



MEDICAL THERAPIES AND PHARMACOLOGY

OZONATED OLIVE OIL TOPICAL TREATMENT FOR MULTIPLE LEG ULCERS: A CASE REPORT

Indah Permata Sari⁽¹⁾

Department Of Dermatology, Ernaldi Bahar Hospital, Palembang, Indonesia⁽¹⁾

Background: Skin ulceration is a major source of morbidity and often difficult and challenge to manage. Leg Ulcers are a common symptom in patients with vascular disease, 95% chronic leg ulcers due to ischaemia, statis, vasculitis and hypertension. Ozonated olive oil is prepared by bubbling ozone gas into olive oil. It promotes granulation tissue formation and dermal reconstruction, induced blood coagulation and effective in the healing of ulcers. It is able to create a moist wound healing environment and due to the presence of ozonides it will act bacteriostatic.

Observation: A 32 years old male patient presented due to enlarging chronic multiple ulcers on his lower limbs since 4 months. Upon examination, seven ulcers are ranging from ten mm² to 200 mm² located on tibia and pre-Tibia. Exuding ulcers were shallow with irregular shape, exudate secretion, brown pigmentation surrounding skin was noted. There was no bone, tendon, ligament and muscles involvement. All laboratory data, including glucose level were normal. Patient was treated with ozonated olive oil topical. Exudate residual as well as the necrotic material were removed with gauze soaked in a normal saline. To avoid the infection, we gave an oral antibiotic: Ciprofloxacin 500mg twice a day for 5 days. Serial photographs of the evolution of lesion and eventual healing of ulcers are presented. A month after treatment, the ulcers showed improvement, partial re-epitelization without secondary infection. After six months, lesion recovered avoiding keloid, minimal scar and cutaneous discolorization. Ozonated olive oil in combination with routine cares is effective for treatment multiple ulcers. However, further studies are required in the future to confirm this result.

Key Message: ozonated olive oil, leg ulcer, ulcer treatment

