



PHOTOTHERAPY, PHOTODYNAMIC THERAPY

EFFECTIVE TREATMENT OF GENERALIZED ERUPTIVE KERATOACANTHOMA OF GRZYBOWSKI WITH ACITRETIN AND ULTRAVIOLET B PHOTOTHERAPY

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Background: A 58-year-old woman had been suffered from mucosal involvement for 6 months and subsequently follicular papules on her trunk and extremities for 2 weeks when she first presented to our hospital in April, 2017. She was diagnosed as Behcet's Disease and received the treatment of prednisolone (50 mg/d), then skin lesions were subsided. However, extensive pruritic papules and nodules with central umbilication gradually appeared on her trunk, extremities and even face after 2 months. She presented to our hospital 1 year later in April, 2018. She had no significant past or family history.

Observation: Laboratory testing showed elevated IgE (1510 IU/mL) and Interleukin-2R (1976 U/mL), positive results of EBV-IgG and T-SPOT, and negative results of EBV-DNA quantity, CMV-IgG, PPD test and pemphigus antibodies. OGTT test showed elevation of 1-hour, 2-hour, 3-hour post-meal and plasma glucose glycated hemoglobin. Skin biopsy revealed a central crater filled with keratin and glassy appearance of keratinocytes along with Neutrophils infiltration consistent with the manifestations of keratoacanthoma. The diagnosis was generalized eruptive keratoacanthoma of Grzybowski (GEKA). Then we gave her the treatment of acitretin which began from initial dose of 20 mg/day and maintenance dose of 30 mg/day, and narrow band ultraviolet B phototherapy (NB-UVB) which delivered the energy from 400 to 2400 mJ/cm² for 3 and a half months. Pruritus was significantly improved and skin lesions were almost regressed, and no side effects were observed. GEKA, with late onset and widespread dissemination may have both cutaneous and mucosal involvement without certain genetic background. Approximately 40 cases have been reported, and there is no definite successful therapy available. Acitretin and NB-UVB therapy showed remarkable curative effects in this severe case, which is the first report as in our knowledge.

Key message: Generalized eruptive keratoacanthoma of Grzybowski, acitretin, narrow band ultraviolet B phototherapy

