



EXPLANATION OF COLD LASER

1. What does LASER stand for?

LASER stands for Light Amplification by Stimulated Emission by Radiation.

2. How does laser light differ from "normal" light?

Light emitted from a laser diode is monochromatic (having only one wavelength), parallel and coherent (having waves with similar direction, amplitude, and phase). These qualities make laser light much more valuable for therapeutic benefits.

3. Are low level lasers SAFE?

Industry has been using laser diodes for years in such applications as bar code check outs, CD players, laser printers and pointers. The FDA has listed bio-stimulation lasers as non-significant risk (NSR) devices. The low level lasers shown on this website have received UL approval for safety.

4. How do low level lasers or soft tissue lasers work?

Pain results from trauma, inflammation and/or cellular disruption, malfunction, or less than optimal cellular function. Healing and pain relief come with cellular normalization. Photons enable cells to perform optimally by stimulating them to initiate bio-chemical reactions, which produce enzymes and ATP (usable energy).

Use of low level lasers (cold lasers or soft tissue lasers) enhances cellular function and it can also encourage the formation of collagen and cartilage in damaged joints and the repair of tendons and ligaments. Cold lasers and soft tissue lasers are gentle and non-heating to the tissues. They are configured with frequencies and power densities that are favourable to the cells and tissues of the body.

5. Where can low level laser therapy be used?

Low level laser therapy may be used any place there is acute or chronic pain or inflammation, and, low level laser therapy may be effective on any disease or disorder. Users have reported successes when using low level laser therapy on: Arthritis, Carpal Tunnel Syndrome, Tennis Elbow, Whiplash, Headaches, Back and Shoulder Pain, TMD/TMJ, Burns, Cuts, Sprains, Colds and Cold Sores, Sinusitis, and even Age Spots and wrinkles!

6. Have low level lasers been scientifically studied and proven?

Low level lasers have been used world-wide for over 30 years. Over 3500 studies have shown that low level lasers:

- (1) REDUCE PAIN by stimulating cells to produce their own endorphins, natural pain killers,
- (2) PROMOTE FASTER HEALING by stimulating cells to increase the production of two major healing enzymes by as much as 75%,
- (3) REDUCE INFLAMMATION by as much as 75%, and DECREASE SWELLING by stimulating lymphatic drainage,
- (4) INCREASE BONE REPAIR SPEED by stimulating fibroblastic and osteoplastic proliferation,
- (5) RELAX MUSCLES and muscle spasms,
- (6) ENHANCE THE IMMUNE SYSTEM by increasing the number of "killer" cells by 400-900%, and most importantly,
- (7) RE-ENERGIZE CELL MEMBRANES to allow transport of essential nutrients across cell walls (nutrients will not cross an injured or sick cell wall, thus slowing healing) allowing a healthy new cell to grow.