Introduction

Nonpustular annular psoriasis is a rare form of psoriasis with clinically annular ring-shaped configuration [1]. In contrast to recurrent circinate erythematous psoriasis (Psoriasis a type d’erytheme circine recidivant de Bloch) [2], which is the mildest form of pustular psoriasis, no evidence of histopathological Kogoj’s spongiform pustule formation is detected.

Results and Discussion

A 57-year-old Japanese woman had a 4-year history of annular erythematous plaques on her four extremities (Figure 1a). She denied either pustule or vesicle formation during the course. Physical examination revealed slightly elevated 5-10cm-sized annular erythematous plaques accompanied with small lamellar scales without pustules. There were no typical non-annular plaque lesions of psoriasis. The annular lesions had been improved by corticosteroid and active vitamin D3 ointments. She had no family history of psoriasis. The annular lesions had been improved by corticosteroid and active vitamin D3 ointments. She had no family history of psoriasis.

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The patient was not accompanied by clinical pustule formation 3. Previous report indicates that 5 out of 15 annular pustular psoriasis cases, which is recurrent circinate erythematous psoriasis (Bloch), were not accompanied by clinical pustule formation 3. However, histopathological studies consistently showed spongiform pustules in all these cases [3]. Terunuma et al. [4] and Guill et al. [1], reported three cases of nonpustular annular psoriasis, and suggested that annular psoriasis has features of both typical plaque-type psoriasis and pustular psoriasis, and regarded as an intermediate disease entity of the two. Thus careful follow up of this case should be performed for the possible evolution of pustular psoriasis in the future.

Differential diagnosis of the case includes recurrent circinate erythematous psoriasis (Bloch), circinate annular pustular psoriasis, pityriasis rosea, Sjogren’s syndrome, subacute cutaneous lupus erythematosus, tinea corporis, erythema gyratum repens (EGR) and erythema annulare centrifugum. These can be differentiated by laboratory investigation and histopathological analysis. Specifically recurrent circinate erythematous psoriasis (Bloch), though clinically similar, is characterized by the presence of histopathological Kogoj’s spongiform pustule formation. Clinical feature of EGR is characteristic and shows rapidly migrating erythema composed of concentric rings forming a wood-grain pattern. Furthermore, the patient had no evidence of internal malignancy. Thus we excluded the diagnosis of EGR. Erythema annulare centrifugum was excluded by histological findings showing no coat-sleeve-like mononuclear cell infiltration.

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Summary

Nonpustular annular psoriasis is a rare form of psoriasis with clinically annular ring-shaped configuration. In contrast to recurrent circinate erythematous psoriasis, which is the mildest form of pustular psoriasis, no evidence of histopathological Kogoj’s spongiform pustule formation is detected. We report a case of 57-year-old Japanese woman with nonpustular annular psoriasis for 4 year.

Figure 1: (a) Numerous well-demarcated, annular erythematous plaques on the right lower extremity. Clinically no pustule formation is detected. (b) Histopathology of the scaly edge of the lesion on the right forearm showing hyperplasia and elongated dermal papillae with mononuclear cell infiltration. No Kogoj’s spongiform pustule is detected. Magnification is 200X.
References


