

## STRONG ANTI-INFLAMMATORY EFFECT

### BIOFLEX RAPIDLY RESOLVES CHRONIC SOFT TISSUE INJURIES



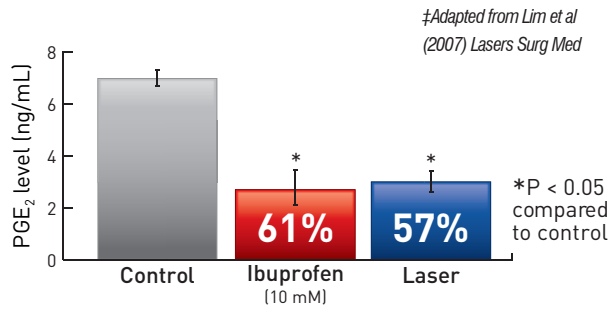
BEFORE



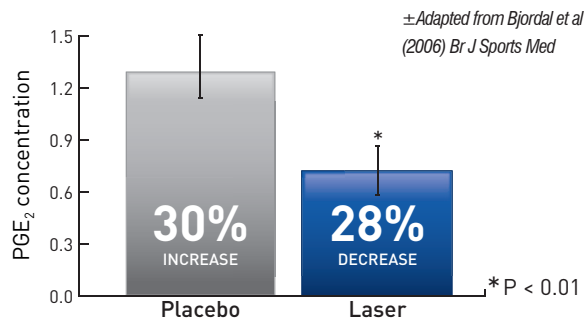
AFTER 6 TREATMENTS

†Patient from Meditech Laser Rehabilitation Clinic

### IN VITRO STUDIES SHOWED LASER COMPARABLE TO NSAID'S (PGE2)



### CLINICAL STUDIES IN TENDONITIS SHOWED REDUCTIONS IN PGE2



† Patient: Male, 51 yrs old; Diagnosis: Chronic Infrapatellar tendinosis.

‡ Data from primary cell cultures of human gingival fibroblasts (hGF). Cell cultures received 10 mM Ibuprofen or one active laser treatment. ± Data from randomized, placebo-controlled trial. Patients received active laser on one Achilles tendon and sham laser on the other tendon with prostaglandin E2 concentrations measured in 15 min intervals up to 165 mins after treatment.

## CLINICAL BENEFITS OF LASER THERAPY

MOLECULE	BIOLOGICAL EFFECTS	CLINICAL BENEFITS
<b>Growth Factors</b> BDNF, GDNF, bFGF, IGF-1, KGF, PDGF, TGF-β, VEGF	<ul style="list-style-type: none"> <li>• Proliferation</li> <li>• Differentiation</li> </ul>	<ul style="list-style-type: none"> <li>• Normal tissue regeneration</li> <li>• Reduces scarring</li> <li>• Rapid recovery</li> </ul>
<b>Interleukins</b> IL-1α, IL-6, IL-8, IL-2, IL-4	<ul style="list-style-type: none"> <li>• Migration</li> <li>• Immunological activation</li> </ul>	<ul style="list-style-type: none"> <li>• Resolves difficult infections</li> <li>• Improves inflammatory response</li> </ul>
<b>Inflammatory Cytokines</b> PGE2, COX-2, IL-1β, TNF-α	<ul style="list-style-type: none"> <li>• Inhibition of inflammation</li> </ul>	<ul style="list-style-type: none"> <li>• Reduces pain and swelling</li> <li>• Improves range of motion</li> <li>• Functional recovery</li> </ul>
<b>Small Molecules</b> ATP, cGMP, ROS, Ca <sup>2+</sup> , NO	<ul style="list-style-type: none"> <li>• Angiogenesis</li> <li>• Cell signalling</li> </ul>	<ul style="list-style-type: none"> <li>• Restores normal vasculature</li> <li>• Resolves chronic ulcers</li> </ul>

†Adapted from Xuejuan et al (2009) J of Biomed Sci

"Laser Therapy (LLLT) reduces pain immediately after treatment in acute neck pain and up to 22 weeks after completion of treatment in patients with chronic neck pain." Chow et al Dec 2009 LANCET

"A randomized, placebo-controlled, double-blind study of carpal tunnel syndrome carried out at General Motors found that patients had better functional recovery and "return to work was 72% for the active laser group versus 41% for the placebo laser (p < 0.05)." Anderson et al 1995 Lasermedics

"Our findings leave no doubt whatsoever that phototherapy promotes tissue repair in general." Fulop et al Sept 2009 Photomedicine & Laser

## RAPID PAIN RELIEF

### BIOFLEX EFFECTIVELY TREATS PAINFUL HEMATOMAS



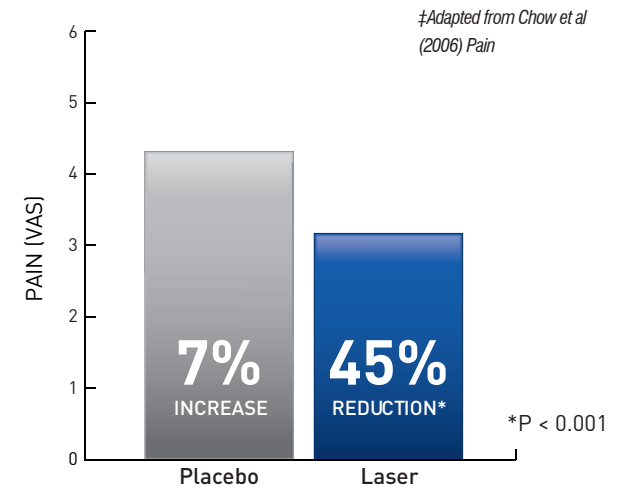
BEFORE



AFTER 4 TREATMENTS IN 7 DAYS

†Patient from Meditech Laser Rehabilitation Clinic

### LASER SIGNIFICANTLY REDUCES PAIN(PGE2)



† Patient: Male, 52 yrs old; Diagnosis: Torn hamstring in right leg & large hematoma

‡ Data from randomized, 7-week, double-blind, placebo-controlled trial. Patients received either 14 active laser or 14 placebo laser treatments over 7 weeks and follow-up measured were evaluated up to 12 weeks from baseline. Pain intensity measured on a 10 point Visual Analogue Scale (VAS).



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## THE TECHNOLOGY

The technology utilizes superluminous and laser diodes to irradiate diseased or traumatized tissue with photons. These particles of energy are selectively absorbed by the cell membrane and intracellular molecules, resulting in the initiation of a cascade of complex physiological reactions, leading to the restoration of normal cell structure and function.

The process is curative and therefore results in the elimination of symptoms including pain. In addition, it enhances the body's immune system response and facilitates natural healing. The therapy is completely safe and has no adverse side effects.

The technology is highly effective in the treatment of musculoskeletal conditions, arthritis and sports injuries.

### Soft Tissue & Sports Injuries

- Ligament/tendon/muscle tears
- Knee dysfunction (Meniscal/ligamentous tears)
- Fractures

### Repetitive Stress Injuries

- Carpal Tunnel Syndrome
- Rotator Cuff Injuries
- Epicondylitis

### Inflammatory Conditions

- Tendonitis (supraspinatus/achilles etc.)
- Plantar Fasciitis
- Rheumatoid Arthritis

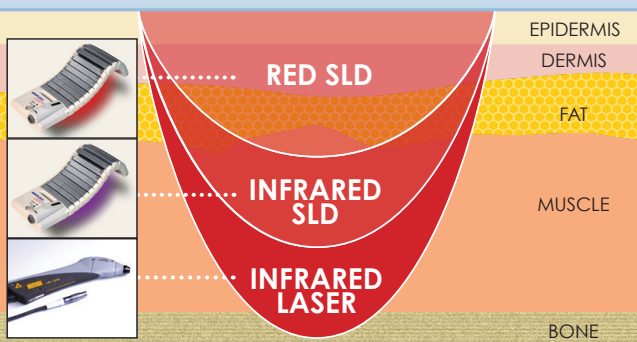
### Back Problems

- Degenerative Osteoarthritis
- Spinal Stenosis/Sciatica
- Disc Herniation
- Myofascitis

### Others

- Temporo-mandibular Joint Dysfunction
- Lymphedema
- Gout
- Fibromyalgia

### 3 STAGE APPROACH



## LIVE WITHOUT PAIN



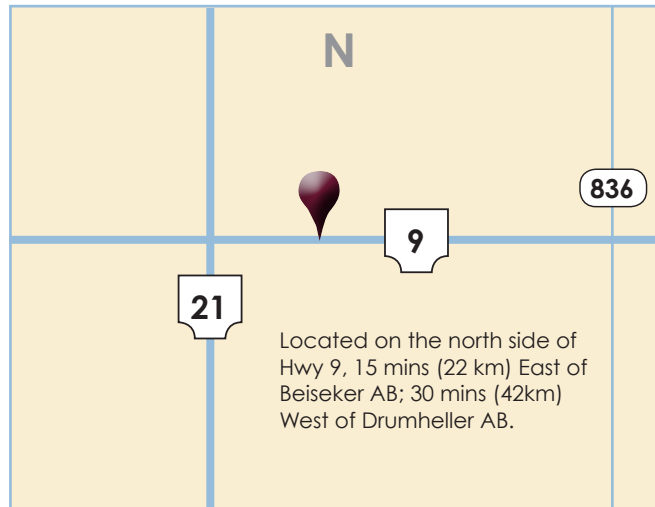
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## COLD LASER CERTIFIED TECHNICIANS



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