

TerraQuant Laser Therapy

We offer our patients the cutting-edge TerraQuant Multi-Radiance Therapy Laser for fast pain relief and accelerated healing!

Multi-Radiance Therapy provides a unique combination of super-pulsed laser, infrared, visible red light and magnetic field therapies based on Quantum Laser Therapy. This non-invasive therapy is utilized to treat chronic and acute pain.

Used for persons suffering from:

- back and neck pain
- musculoskeletal pain
- joint pain associated with arthritis
- fibromyalgia
- tendonitis
- bursitis
- neuropathy
- Achilles tendon pain
- migraine headaches
- sprains and strains
- carpal tunnel
- other associated pains

Biological effects:

- faster healing of injuries
- anti-inflammatory
- improved nerve function
- accelerated tissue repair
- improved vascular activity
- pain relief via release of endorphines

Treats conditions such as:

- TMJ
- reflex sympathetic dystrophy (RSD)
- other inflammatory and scarring conditions
- athletic injuries
- lower back pain
- knee and foot pain
- shoulder injury
- carpal tunnel syndrome
- arthritis
- muscle spasms
- relief of muscle and joint pain
- relief of stiffness
- promotion of muscle relaxation
- cell restoration
- soft tissue injuries (sprains and strains, tendonitis, and haematomas)
- joint disorders and conditions (arthritis and tenosynovitis)
- chronic pain (trigeminal neuralgia and chronic neck and back pain)

The TerraQuant Multi-Radiance Therapy Laser does not require the use of drugs or surgery, and there are no known side-effects or risks that may occur with other forms of treatment. In addition, it *can often achieve results faster than other treatment modalities.* There is little or no sensation during treatment (occasionally, one feels a mild, soothing warmth, or tingling).

How does low-level laser therapy work?

The effects of low-level laser therapy are cold, not thermal; thus photochemical processes are affected. Cold lasers are used for healing precision (as opposed to hot lasers used for surgical precision). During tissue treatment, an interaction between cells and photons takes place. Photons from the laser affect the tissue at the cellular level. The cold laser enters the tissue, alters cell membrane permeability, and at the cellular level is absorbed in the mitochondria of the cell creating physiological changes such as:

- rapid cell growth (accelerates cellular growth and reproduction)
- faster wound healing (stimulates fibroblast development in damaged tissue; reduction in recovery time)
- increased metabolic activity (helps the body increase output of specific enzymes, greater oxygen to blood cells, and more effective immune response)
- reduced fibrous tissue formation (scar tissue from cuts, scratches, burns, or surgery)
- anti-inflammatory action (reduces swelling caused by bruising or inflammation of joints to give improved joint mobility)
- increased vascular activity (stimulates lymph and blood circulation)
- stimulated nerve function (speed the process of nerve cell reconnection to bring numb areas back to life; optimizes muscle action)

These physiological changes affect macrophages, fibroblasts, endothelial cells, mast cells, bradykinin, nerve conduction rates, and the energy communication pathways throughout the fascial network (liquid crystalline living matrix). The energy transferred to the cell can increase kinetic energy, and activate or deactivate enzymes or alter physical or chemical properties of main macromolecules. The mitochondria are the "Powerhouse" of the cells and make Adenosine triphosphate (ATP) which is needed for the life enhancement process of every cell.

Cells of your body communicate with each other through coherent light. There are specific pulsations, known as hertz, than can be programmed with the laser frequency allowing the practitioner to talk "cell talk" with the body. Specific pulsations have been shown to create different physiological responses of the cell. This is extremely important when working with a variety of injury and disease conditions to promote healing. When a tissue becomes diseased or injured, the metabolism of the cell is decreased. This low-level laser creates an increase in metabolism and cell communication immediately.