INTRODUCTION

Generalized pustulous psoriasis (GPP) is a rare type of psoriasis first described in 1910 by Von Zumbusch and it is considered the most severe type of this illness. Baker and Ryan classified this type of psoriasis in four forms: von zumbusch, annular, exanthematous and localized (except for acral and palmo-plantar). None of these types are mutually exclusive. This generalized form of psoriasis is characterized by the development of subcorneal sterile pustules superimposed on erythematous basis. There are less than 200 cases of the von zumbusch form in children, described in medical literature. The report of this case is due not only to its rarity but also to its therapeutic challenge.

CASE REPORT

Male patient, aged 1 year and 8 months old, whose mother stated that since he was 2 months old
he had presented pruritic punctated papules and pustules spread on his body, including genitalia, sparing mucous. The pustules tended to flow forming an area of pus on erythematous basis. The patient also presented fever and adynamia. The use of systemic antibiotics and corticosteroids would bring partial and temporary improvement on the condition but always followed by new episodes of recrudescence. It was also reported that the patient's father presented similar condition in childhood with spontaneous remission. Dermatologic exam showed erythematous plaques, desquamative, with generalized pustules and areas with meliceros crosts, with little area of integument spared. In some areas the erythematous plaques were bordered by pustules giving a circinate aspect to the lesions (Figures 1 and 2).

Among the relevant laboratory exams were leukocytosis of 22,300 (Reference Value -RV: 5 to 10 thousand); anemia with hemoglobin of 10,8% (RV: > 12,5 to 17,5) and hematocrit of 31% (RV:40 to 54%); platelets of 670 mil /mm³ (RV: 150 to 450 mil/mm³); erythrocyte sedimentation rate of 41 mm in the first hour (RV: 3 to 20) and C-reactive protein of 6 mg/L (RV: <6).

Histopathologic exam showed subcorneal vesicle keeping fibrino-leukocytic exudate in the light and epidermis showing acanthosis, with discreet hyperkeratosis and small areas of parakeratosis. There was mononuclear infiltrate with groups of neutrophils in the dermis. (Figures 3 and 4). This result was compatible with the clinical suspicion of pustulous psoriasis.

The patient was medicated with 5 mg dapsone every 12 hours and 10 ml of ferrous sulfate daily. The condition evolved in three months with weight loss following the suspension of topic corticosteroid, resolution of fever and improvement in adynamia. There was partial regression of the previously mentioned lesions although new lesions appeared. The patient presented pustules with erythematous basis on the back, abdomen and thorax (Figures 5 and 6). Dapsone was kept and it was planned to introduce cyclosporin in case there was not a satisfactory response to the treatment.
DISCUSSION

Generalized pustulous psoriasis (GPP) is rare in children. It can occur in infancy, at any age, but it is more common in the first year of life. Different from psoriasis in adult GPP, in children, it has a higher prevalence in the male sex in a proportion of 3:2. Epidemiological and immunogenetic data have shown hereditary predisposition for psoriasis. Participation of HLA genes has been studied being greater the co-relation found with the HLA-Cw6.

As for this report the patient presented family history of similar lesions, which reinforces the important role of heredity in psoriasis. Possible differential diagnoses include staphylococcal scalded skin syndrome, Reiter’s syndrome, generalized candidiasis, atopic dermatitis, seborrheic dermatitis, pustular milia and acute generalized exanthematous pustulosis. Clinical data presented associated with typical PPG histopathology confirmed the diagnosis. The von zumbusch type is an acute form that presents itself by sudden eruption of sterile papules on erythematous basis accompanied by severe systemic symptoms such as fever and pain and, sometimes, endangering the patient’s life.

In the reported case the patient presented fever and adynamia as signs of gravity pointing to the immediate need to initiate systemic therapy. Perhaps due to the rarity of the disease a safe and consistently effective treatment for the disease has not been identified yet. The therapeutic options already published include systemic retinoids, cyclosporine A, PUVA, UVBnB, methotrexate and dapsone, apart from topic treatments. Another recent option are the so called biologic such as infliximab and etenarcept still incipiently used in children with GPP. As for the case reported here the option was dapsone as it is a relatively safe drug and also due to the large experience of the service with this drug used in many other illnesses. Response to this treatment was partial following the first trimester of treatment. It was programmed the use of cyclosporine for the next consultation in case there was not effective control of the disease. GPP in children tends to have a more benign development than it has in adult patients. However, the disease in its more severe form can endanger the patient’s life. Immediate introduction of systemic therapeutics is needed. In this suity it was reported the experience of the use of dapsone that can be considered a moderately effective drug for the treatment of such illness.
REFERENCES


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