



# MULTI RADIANCE MEDICAL LASER THERAPY

## How does it work?

Multi Radiance Medical laser therapy devices provide deep tissue penetration with maximum photonic density. Non-invasive stimulation is delivered through stainless steel electrodes that are located on a surface of an emitter. MRM super pulsed lasers deliver higher peak power while maintaining the highest degree of safety of any therapeutic laser.

Additionally, Multi Radiance uses "sweep" laser programs with variable frequencies; this avoids possible diminished therapeutic effect due to tissue adaptation. Along with MRM technology, the LaserStim provides feedback on changes in the physiology of the tissue, allowing us to provide highly targeted treatments.

## A little more science ...

The laser light, which is photon energy, is being diffused, and the scattering laser light penetrates into the tissue. This light primary mechanism absorbs the polarized light in the cytochrome molecules to stimulate the creation of singlet oxygen. The electrical field across the cell membrane then creates a dipole moment on bar shaped lipids, creating temperature and pressure gradients across the membrane.

All of this increases the ATP-ase and activates the cAMP which triggers immunological chain reactions and increases pro-collagen synthesis in fibroblasts. This increases endothelial cells and keratinocytes and eventually produces wound healing. At the same time, the electrical field influences the permeability of cell membranes, which increases serotonin levels, enhances endorphins and decreases bradykinine, causing an increase in the nerve cell action potential.

## What does all this mean?

This helps inhibit the pain and inflammatory process, and helps heal the tissue!

Multi Radiance Medical technology was FDA approved in 2002. Even though as yet it is not covered by most insurances, patients and athletes want this procedure! The MRM Technology excels where most laser devices fall short.

88% positive results were seen in randomized studies.

MRM Super Pulse Laser delivers higher peak power while maintaining the highest degree of safety of any therapeutic laser.

Multi Radiance Medical devices are more effective in delivering photons to deep tissues, compared to Class 1-3 continuous and modulated lasers. Unlike Class 4 continuous lasers, Multi Radiance devices eliminate the risk of thermal damage to a tissue. Hence, one is not able to be burned with this Multi Radiance Technology. One feels no pain with treatments!

## Who is using this technology?

MRM technology is widely used by both professional and amateur athletes, including Olympic athletes, US major league soccer players and the National soccer team. It is used by the military special forces of seven countries.

This technology is also used by chronic pain sufferers, including patients at Woodbury Foot Care Centre and Woodbury Family Chiropractic!

Dr. Herskowitz and associates are all trained to use the laser on the foot, ankle and toenails.

Dr. Liberman uses the cold laser for the treatment of carpal tunnel, sports injuries as well as on the neck and lower back regions.

**Woodbury Foot Care Centre and Woodbury Family Chiropractic are treating patients from "Head to Toe!" Call today for your appointment!**



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