Clinical Application of MEBO in Treating Skin Ulcer Resulted from Vegetative Solar Dermatitis

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[Abstract] Purpose: Report the therapeutic result of treating ulcers caused by vegetative solar dermatitis with MEBO. Method: On the basis of antihistamine therapy, applied MEBO/MEBT on the ulcers located at opisthenar and face, assisted with topical debridement and respectively administration of antibiotics. Result: Topical thermalgia and numbing vanished in 5 minutes after applying the drug, lesion healed in 10 to 18 days. Conclusion: Although the pathological mechanism of vegetative solar dermatitis remained unclear, MEBO gained significant therapeutic results on the ulcers that caused. Worth promoting.

[Key Words] Vegetative solar dermatitis; Skin ulcers; MEBO

Vegetative solar dermatitis is due to eating plenty of kinds of potesthesis vegetables, after sun shined, lead to an acute inflammation on exposed site, such as face, hands, and foot. Since 1995 to June, 1998, authors had treated vegetative solar dermatitis due to eating Chenopodium album and then had solar illumination, in which 11 cases complied with skin ulcers. Treated with MEBO and gained satisfied therapeutic results. Reports as follow:

Clinical Information

1. General Data: 10 females and 1 male. Age ranges from 16 to 38 years old. 11 cases of necrosis and ulcers on both opisthenars, area from 3.0cm×3.5cm to 4.0cm×5.0cm. 5 cases complied with facial ulcers, area from 1.5cm×2.0cm to 2.0cm×2.5cm. 11 cases complaint obvious topical thermalgia and numbness, and 3 cases complied with fever.

2. Treatment: Cases treated with MEBO are those skin necrosis and ulcers after degradation of swelling under antihistamine therapy of vegetative solar dermatitis. 5 cases in 11 cases took antibiotics by oral as long as applied fluocinonide ointment combined with erythromycin ointment for 4 days with unsatisfied results that thermalgia aggravated and swelling on the ulcers expanded, then, we switched to MEBO. Simple management on the lesion, irrigated ulcers by normal saline, lifted necrotic and putrid skin tissue by forceps or clamps and removed them by scissors, tried best to protect the skin and subcutaneous tissue with vitality, then, used spatula to apply MEBO on the lesion with thickness of 1mm, reapplied every 4 hours and slightly stroke off liquefactions and remained ointment by spatula previously. Increased frequency to keep lesion clean and moisture but not macerate. Exposed the lesion without dressing. It was summer and autumn during treatment with appropriate temperature that benefited therapeutic result of MEBO. 3 cases of fever in 11 cases took antibiotics by oral while others did not.
Therapeutic Result Observation: Thermalgia and numbness vanished in 5 minutes after applying the drug, and formed a thin layer in 2 days later where can find fresh granulation and epithelialization beneath. Apparent epithelial island in 5 to 7 days, red-purple pigmentation on the lesion and surrounding skin gradually degraded in 5 to 9 days, and lesion healed in 10 to 18 days. No infection, no escharation and no dysfunction.

Discussion

The pathological mechanism of vegetative solar dermatitis remained unclear and may categorize in photoallergy. Chenopodium album, Portulaca oleracea, etc., contain potesthesis substances or may form potesthesis substance inside body after eating. If these potesthesis substances reached certain concentration, later, received sun light illumination, which could form photochemical products, which bound with protein inside body, and produce antigenicity that can stimulate allergic reaction in organism and leaded to illness. [1]

MEBO usually been used in treating burns and scalds, with advantages of obvious antalgesia, strong antiinflammation, rapid lesion cure, mild escharation, etc.[2.3] Yet, it is rarely report on treating ulcers caused by vegetative solar dermatitis. 11 cases in this group that applied MEBO in treating ulcers caused by vegetative solar dermatitis gained apparent therapeutic result.

1. Obvious Antalgesia: Main symptoms of ulcers caused by vegetative solar dermatitis are topical thermalgia and numbness. Simple debridement and 5 minutes after applied MEBO, both main symptoms gradually vanished and reached an obvious antalgesia that appreciated by patients, even regard as “magical ointment”. The mechanism is the comprehensive effects that constantly moist the lesion, protects remained skin and subcutaneous nerve terminals, and reduces topical algiesiogenic metabolites, thus, reaches obvious antalgesia.

2. Strong Antiinflammation: Among 11 cases that applied MEBO, 8 cases administrated no antibiotics and none cases of lesion infection. It was a dramatic comparison to those with lesion swelling expanded that treated by taking antibiotics orally as long as applying fluocinonide ointment combined with erythromycin ointment. Mechanism: Formation of protective layer that isolated lesion from the air after applied MEBO can effectively stop bacterial invasion and reproduction, unobstructed drainage can discharge necrosis at the lesion promptly that protect normal process of lesion repair, and, directly or indirectly reached bacteriostasis and sterilization that improved granulation and epithelialization.

3. Promoting blood circulation for removing blood stasis, improving epithelialization, fasten lesion cure without escharation. In traditional Chinese medicine, ulcers caused by vegetative solar dermatitis categorized in heat pathogen that burns channel and collateral, stagnating channel, unsmooth flowing of blood and Qi, stagnation of Qi and blood stasis, malnutrition of muscle and skin, thus, lead to ulceration and decomposition. Improved microcirculation stasis and eventually
vanished red-purple pigmentation on the lesion and the surrounding skin after administrated MEBO/MEBT, thus, indicated MEBO contains Chinese herbal ingredients that can promote blood circulation for removing blood stasis, therefore, features obvious Qi conveyance and blood dispersion, promoting blood circulation for removing blood stasis, improving circulation. Due to comprehensive effect of MEBO and MEBT, ulcers were constantly moisture, infections were controlled effectively, slough was eliminated and granulation was promoted, necrosis were liquefied, drained, and discharged, blood circulation was promoted for removing blood stasis, blood circulation of the lesion and surrounding skin was improved to increase topical blood flow, to establish microcirculation, to enhance metabolism, to strengthen ability of topical immunity and antiinflammation, to improve epithelial regeneration as well as suppress the regeneration of collagen fibers. Therefore, speed healing without escharation.

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