Dear Editor,

Although the pathogenesis of eosinophilic pustular folliculitis (EPF), a clinical entity proposed by Ofuji et al., remains unclear, it has been speculated that T-helper type 2 (Th2) immune responses are important. It is reported that successful pregnancy is a Th2-related phenomenon. To our knowl-

Two cases of eosinophilic pustular folliculitis associated with pregnancy

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edge, six cases of EPF associated with pregnancy have been reported in the published work. We report two additional cases of EPF associated with pregnancy.

Serological tests for HIV were negative in both cases. In case 1, a 30-year-old Japanese woman in the 10th week of her first pregnancy presented with a 5-week history of pruritic eruptions. Topical steroid was ineffective. Her medical history was unremarkable except atopic dermatitis. Physical examination revealed many pustules on coalescent, erythematous plaques on the edematous face (Fig. 1a). A number of pustules and pustules were disseminated on the trunk, arms and legs without tendency to coalesce. Blood tests revealed a white blood cell count of 17,090/μL (19.3% eosinophils) and a total immunoglobulin E level of 561 IU/mL. Histological examination showed many eosinophils in the outer root sheath and sebaceous gland (Fig. 1b). Oral prednisolone was effective. Prednisolone was discontinued immediately after the spontaneous abortion due to intrauterine infection in the 16th week of pregnancy. Eruptions recurred in approximately 2 weeks. Oral indomethacin was ineffective. Dapsone therapy was effective in combination with prednisolone but was stopped because she desired to get pregnant, although prednisolone therapy was continued. There was little recurrence of skin lesions until her second pregnancy. She suffered from itchy papules mainly on the hands and feet during the first and second pregnancy trimesters. She gave birth to a healthy boy at full term. Prednisolone was tapered and discontinued after delivery. No relapse was observed for 2 years.

In case 2, a 26-year-old Japanese woman in the 15th week of her first pregnancy presented with a 3-day history of pruritic eruptions. Her medical history was unremarkable except atopic dermatitis. Physical examination revealed erythematous plaques with pustules and erosions on the edematous face, ears and neck (Fig. 1c), and papules on the dorsal surfaces of the hands. Blood tests revealed a white blood cell count of 14,030/μL (11.3% eosinophils). Histological findings were similar to those of case 1 (Fig. 1d). Topical steroid was effective. She gave birth to a healthy boy at full term. No recurrence was observed for 5 years.

Out of eight cases of EPF associated with pregnancy, including our two cases, four suffered from the disease after the start of pregnancy. The others got it prior to pregnancy and experienced exacerbation of EPF during pregnancy. In one case, the exacerbation was associated with each of three pregnancies. In another case, EPF developed prior to the onset of pregnancy, deteriorated in pregnancy and resolved following delivery. In one of ours (case 1), EPF developed after the start of the first pregnancy and relapsed during the second pregnancy. Although further information is needed, these may indicate that pregnancy and EPF are correlated through Th2-type immune responses.

**CONFLICT OF INTEREST:** None declared.

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