamethasone 0.1% was continued until the end of March and the patient was informed about consequent textile and chemical light protection.

After 2 months of treatment, an almost complete resolution of the eczema was seen. Only residual erythema on the chest, discrete hyperpigmentation and epidermal atrophy were affecting about 5% of body surface. Mycophenolic acid treatment was reduced stepwise since April and stopped in June 2007. Laboratory investigations showed no relevant changes. Topical treatment with betamethasone 0.1% was discontinued 10 weeks after initiation of mycophenolic acid. Today, about 8 months after initiation of treatment with mycophenolic acid, the patient is still in complete remission, only showing residual sebostasis without the need for further systemic treatment so far.

**DISCUSSION**

This case confirms the effectiveness of mycophenolic acid as the active metabolite of mycophenolate mofetil in an enteric-coated formulation in an elderly Caucasian man with late-onset light-sensitive AE. Although this patient was not the first to be treated successfully with mycophenolic acid, this case shows that this treatment option may be considered in elderly patients, as well as in patients with UVA-sensitive disease. Controlled studies will be necessary to evaluate the subset of patients with severe AE who benefit most from this drug.

**REFERENCES**