



## **Low Level Laser Therapy & Sciatic Nerve Regeneration clinical research follows testimonial**

### ***P. O'R, Nevada – (Sciatic nerve Pain)***

I am a 78 year old woman who suffered from excruciating pain for 25-years. As a young girl growing up in Ireland, I was instructed the proper way for a young lady to seat herself, with ankles crossed. In 1980, while seating myself in this manner at a wedding, the chair was pulled out from under me causing injury to my right leg, foot, instep, sciatic nerve, hip and low back. At the time of the accident, I was in good physical condition as I owned my own dance studio and taught Irish step-dancing. Throughout the years, I visited a long parade of doctors and lived on pain medication, and lived with the constant fear of being bumped as walking necessitated holding onto my husband's arm. My posture was stooped and my right foot was twisted out beyond the normal range of motion. Upon my first experience with the Q-1000 laser and the gold probe, I immediately felt lighter, not the heavy feeling I learned to live with. All pain was gone in minutes. As I stood up, I found that I stood erect and noted that my foot was now in the normal range allowing me to walk with ease. I no longer live on pain medication as I continue to use the laser every 2nd day. My husband placed the Q-1000 on his painful shoulder 2x and all pain is gone. He also is using it for his hernia with very very good results.

### ***David Getoff- Practicing Neuropathy – (Sciatic Pain)***

Elaine, approximately 50 years old, had recurring sciatic pain that ran down her leg. The pain usually lasted from 2-3 months, and re-occurred yearly. I told her that we should give the low level laser a try. I treated the origination point of the pain with the Rotary Multiplex laser for two 3-minute sessions. Elaine called me up the next day and said “David, it’s phenomenal - the pain is gone – in less than 24 hours it is completely gone!”

***William Neumann, Elk Grove Village, IL - (Nerve Pain)***

I was diagnosed with a swollen nerve in my back, and was having trouble walking and was in considerable pain all the time. I had tried physical therapy, which provided minimal relief, but only for short periods of time. I was headed for the operating table when a friend told me about low level laser therapy. After only one treatment I have been pain free since May 2003.

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**Effect of Ga-as laser on the regeneration of injured sciatic nerves in the rat.**

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Laser irradiation is one of the therapeutic methods for the recovery of degenerated peripheral nerves. The aim of the present study was to determine if low-power laser treatment stimulates the regeneration process of damaged nerves. A standardized crush to the sciatic nerve was applied to cause extensive axonal degeneration. After this procedure, low-power infrared laser irradiation was administered transcutaneously to the injured sciatic nerve, 3 minutes daily to each of four treatment groups for 1, 3, 5 and 7 weeks, respectively. A nerve conduction study was done, and a morphological assessment was performed using both light and electron microscopy. With trauma of the nerve, both amplitude of compound motor action potential and nerve conduction velocity decreased significantly compared to the pre-trauma state. Morphologically, the numbers of myelinated axons and degenerated axons were decreased and increased, respectively, compared with the control. Typical aspects were of onion skin-type lamellation, fragmentation, edematous swelling and rarefaction in the myelin sheath. All these parameters recovered almost to the level of the pre-trauma state with laser irradiation, in direct proportion to the time spent for treatment. These results suggest that low-power infrared laser irradiation can relieve the mechanical damage of sciatic nerves and stimulate the regeneration of peripheral nerves.

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