COLD LASER



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Cold Laser Therapy Treatments (Continued)

Nerve Function and Repair

Nerves heal very slowly. Lasers speed up this process. Damage to nerves causes numbness, pain, muscle weakness, and altered sensations. Laser therapy treatments enhance nerve function, healing and reduce pain.

Increased Energy Production - ATP

ATP is like gasoline for cells, which is the energy source that cells operate. Injured cells often have low levels of ATP, which decreases their ability to heal and repair. By increasing ATP and "gasoline storage levels", cells have more ATP for healing and repair. Increased mitochondrial production is very important with nerve pain.

Acupressure and Trigger Points

Low level laser therapy decreases trigger points and stimulates acupressure points to decrease muscle and joint pain.

> Average treatment time is 6 to 12 minutes.

Pricing from single treatment or purchase multiple treatments to save money.

Research shows it takes a series of treatments, usually 8 to 30 depending upon the severity and duration of the condition.

Cold Laser Therapy Treatments (Continued)

Pain Relief

Cold Laser therapy decreases pain by blocking pain signals to the brain. Chronic pain can be caused by overly active pain nerves. Specific wavelengths help "stop" the pain signals, thereby, eliminating your pain. Low level lasers are excellent at decreasing inflammation, which also increases pain nerve activity. Cold laser therapy also increases endorphins and enkephalins, which block pain signals and decrease pain sensation. Overall laser therapy reduces painful nerve signals and reducing your received pain.

Increased Blood Flow

Blood carries nutrients and building blocks to the tissue, and carries waste products away. Increased blood flow to tissues increases and enhances cellular healing. Cold laser therapy increases the formation of capillaries in damage tissue. Specific laser frequency also increases blood flow to the area treated, to enhance injury repair.

Increased Repair and Regeneration

Low level lasers therapy increases enzyme activity that affects *cell repair and regeneration*. The enzymes are turned on "high" to speed the healing.

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Cold Laser

Low Level Laser Therapy (LLLT) is the application of red and near infra-red light over injuries or lesions to improve wound and soft tissue healing, reduce inflammation and give relief for both acute and chronic pain.

There is substantial clinical evidence published in peer reviewed medical journals that cold Low Level Laser Therapy (LLLT) can stimulate repair of tissue, reduce inflammation and relieve pain in musculoskeletal disorders.

The three main areas with good evidence are:

Soft Tissue Injuries Joint Conditions Back and Neck Pain

Other applications such as shingles, post operative pain also respond well.



Health Problems that Benefit from Laser Treatments

Inflammatory Conditions Muscle Injury/Disorders Acute Pain Chronic Pain **Ligament Sprains Muscle Strain** Soft Tissue Injuries Tendonitis Arthritis **Tennis** Elbow **Back Pain Bursitis** Carpal Tunnel Syndrome Fibromyalgia Herniated Disc **Bulging Disc** Nerve Pain Neck Pain **Decreased Blood Flow**

Cold Laser Therapy Treatments

Accelerated Tissue Repair and Cell Growth

Photons of light lasers penetrate into tissue and accelerate cellular growth and reproduction. Laser therapy increases the energy available to the cell so it can work faster, better, and quickly get rid of waste products. When cells of tendons, ligaments, and muscles are exposed to laser light they repair and heal faster.

Faster Wound Healing

Laser light increases collagen production and promotes tissue repair and healing. Laser therapy increases fibroblast activity and therefore collagen production to speed healing.

Reduced Fibrous Tissue Formation

Low level laser therapy decreases scar tissue formation. *Scar tissue can be a source of chronic pain and poor healing*. By eliminating excessive scar tissue and encouraging proper collagen production, painful scars and chronic pain is reduced.

Anti-inflammation

Laser therapy causes vasodilation (increase size of capillaries) which increases blood flow.