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Acceleration of infected/clean chronic non-healing wound by using Extremely Low Frequency Electromagnetic (ELF-EM) waves

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Statement of the Problem: Healing is a complex cascade of cellular events that generates resurfacing, reconstitution, and restoration of the tensile strength of injured skin. Factors that contribute to non-healing chronic wounds are diabetes, venous or arterial disease, infection, and metabolic deficiencies of old age. The wound healing process is not only complex but also fragile. Wound care encourages and speeds wound healing via cleaning and protection from re-injury or infection. Adequate control of blood glucose levels plays a crucial role in diabetic healing wound.

Aim: The aim of this study was to demonstrate a new method for enhancement wound healing process, through extremely low frequency electromagnetic waves (ELF-EMW-ELF-EM) at 0.7 HZ.

Methodology & Theoretical Orientation: Patients will be screened for fulfillment of the inclusion and exclusion criteria. Medical history, physical examination, Local and systemic signs and symptoms of infection, wound (infected/ clean) description and vital signs were evaluated. Bacteriological assessment as a swab was collected from infected site(s) before and after each session, for culture and identification of the causative pathogen, without the patient received antibiotic regimen. Patient was exposed to one session every other day till complete eradication of causative pathogen of the infection.

Findings: In infected wound, the bacteriological cultures revealed no growth for microorganisms by the end of sessions. Healing process monitoring was measured in infected as well as clean wound.

Conclusions: The resonance frequency of ELF-EM waves that inhibit bacterial growth will be promising method for the wound healing process.

Significance of the Study: This new non-invasive technique for treatment of bacterial infections and wound healing is of considerable interest for the use in medical and chronic non-healing wounds.

Biography

Mostafa Abohatab is a Fellow of the Royal College of Surgeons in Dublin. He spent years in research related to surgical complications of skin grafting, control of infected surgical wounds. He is a participating as a member in the team of the clinical trial to assess the role of ELF-EM waves in accelerating healing in infected and non-healing surgical wounds.

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