

Ultra-Low Microcurrent Therapy

A Novel Approach for Treating Chronic Resistant Wounds

Bok Y. Lee, MD, FACS Department of Surgery New York Medical College Valhalla, New York

Keith Wendell, PhD

American Institute of Regeneration Simi Valley, California
Mt. Tamborine QLD, Australia

Noori Al-Waili, MD, PhD Department of Surgery
North Shore University Hospital Manhasset, New York

Glenn Butler, CHT

Life Support Technology Group Mount Vernon Hospital
Sound Shore Health System Mount Vernon, New York

ABSTRACT

This study was undertaken to investigate the efficacy of ultra-low microcurrent delivered by the Electro Pressure Regeneration Therapy (EPRT) device for the management of chronic wounds. In this study, 23 patients with chronic skin ulcers and 2 with abdominal dehiscence that was present for an average of 16.5 mo, who were not responsive to standard conservative treatment in a hospital setting, were treated with the EPRT device. Wounds were treated with direct current (maximum of 3 mA) of 1 polarity for 11 .5 min and then with a current of the opposite polarity for another 11 .5 min. Treatment was applied through ultra-low microcurrents (in the mA to nA range) conducted through special wraps applied above and below the wound. The results revealed that 34.8% of cases achieved complete wound healing after an average of 45.6 h of treatment, and 39.1% achieved ~50% healing after an average of 39.7 h of treatment. Several patients achieved significant results after 1 to 2 treatments. The EPRT device not only accelerated healing but also appeared to negate the effect of a person's age on wound healing.