Chloroquine-induced Vitiligo
A Case Report and Review of the Literature

Sir,

Hyperpigmentation of the skin is reported in 10–25% of patients receiving antimalarials for more than 4 months (1). Hypopigmentation of hair and freckles is another pigmentation disturbance which has been observed (2). Vitiligo-like hypopigmentation of the skin has been described in 4 Africans with dark skin. We here present a patient who developed hypopigmentation on the face when taking chloroquine for malaria prophylaxis.

CASE REPORT

A 6-year-old girl of Ethiopian origin, born in Norway, was presented at our department in the spring of 1994 because of depigmented

Fig. 1. Depigmentation on the face, especially in the periorbital area. Note the darker areas on the glabella, indicating repigmentation only a few weeks after discontinuation of the chloroquine therapy.

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Fig. 2. Almost complete repigmentation 18 months after the first clinical examination.

REFERENCES


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patches in the face. Since the age of 2 years she had been suffering from atopie eczema. She was otherwise healthy. There was especially no previous history of vitiligo, thyrotophy or other autoimmune diseases in her nor in her nearest family. The depigmentation had started when visiting Eritrea. As a prophylactic against malaria, she had been given 250 mg chloroquine weekly. After 3 weeks of therapy the parents noticed the first skin changes in their daughter. The girl experienced no subjective complaints. There were no signs of visual disturbances; she played as usual and got a lot of sun and fresh air. In all she received ten tablets of chloroquine before the family returned to Norway. Here the parents discontinued the medication. After an initial attempt with antymyotic ointment, she was seen in our department showing the classical picture of vitiligo (Fig. 1). Clinical controls at 1, 3, 6 and 18 months (Fig. 2) showed almost completely repigmentation of the skin. The repigmentation did not seem to start perifollicularly; instead patchy repigmentation was seen.

DISCUSSION

Hypopigmentation of the skin during chloroquine therapy has been reported in 4 patients only (3–5). All of the patients were Africans with dark skin, who had been exposed to the African sun. After discontinuation of the drug therapy, the skin rapidly repigmented. In 2 of the patients, the retinopathy which developed during the malaria-prophylaxis did not improve (3). One patient had a reduced minimal erythema dose in the UVB range during the chloroquine therapy, and the phototest showed positive reactions to chloroquine and UVA (4). The 4th patient received chloroquine for rheumatoid arthritis. He also experienced repigmentation after cessation of therapy, but he received ascorbic acid 100 mg daily as placebo (5). Interestingly, factors which influence the binding of chloroquine to melanin are those typical of cation exchange. It has been shown that the free radical content of melanin is reduced by pretreatment with ascorbic acid (6), which could explain the clinical improvement in this patient. Abnormal reactions to sunlight have previously been observed in patients on chloroquine therapy.

In conclusion, the skin depigmentation in our patient resolved almost completely upon discontinuation of the chloroquine therapy. Although, like the other 4 patients described, she was exposed to intense sunlight, one may only speculate whether the underlying mechanism for the depigmentation is a photosensitivity reaction.

REFERENCES


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Bullous Scabies

Sirs.

Scabies is an infestation caused by Sarcoptes scabiei. It is characterized by polymorphous lesions, like burrows, papules, nodules, excoriations and crusts, while vesiculal and bullous lesions are very rare (1–11). We here report a case of bullous scabies which, on the basis of the clinical and histopathological picture, mimicked bullous pemphigoid.

CASE REPORT

A 66-year-old woman was admitted because of a widespread eruption which had appeared approximately 2 months before and was accompanied by intense pruritus. The patient was in good general condition and, before admission to our institute, she had not been given any topical or systemic treatment.

Dermatological examination showed the presence of widespread polymorphous lesions (erythema, papules, vesicles) in the axillae and on the sides, pubis, buttocks and thighs. Furthermore, bullae containing clear serous or haemorrhagic fluid, erosions and crusts on an erythematous bases were present on the arms, forearms (Fig. 1) and legs. There were also widespread linear excoriated lesions. General physical examination was normal. Laboratory tests demonstrated a moderate increase in the inflammatory indices (ESR: 32 mm at the 1st hour, alpha 1 acid glycoprotein: 129 mg/dl) and slight leukocytosis (9,660 WBC/mm³) with eosinophilia (12%). Bacteriological and mycological examinations of 2 lesions, one vesicular and the other bullous, proved negative. A Tzanck preparation was negative for acantholytic cells. The patient was subjected to 2 biopsies: one on a papulo-vesicular lesion and the other on a bullous lesion. Histopathological examination of the first biopsy showed mild acanthosis, focal spongiosis and oedema of the papillary dermis. A superficial diffuse and perivascular lymphocytic infiltrate with many eosinophils and plasma cells was also present. In the second biopsy we observed several dermo-epidermal clefts filled with fibrin and focal spongiosis. In the papillary dermis a slight perivascular lymphocytic infiltrate with many eosinophils was seen. Direct immunofluorescence (DIF) showed on two occasions granular deposits of C3 at the dermo-epidermal junction (DEJ) and in the vessel walls of the superficial dermis. Indirect immunofluorescence (IF) was negative.

On the basis of the clinical and histopathological picture, and in spite of the results of the DIF, a diagnosis of suspected bullous pemphigoid was made.

The patient was about to be treated with systemic corticosteroids when she declared that her brother too just had developed a papular eruption accompanied by intense pruritus. He presented with a classical form of scabies and was in fact positive for Sarcoptes scabiei.

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