

## ZUSAMMENSTELLUNG VON WISSENSCHAFTLICHEN PUBLIKATIONEN ZUR WIRKUNG VON PULSIERENDER MAGNETFELD THERAPIE BEI DECUBITUS

1991

### **Accelerated wound healing of pressure ulcers by pulsed high peak power electromagnetic energy (Diapulse)**

#### **Abstract**

The purpose of this study was to evaluate the effect of pulsed high-frequency, high peak power electromagnetic energy (Diapulse) in the healing of pressure ulcers. Patients with Stage II ulcers unhealed within three to 12 weeks and those with Stage III ulcers unhealed within eight to 168 weeks by conventional methods were included in the study. When Diapulse was added to conventional therapy during the nine-month study, all 22 patients healed as evidenced by photographs and measurements of the ulcers. Stage II ulcers healed in one to six weeks (mean 2.33) and all Stage III ulcers healed in one to 22 weeks (mean 8.85). The increased healing time can provide significant cost savings and improved patient care.

1995

### **The effects of non-thermal pulsed electromagnetic energy on wound healing of pressure ulcers in spinal cord-injured patients: a randomized, double-blind study**

#### **Abstract**

The objective of this randomized, double-blind study was to determine if non-thermal pulsed electromagnetic energy treatment significantly increases the healing rate of pressure ulcers in patients with spinal cord injuries. Subjects included volunteers admitted to a Veteran's Administration Hospital in New York over a 2 year period and consisted of 30 male spinal cord-injured patients, 20 with Stage II and 10 with Stage III pressure ulcers. Subjects were given non-thermal pulsed high-frequency electromagnetic energy treatment for 30 minutes twice daily for 12 weeks or until healed. The percentage of pressure ulcers healed was measured at one week. Of the 20 patients with Stage II pressure ulcers, the active group had a significantly increased rate of healing with a greater percentage of the ulcer healed at one week than the control group. After controlling for the baseline status of the pressure ulcer, active treatment was independently associated with a significantly shorter median time to complete healing of the ulcer. Stage III pressure ulcers healed faster in the treatment group but the sample size was limited. For spinal cord-injured men with Stage II pressure ulcers, active non-thermal pulsed electromagnetic energy treatment significantly improved healing.

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