

HOW DOES LASER THERAPY WORK?

Laser Therapy is a non-invasive, pain-free, light-based therapy that uses red and infrared light to target inflamed, injured and diseased tissues. Photons of light stimulate ATP production, thereby accelerating the healing process. Patients recover from musculoskeletal and peripheral nerve injuries with less scar tissue, accelerated cell regeneration and improved function.

Inflammation & Edema

Increase in inflammatory mediators such as macrophages, neutrophils and lymphocytes accelerates and resolves the inflammatory process.

Nerve Regeneration

Proliferation of growth factors promotes neuronal sprouting and myelin formation for optimal nerve recovery.

Cartilage Production

Increase in chondrocyte and collagen production allows for improved cartilage deposition and joint function.

Bone Formation

Proliferation of osteocytes and remodeling of bone extracellular matrix results in accelerated bone repair.

Angiogenesis & Neovascularization

An increase in oxygenated blood to the injured tissue accelerates tissue healing.

Collagen Production

Proper alignment and remodeling of collagen reduces internal scar formation and enhances tissue elasticity.

Muscle Regeneration & Muscle Atrophy

Repair of damaged muscle fibers and activation of myogenic satellite cells leads to regeneration of muscle tissue.

