

Title of Abstract:

**Pulsed Radio Frequency Energy (Provant®) Wound Therapy in the Out-Patient Wound Clinic Setting: An Effective Therapy for Chronic Diabetic Ulcers**

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**ABSTRACT**

**Background:** Evaluation of the clinical effectiveness of Pulsed Radio Frequency Energy (PRFE)\* wound treatment technology for healing of Diabetic Foot Ulcers in an Out-Patient Wound Clinic setting.

**Methods:** This study was a prospective, open-label, non-comparative case series at 10 geographically distributed wound care clinics. Data collected included subject age, gender, wound type and location, age of wound and dimensions. All subjects were treated with PRFE therapy for 3-4 weeks. PRFE therapy was prescribed by physicians for use in the home as an adjunct to standard clinic wound care protocols.

**Results:** Twenty five (25) wounds identified as Diabetic Ulcers treated at wound clinics were studied. Among these, 5 were treated for 3 weeks and 20 were treated for 4 weeks. The average patient age was 61.2 years. Wounds were primarily foot ulcers, with mean wound surface area of 4.4 cm<sup>2</sup>. Wounds had an average age of 23.5 months. During the first month of treatment, 4% of wounds closed; 8% reduced in area by >90%; and 64% reduced in area by >50%. Overall, Diabetic ulcers reduced 23.8% in surface area, with a healing rate of 7.2 mm<sup>2</sup>/day.

**Conclusions:** PRFE therapy (Provant Wound Therapy System), prescribed for use in the home, is found to promote the healing of Diabetic Ulcers supervised by wound care physicians in an out-patient wound clinic setting.

\* PROVANT® Wound Therapy System (Regenesis Biomedical, Inc., Scottsdale AZ)