





# CLASS IV LASER

## Clinical Indications

Arthritis

Bone spurs

Plantar Fasciitis

Tennis Elbow

Golfers Elbow

Rotator Cuff Strains  
and Tears

DeQuervains

Tenosynovitis

TMJ

Herniated Discs

Tendinosis & Tendinitis

Enthesopathies

Stress Fractures

Shin Splints

Runners Knee

Carpal Tunnel

Ligament Tears

Sciatica

Bunions

Hip Discomfort

Neck Ache

Back Pain

Muscle Strains

Joint Sprains

Achilles Tendinitis

Nerve Conditions

Post-Surgery Healing



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## How It Works

When your physician recommends Class IV laser therapy, your body is going to experience an **immediate sense of pain relief, accelerated healing and decrease in inflammation.**

### The Power of Class IV Laser Therapy

Class IV laser therapy utilizes an infra-red electro magnetic energy. It is extremely safe and patients often feel a mild warming sensation.

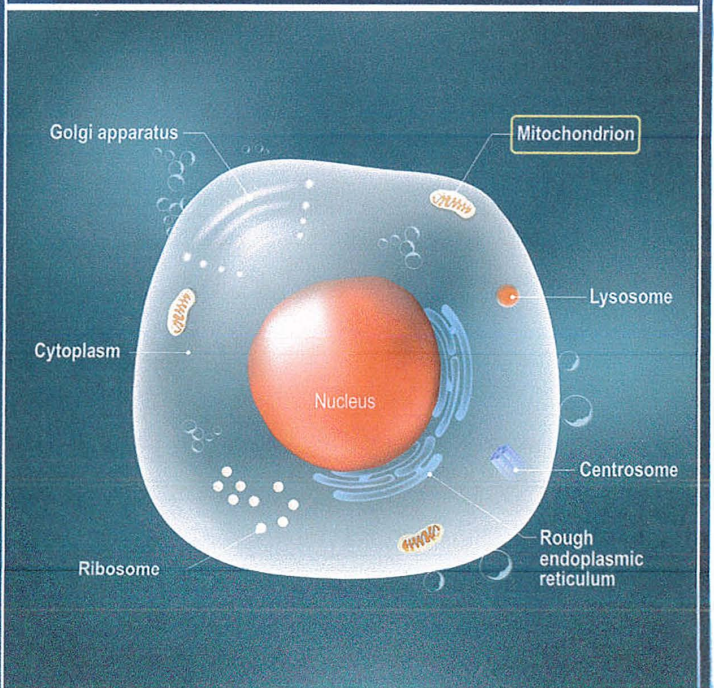
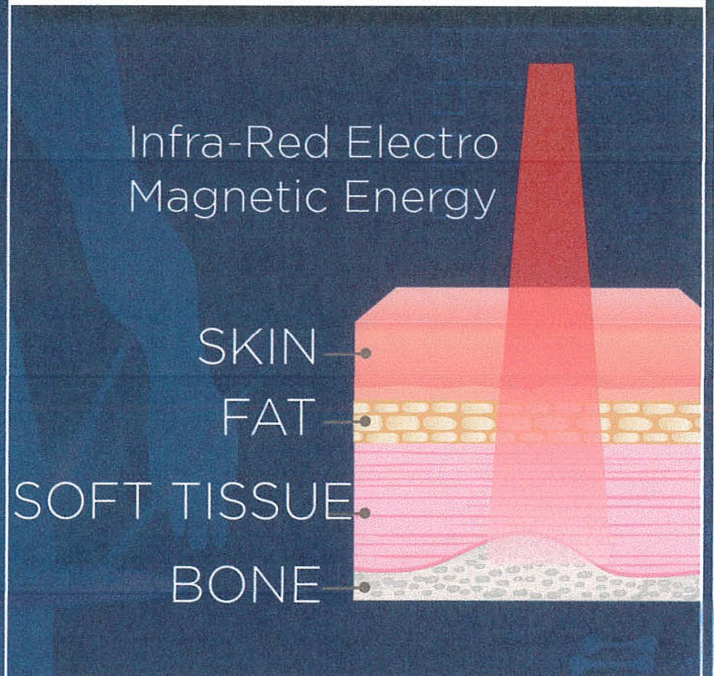
When the laser light source is placed against your skin, photons penetrate several centimeters down and are absorbed by the mitochondria (the energy producing part of a cell).

### The Importance Of Cell Regeneration

Simply put, healing is only possible with the regeneration of cellular energy.

Research shows tissues targeted by High Power Laser Therapy are stimulated to increase production of a cellular enzyme that is critical to the production of ATP (the currency of chemical energy in living cells)

This is the photo-chemical effect of High Power Laser Therapy.



Anatomy of a Cell



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## Biological Effects

### Accelerated Tissue Repair And Cell Growth

Cells of cartilage, bone, tendons, ligaments and muscles are repaired faster as a result of exposure to laser light.

### Reduced Fibrous Tissue Formation

This point is paramount because fibrous (scar) tissue is less elastic, has poorer circulation, is more pain sensitive, weaker, and much more prone to re-injury and frequent exacerbation.

### Anti-Inflammation

Laser light therapy has an anti-inflammatory effect reducing caused by biomechanical stress, trauma, overuse, or systemic conditions.

### Analgesia

Laser therapy suppresses nerve signals that transmit pain to the brain.

### Improved Vascular Activity

Laser light will significantly increase the formation of new capillaries in damaged tissue.

### Increased Metabolic Activity

Laser therapy creates higher outputs of specific enzymes.

### Improved Nerve Function

Laser therapy accelerates the process of nerve cell regeneration.

### Stimulates Trigger Points and Acupuncture Points

Laser therapy stimulates muscle trigger points, restoration of muscular tonus and balance.

