

How Cold Laser Works

As the light receptive chromophores in various tissues, in both cellular and sub-cellular locations, are irradiated with the laser light, they are stimulated to more active levels of function and increased interaction. Laser light penetrates much deeper than other light waveforms (1-2 inches), and therefore can increase mitochondrial ATP synthesis thus producing increased oxygenation of the cells and decreased inflammatory response. Through the action of photo bio-stimulation, oxidative metabolism is increased removing free radicals. Laser irradiation also stimulates endorphin release and increased prostaglandin synthesis causing a sense of well being and decreased inflammation. Damaged skeletal, connective and neurological tissues and structures react with enhance healing in the presence of low-level laser irradiation as collagen synthesis increases. In a nutshell, the benefits are: improved vascularity, increased lymphatic activity, decreased inflammation, increase enzymatic activity, and improved healing response.

During a laser treatment, most people don't feel any sensation. 10-20% will feel some sensation described as a tingling, energy release and/or a slight warm feeling. Following a laser treatment most people feel less pain, increased range of motion, decreased swelling and less pressure. After a laser treatment, the healing effect continues for up to one hour. Additional treatments continue the healing effect.

If you would like more information, please give me a call.