



## Low Level Laser Therapy & wound healing testimonials followed by clinical research

### Wound Healing

#### *K.L. South Dakota*

My son had a bicycle accident which smashed his front teeth and lip. His teeth and bone were pushed back ½ inch and required surgical repositioning and 6 stitches in his lip. The first two days he took pain pills; however, as a backup I used the Resonator laser daily. After the second day, we stopped the pain pills and he had NO PAIN! The laser seemed to control the pain and speed the healing. After just four days, here is no pain, no swelling, no black and blue marks, the scab has already come off, and new tissue is appearing!



#### *Eugene Lachocki, Edgewater, FL*

Some time ago I fell down and broke my nose hurt my chest, neck, and hip. I was practically disabled, and could only walk very slowly with the aid of my cane. After the accident, I had constant headaches. I received three acupuncture sessions with no help. Later I went in for spinal decompression treatment ... again with no help or success. Finally, I bought a Q1000 and started doing my own treatments on my hip, spine and neck. After two weeks, I could walk without my cane and my headache was gone. Now I occasionally use my Q1000 to improve conditions and I feel great.

#### *Sue Hoadley, Dearborn, MI*

My 83-year old mother-in-law had what the doctor described as an “*explosive wound*” on the back of her left calf. The doctor stitched the wound up and told us to expect this to take a LONG time (believe it or not, as long as a full year!) to heal on a patient this age. He was also very concerned about the possibilities - even likelihood - of infection, and also cautioned my mother-in-law to expect a “divot” in her calf after the wound had healed. We lasered the wound with our Q1000 on a daily basis and the results have been nothing less than tremendous!

*Deborah Friend (Distributor)*



Here is a new case study. This is a 50ish year old woman who hit her head on the countertop...granite...when her new shoes slipped out from under her. We used the Q1000 for 5 minutes

once a day for three days. On day three the doctors removed all her stitches and could not believe how it had healed. She went on vacation on the 2nd, 3rd, 4th and 5th and returned on Tuesday the 6th...our last picture

## ***Laboratory Methods for Evaluating the Effect of Low Level Laser Therapy (LLLT) In Wound Healing***

***1HAWKINS, D. AND 1ABRAHAMSE, H.***

*1Faculty of Health, University of Johannesburg, P.O. Box 17011, Doornfontein, Johannesburg, South Africa, 2028. Received: December, 2004 Accepted: January, 2005* **Abstract** *The basic tenet of laser therapy is that laser radiation has a wavelength dependent capability to alter cellular behaviour in the absence of significant heating. Low intensity radiation can inhibit as well as stimulate cellular activity. Laser therapy typically involves the delivery of 1-4J/cm<sup>2</sup> to treatments sites with lasers having output powers between 10mW and 90mW. There are two major areas of laser therapy research: the laboratory and the clinic. The laboratory presents the least ambiguous results. Here, although unsupported results do appear, the vast majority of published work finds clear evidence that laser irradiation alters cellular processes in a nonthermal, wavelength-dependent manner. Low energy laser irradiation alters the cellular function by effecting protein synthesis, cell growth and differentiation, cell motility, membrane potential and binding affinities, neurotransmitter release, ATP synthesis and prostaglandin synthesis. Laboratory findings provide*

*scientific rationale of laser therapy and the effect of laser therapy on cellular processes. This review outlines some of the current methods employed in the laboratory to measure the effect of low level laser therapy (LLLT) on cellular and molecular processes in the cell. This review briefly explains the different structural, cellular and molecular parameters and highlights some of the basic principles and protocols including specialized equipment requirements.*

## **Low-level laser therapy (LLLT) efficacy in post-operative wounds. Herescu N, Velciu B, Calin M, Savastru D, Talianu C.**

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Magurele-Bucharest, Romania. [herescu@inoe.inoe.ro](mailto:herescu@inoe.inoe.ro) OBJECTIVE: The aim of this paper was to investigate the efficacy of low-level laser radiation (LLLR) with wavelength of 904 nm on the stimulation of the healing process of postoperative aseptic wounds (early scar).

BACKGROUND DATA: Low-level laser therapy (LLLT) has been increasingly used to treat many disorders, including wounds. However, despite such increased clinical usage, there is still controversy regarding the efficacy of this wound treatment in current clinical practice.

METHODS: LLLT has been used to treat cutting plague in the right instep and on the left foot. Both resulted from sutured wounds. The clinical evaluation by semiquantitative methods is presented. RESULTS: Clinical evaluation showed that the healing process of these postoperatively treated wounds has occurred and that the functional recovery of the patients (i.e., return to their ordinary life) was faster than without treatment.

CONCLUSION: LLLR with wavelength of 904 nm to stimulate postoperative aseptic wounds (early scar) is efficient in both cases of cutting plague. J Clin Laser Med Surg. 2004 Feb;22(1):19-25.

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