

Photonic Red Light Therapy

Photonic Red Light Therapy is a healing and health giving process that uses the application of red light onto the skin to produce physiological, mental and emotional changes in the body of people and all animals. Photonic Red Light has two distinct applications. The first being to place the red light onto the location of any pain, site of injury, wound or sore, either external or internal. Secondly, Photonic Red Light safely stimulates given patterns on the skin that have increased bio-electro-magnetic conductivity called cutaneous photoreceptors or 'acupoints'. It is a tool to stimulate all acupuncture, trigger and stress points known in other therapies.

Photonic Red Light Therapy utilizes a broad band single wavelength of **660nm red light** to provide the photons required to painlessly and safely, penetrate and stimulate tissue. Visible light is a small part of the electromagnetic spectrum and ranges between 400-700nm. Wavelengths below 400nm (ultra violet) have high energy and do not penetrate deeply into tissue but can cause damage, e.g. melanomas. Above 700nm, in the infrared range there is less energy per photon, longer stimulation times are required and there are more risks involved with over-use.

Light is the visible part of electro-magnetic radiation. Einstein named units of light energy "photons". The energy of light or photons is measured in nanometers – nm. When the red light is applied to the skin it uses the collagen and nervous system as the means to deliver instantaneous messages to the brain. The brain is then triggered and releases specific neuro-chemicals e.g. pain relieving endorphins, hormones, and anti-inflammatories, in response to the acupoints we stimulate. The energy transmitted to the brain is called Electromagnetic Radiation (EMR). EMR is the scientific description of Chi as known in Traditional Chinese Medicine. **CHI is electromagnetic energy.**

By stimulating specific combinations of acupoints (Treatment Plans) on the skin, we can induce the brain to release particular hormones and other brain chemicals to relieve pain, increase immune response, and promote healing – much like resetting our 'homeostatic health and healing clock'.

The skin is the largest organ in the body & has 3 distinct functions. It is protective, thermoregulatory & sensory. Pressure (piezo electricity resulting from pressure) & temperature pyro electricity resulting from heat) on the skin is converted by the collagen into an electrical impulse that is conveyed to the brain. Collagen is an electrical conductor, and the electrical stimulation it receives stimulates the nerves to activate the brain.

The use of **Photonic Red Light Therapy** is painless, safe and complimentary, therefore may be used in conjunction with main-stream western medicine for both humans and animals.

Photonic Red Light Therapy has been successfully used to treat painlessly thousands of clinical cases in animals and humans. There is no risk of infection and is less painful than acupuncture. It can be safely used around the eyes and directly on or over wounds.

Photonic Red Light Therapy works on animals and humans in a conscious or unconscious state.(McLaren) Therefore, it obviously does not rely on a psychosomatic, hypnotic, or placebo effect, but is a valid therapeutic modality.

Photonic Red Light Therapy is a simple, fast, self-administered, non-thermal and non-invasive healing intervention. A red light covers a greater area than an acupoint, therefore the precision necessary to insert needles is not necessary and allowing any person to achieve immediate and powerful healing results and health maintenance. Practitioners trained in Traditional Chinese Medicine who already understand the meridian system, and use acupuncture, acupressure, laser, heat, ice or moxa to stimulate acupoints will find the use of Red Light quicker than any other stimulation. Less than 60 seconds per point with no risk of infection, pain or side effects.

Photonic Red Light Therapy requires stimulation of specific skin areas in a specific treatment plan - two or three times weekly (with a minimum of 48hrs between treatments) for 2-3 weeks (6-8 treatments) to effect a healing change for most conditions. In the case of first aid, immediate application to the site of injury and stimulation of the essential points for health and well-being may induce incredible results.

More information on the science and uses of red light may be found on the following websites
<http://www.jent-equine.com.au/PHOTONICREDLIGHT/Research.aspx>
www.mclarenphotonictherapy.com.au