

# 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.



## LOW INTENSITY LASER THERAPY

*A safe and effective way to eliminate pain*

“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*



### LILT CAN BE USED TO TREAT THE FOLLOWING CONDITIONS:

#### (I) Soft Tissue & Sports Injuries

- Ligament and tendon tears
- Muscle Sprains
- Tendonitis
- Contusions

#### (II) Repetitive Stress Injuries

- Carpal Tunnel Syndrome
- Rotator Cuff Injury
- Tennis Elbow

#### (III) Arthritic Conditions

- Degenerative Osteoarthritis
- Rheumatoid Arthritis
- Vertebral Radiculopathy
- Spinal Problems

#### (IV) General Health Problems

- Headaches and Migraines
- Herniated Discs
- Fibromyalgia
- TMJ Temporo-Mandibular Joint Syndrome
- Reflex Sympathetic Dystrophy
- Post Herpetic Neuralgia

#### (V) Tissue Repair & Wound Healing

- Soft Tissue Lesions (Trauma)
- Dermal Ulcers
- Venous Stasis
- Compression

### CONTACT INFORMATION

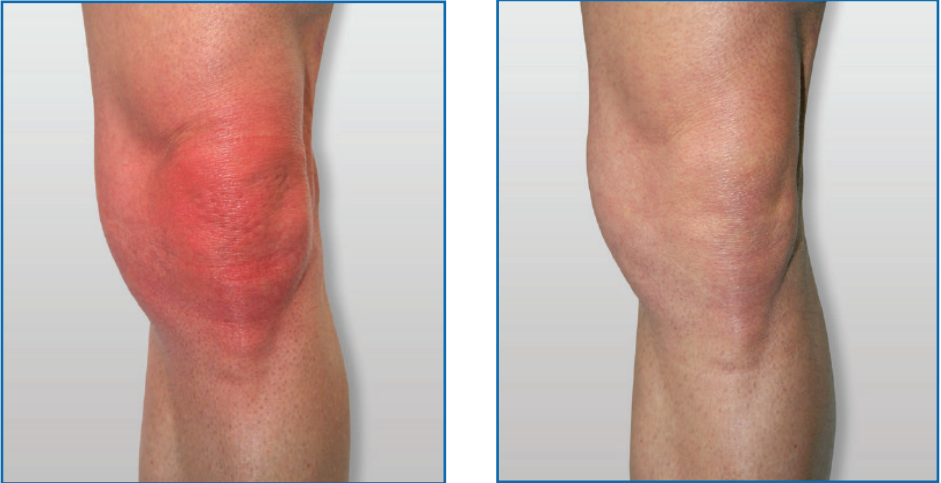




RESULTS

STRONG ANTI-INFLAMMATORY EFFECT

Bioflex Rapidly Resolves Chronic Soft Tissue Injuries



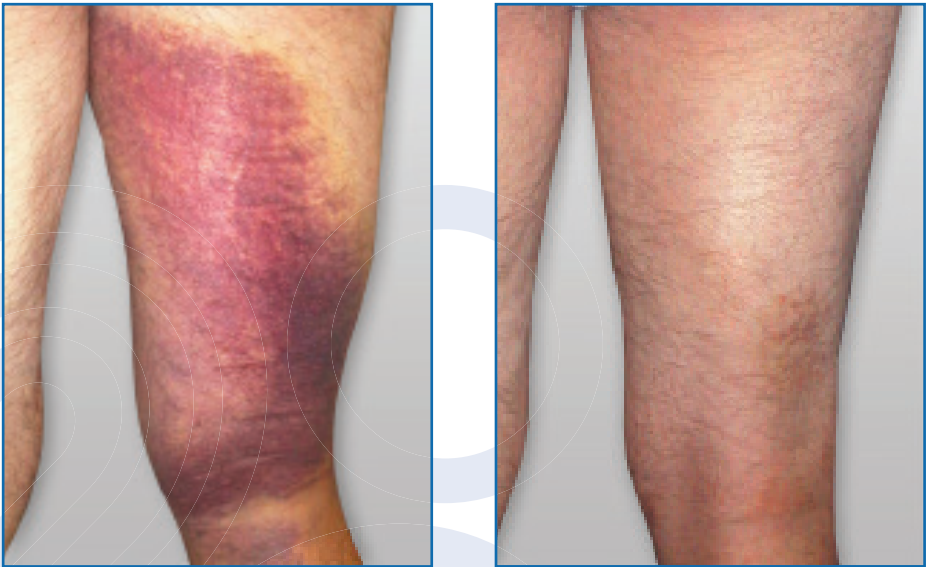
Initial

After 4 Treatments Over 7 Days

†Patient from Meditech Laser Rehabilitation Clinic

RAPID PAIN RELIEF

Bioflex Effectively Treats Painful Hematomas



Initial

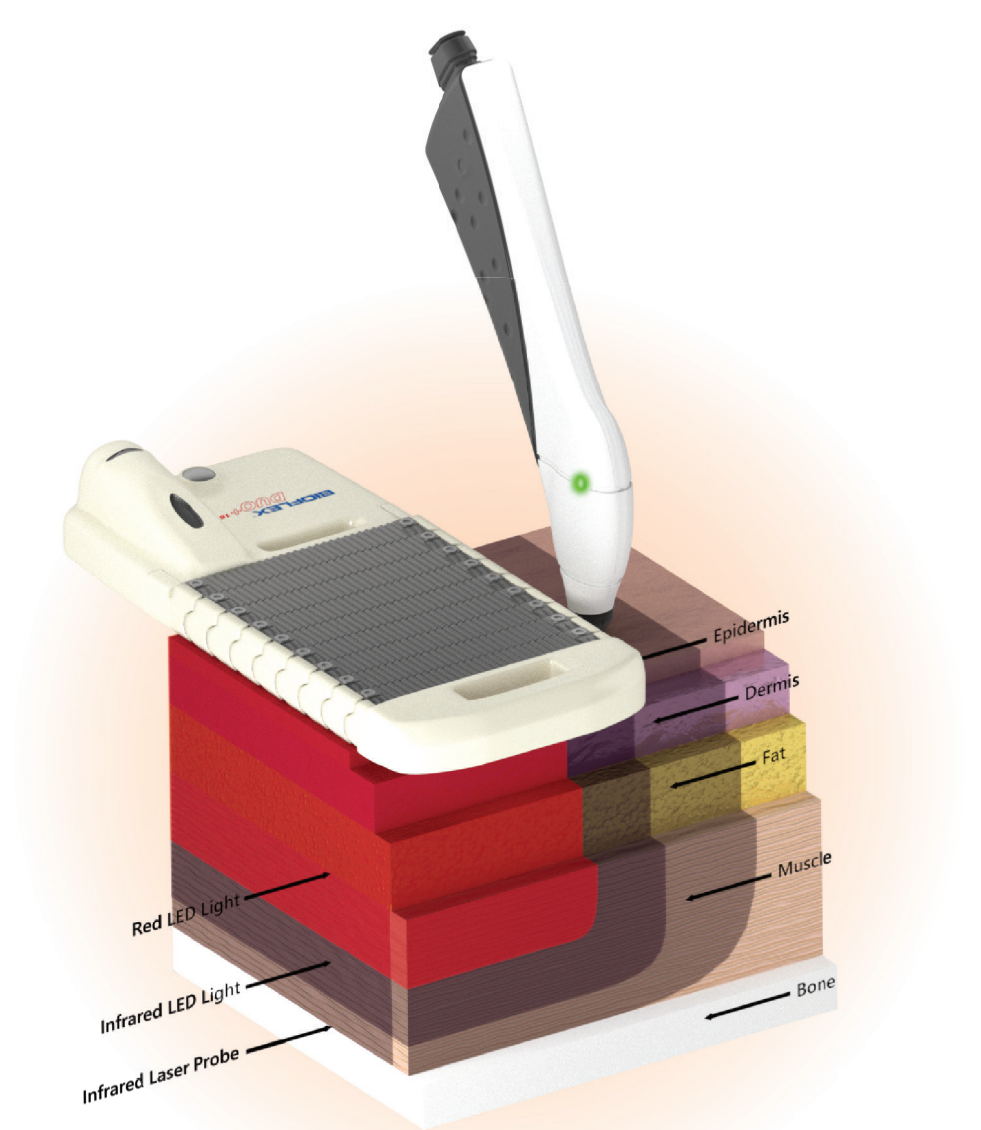
After 4 Treatments Over 7 Days

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CLINICAL BENEFITS OF LASER THERAPY

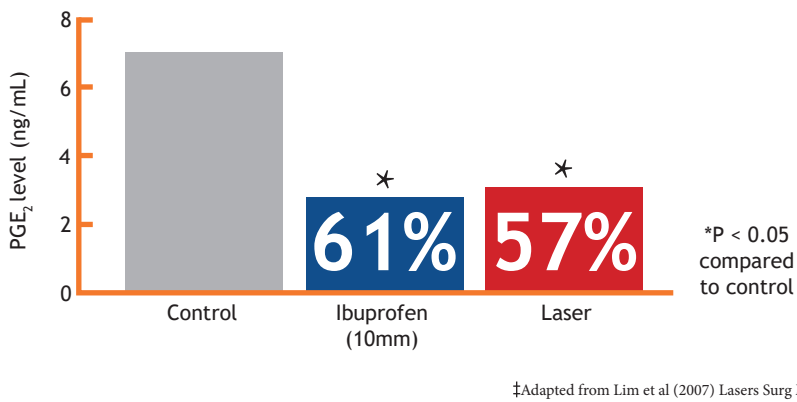
MOLECULE	BIOLOGICAL EFFECTS	CLINICAL BENEFITS
<b>Growth Factors</b> BDNF, GDNF, bFGF, IGF-I, KGF, PDGF, TGF- $\beta$ , VEGF	Proliferation Differentiation	Normal tissue regeneration Reduces scarring Rapid recovery
<b>Interleukins</b> IL-1 $\alpha$ , 1L-6, IL-8, IL-2, 1L-4	Migration Immunological activation	Resolves difficult infections Improves inflammatory response
<b>Inflammatory Cytokines</b> PGE2, COX-2, 1L-1 $\beta$ , TNF- $\alpha$	Inhibition of inflammation	Reduces pain and swelling Improves range of motion • Functional recovery
<b>Small Molecules</b> ATP, cGMP, ROS, Calf, NO	Angiogenesis Cell signalling	Restores normal vasculature Resolves chronic ulcers

BIOFLEX LASER THERAPY 3 STAGE APPROACH

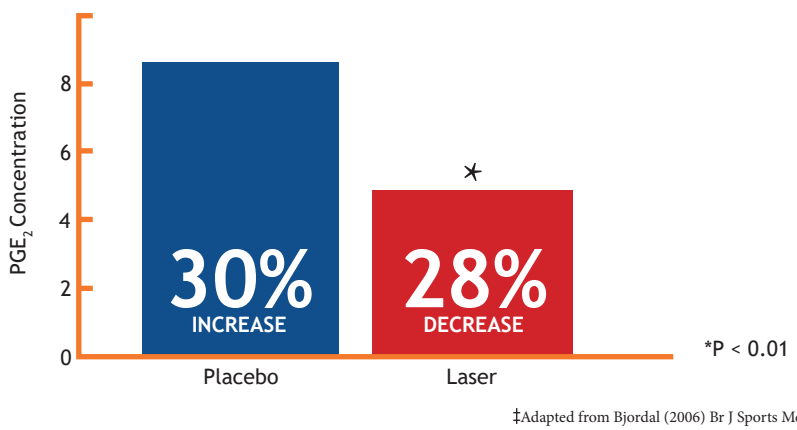


RESEARCH

IN VITRO STUDIES SHOWED LASER COMPARABLE TO NSAID’S(PGE<sub>2</sub>)



CLINICAL STUDIES IN TENDONITIS SHOWED REDUCTIONS IN (PGE<sub>2</sub>)



LASER SIGNIFICANTLY REDUCES PAIN

