

# 12<sup>th</sup> Global Dermatologists Congress

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2<sup>nd</sup> Euro-Global Congress on

# Melanoma and Skin Diseases

August 31-September 01, 2017 London, UK

## Non-invasive (ELF-EM) waves technique for accelerating healing of infected burns

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**Statement of the Problem:** The skin, one of the largest organs in the body, performs numerous vital functions, provides primary protection against infection by acting as a physical barrier. When this barrier is damaged, pathogens can directly infiltrate the body, resulting in infection. The numerous pathogens that infect the wound are either Gram positive, Gram negative or Fungi. These pathogens are notable for their increasing resistance to a broad array of antimicrobial agents.

**Aim:** The aim of this study was to demonstrate a new method for the control of bacterial growth, through ELF-EM pulses at resonance frequency with the bioelectric signals generated from the microbe during cell division.

**Methodology & Theoretical Orientation:** Patients were screened for fulfillment of the inclusion and exclusion criteria. Medical history, physical examination, Local and systemic signs and symptoms of infection, wound 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 with an average of four exposure sessions, duration of each session depends on the causative organisms.

**Findings:** It was noticed and reported that the exposure of the infected burns, not only accelerated healing but also, accelerated bio-compatibility in cases of grafting.

**Conclusions:** The resonance frequency of ELF-EM waves that inhibit bacterial growth is a promising method for the treatment of infected burn.

### Biography

Mostafa Elnakib, MD Microbiology and Immunology, is a Consultant of Infection Prevention Control. He is also the Member of clinical trial team for assessment of the Non-Invasive (ELF-EM) waves technique, for accelerating healing of infected burns, to create new pathways for improving healthcare after years of working in research. This approach is important to change the policy of bacterial skin infection in different lesions and make a great benefit to all health care workers by this new way of treatment to alleviate the suffering of patients and give them hope in rapidly healing.

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