

5TH INTERNATIONAL LOW INTENSITY LASER THERAPY CONFERENCE

June 5-7, 2008 Sheraton Centre Hotel | Toronto, Canada

Suggested poster abstract topics include but are not limited to:

- Musculoskeletal conditions
- Wound healing
- Trauma
- Degenerative pathologies
- Neurological conditions
- Sports injuries

Dear Clinician and Colleague,

Meditech is pleased to invite all participants to submit abstracts for a poster session to be held at our 5th International Low Intensity Laser Therapy Conference from June 5th to the 7th, 2008 at the Sheraton Centre Hotel in Toronto.

All clinics are encouraged to submit up to two abstracts for poster presentations. The abstracts should be under 500 words and include a brief summary of the condition being treated, the treatment protocols used and all outcome measures/results. Posters will be selected based on the quality of content, treatment parameters, outcome measures and relevance to the content of the conference. Awards will be presented for the best posters.

Sample Poster

Low Intensity Laser Therapy Application in Wound Healing

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1.0 BACKGROUND: The management of wounds continues to challenge all medical disciplines involved in the process. Typical etiological factors causing ulceration include: atherosclerosis, systemic diseases such as diabetes mellitus, pressure ulcers, thrombophlebitis, incompetent valves, traumatic injuries, burns and infections. The progression of wound healing occurs in 3 phases: inflammatory, which lasts for 2-5 days; proliferative, which includes epithelialization and lasts for 2 days to 2 weeks and a remodeling phase, which can last up to 2 years.

2.0 OBJECTIVE: To determine the outcomes of the LLT Wound Healing Program, for patients presenting with pain, compromised neurological and physiological function and tissue damage associated with vascular/diabetic ulcerations.

3.0 MATERIALS & METHODS: A retrospective case review of clinical features including pain, measured by visual analogue scale (VAS)¹, motor function measured by range of motion (ROM) and visual outcome, utilizing a photo digital planimetric software program² to measure wound area for six patients (n=6; 5 males, 1 female; age = 67). Over the past 2 years, Meditech International Inc. has developed the following program based on clinical and scientific expertise:

1) Utilizing the LLT system³, treat localized ulcer sites and over the spinal nerve roots of the dermatome, enervating the ulcer area peripherally. Irradiation of the autonomic nervous system along with the terminal spinal cord produces a sympathetomy-type effect, which significantly dilates the small arterial channels. Note: Obtain as much therapeutic value out of each protocol setting as possible; increase stages gradually, based on clinical response.

LLT Device Specifications

FUNCTION	SPECIFICATION	WAVELENGTH	POWER	DOSE	WOUND HEALING	ROM	VAS	PAIN	ROM	VAS	PAIN
Wavelength	690nm	690nm	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW
Power	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW
Dose	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW
Pain	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW
ROM	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW
VAS	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW	100mW

4.0 RESULTS & CONCLUSIONS: All six patients in the study had chronic ulcers of the lower extremities, persisting in excess of 3 months prior to being subjected to the LLT Wound Healing Program (See Table 3 & Appendix). Significant improvements in motor function (7.4 ROM +45%), progressive epithelialization (7 wound closure rate = 4.26%/week) and 100% complete wound closure was achieved. No recurrences of pathology at least one month post cessation of therapy were evident (7.5% reduction in wound area = 100%). The rate of infarction LLT has on each of the variables (VAS, ROM and wound closure) was different periods of the therapy (See Table 3). Within the first month, LLT has a greater positive influence on the variables. Then subsequently, results also show that the benefits of LLT continue, even post cessation of therapy, although the impact is less significant than during the course of LLT treatments.

In Fig. 14, the equilibrium represents the minimum amount of time necessary for a given number of LLT treatments to have a level of benefit that satisfies the severity of the variables. VAS in Fig. 1, ROM in Fig. 2 and the area of the wound in Fig. 3. In all relationships, the more treatments taken within a shorter length of time, the more rapidly the variables will be positively influenced by LLT.

Table 2 shows the significant difference in costs between the LLT Wound Healing Program and the conventional approaches to wound management. On average, the patients in this study spent from ~\$1,100 - \$3,300 to heal their wounds using the LLT Wound Healing Program. According to statistics, it would have cost a maximum of ~\$24,000 - \$27,000 per wound for 3 months of therapy utilizing the conventional approach.

Comparing the outcomes of two patients diagnosed with the same pathology (peripheral arterial occlusive disease), Fig. 4 shows patient #4772's and Fig. 5 depicts patient #4485's frequency of and time lapse between treatments. Increasing the frequency of large time lapses between treatments, tends to increase the number of treatments it takes to reach the endpoint in LLT therapy. Increasing the length of time between treatments however, did not correspond to a decrease in the rate of improvement for any of the variables.

The LLT Wound Healing Program achieves consistent, effective and clear endpoints. The program is cost effective, creates no adverse effects and invariably leads to the salvage of extremities.

There will be a 10% discount on conference registration for all accepted poster presenters.

We will notify you by February 15, 2008 if your abstract has been accepted. Those whose abstracts are accepted for poster presentation at the conference will then need to submit the following information by April 15, 2008.

1. A biography for the conference program
2. The final complete abstract to be demonstrated

Please send submissions to:

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For more information about poster submissions or to inquire about the 5th International Low Intensity Laser Therapy Conference, please call Meditech at (416) 251-1055, toll-free (888) 557-4004 or visit our website at www.bioflexlaser.com or e-mail conference@bioflexlaser.com