

KLASER[®]UK

ADVANCED MEDICAL LASERS



K-LASER THERAPY

Scientifically Proven | Non-Invasive | Versatile

**A dynamic treatment option
suitable for all patients**

- Any skin colour
- Any body size
- Any age

**Fast painless treatments
that improve your clinical results**

- Applied as a stand alone treatment
 - Combined with your therapies
 - Enhanced quality of healing

**Distinguish your clinic from
the competition and generate new profit**

- Improved patient compliance
- Expanded treatment options
- Increased referrals



BIOLOGICAL EFFECTS OF K-LASER THERAPY

Laser therapy uses selected wavelengths of light to stimulate key molecules in human tissues. Decades of medical research have identified the wavelengths, energy levels and frequencies that induce changes in cellular metabolism (Photobiostimulation), for instance melanin absorbing sunlight changes skin pigmentation. K-Laser delivers energy from superficial to deep tissues activating a cascade of photochemical reactions that promotes cell function, enabling treated tissues to accelerate the stages of the healing process and reduce pain sensation. This is a safe and non-invasive technique that uses the body's own reparative processes.

INCREASED METABOLIC ACTIVITY. By stimulating key molecules (haemoglobin, water, cytochrome c) K-Laser therapy improves tissue oxygenation, ATP synthesis and intercellular exchanges*, activating a cascade of photochemical reactions that speeds up the healing, regenerative process.

IMPROVED VASCULAR ACTIVITY. K-Laser therapy induces vasodilation in the treated area and promotes angiogenesis*, thus improving blood circulation, optimising tissue nutrition and removal of cell waste and inflammatory factors. K-Laser boosts the lymphatic drainage system as well. As a result, there is a reduction in swelling caused by bruising or local inflammation.

ANTI-INFLAMMATION. Laser therapy accelerates the termination of the inflammatory process*. Interleukin-1, a cytokine that has immune and pro-inflammatory actions, is proven to be reduced by laser treatment, and the antioxidant Super Oxide Dismutase (SOD) levels are enhanced, helping reduce damaging free-radical activity.

IMPROVED NERVE FUNCTION. Laser therapy is proven to facilitate the normalisation of nerve signal transmission in the autonomic, sensory, and motor neural pathways. Both Compound Muscle Action Potential (CMAP) and Nerve Latency values show improvement following laser treatment. It is also proven to stimulate axonal sprouting and cell regeneration in damaged nerves*.

ANALGESIC EFFECT. Pain relief is the result of nerve activity alteration, reduced localised inflammation and swelling, proven to happen following a K-Laser therapy course*.

ACCELERATED TISSUE REPAIR AND CELL GROWTH. K-Laser wavelengths, power and pulse frequencies penetrate at depth into tissues and accelerate cellular reproduction and growth by increasing their metabolism. As a result, the cells of tendons, ligaments, muscles and bones are repaired faster*.

REDUCED FIBROUS TISSUE FORMATION. Early K-Laser Therapy can prevent the accumulation of scar tissue following tears, burns or surgery. Once healed the tissues are proven to be more elastic with minimal scarring*, reducing the onset of chronic pain associated with scars.

IMMUNOREGULATION. Acceleration of Leukocytic activity and enhanced Lymphocytic response have been observed in treated tissues, enhancing the removal of nonviable tissue components and rapid repair. Wounds treated with the K-Laser are more resilient to secondary infections.

FASTER WOUND HEALING. Laser therapy optimises collagen and elastin deposition: wounds treated with the K-Laser are proven to heal faster, with increased tensile strength preventing further breakdowns*. K-Laser therapy is effective on Chronic Diabetic Ulcers* and traumatic wounds.

ACUPUNCTURE POINTS. K-Laser therapy stimulates acupuncture points allowing needleless acupuncture.

* See section 'Research' to read British and International studies.

K-LASER FEATURES

CLASS IV POWER

For delivering effective dosages at deeper tissues, and shortening treatment time.

4 WAVELENGTHS

660nm - Provides metabolic stimulation for superficial tissues, especially wounds.

800nm - Stimulates the ATP cytochrome c enzymes accelerating cell metabolism.

905nm - Alters the haemoglobin molecule releasing oxygen at cellular level.

970nm - Increases blood flow by vasodilation, opening capillary beds and improving tissue perfusion.

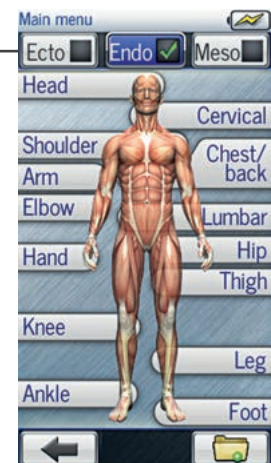


3 DELIVERY MODES:

Continuous Wave, Pulse, Intense Super Pulse.

Variable delivery modalities to suit every tissue type and target depth.

A wider range of frequencies up to 20,000 Hz for accurate treatment delivery.



DYNAMIC THERAPY

Most conditions affect more than one tissue type. K-Laser protocols are composed by various phases, each phase delivering a different combination of parameters in order to stimulate every tissue type and metabolic process affected by the condition.

Protocols are customisable on the single individual and disorder. New protocols can be added at any time - your K-Laser keeps evolving along with new scientific findings and never becomes clinically obsolete.

PORTABILITY & VERSABILITY

Weighting less than 1.6 Kg, K-Lasers are the lightest and most compact in their class. Easy portability allows for a wider range of treatment services, within your clinic or for at-home services, expanding your business opportunities.

Optional tips may be fitted onto the hand piece depending on the physician's needs, to guarantee versatility of use.



SUPPORT YOUR INVESTEMENT

TRAINING

K-Laser UK offers on-site training and on-line educational materials for your staff, along with a Treatment Atlas and an Operator's Manual.

MARKETING MATERIALS

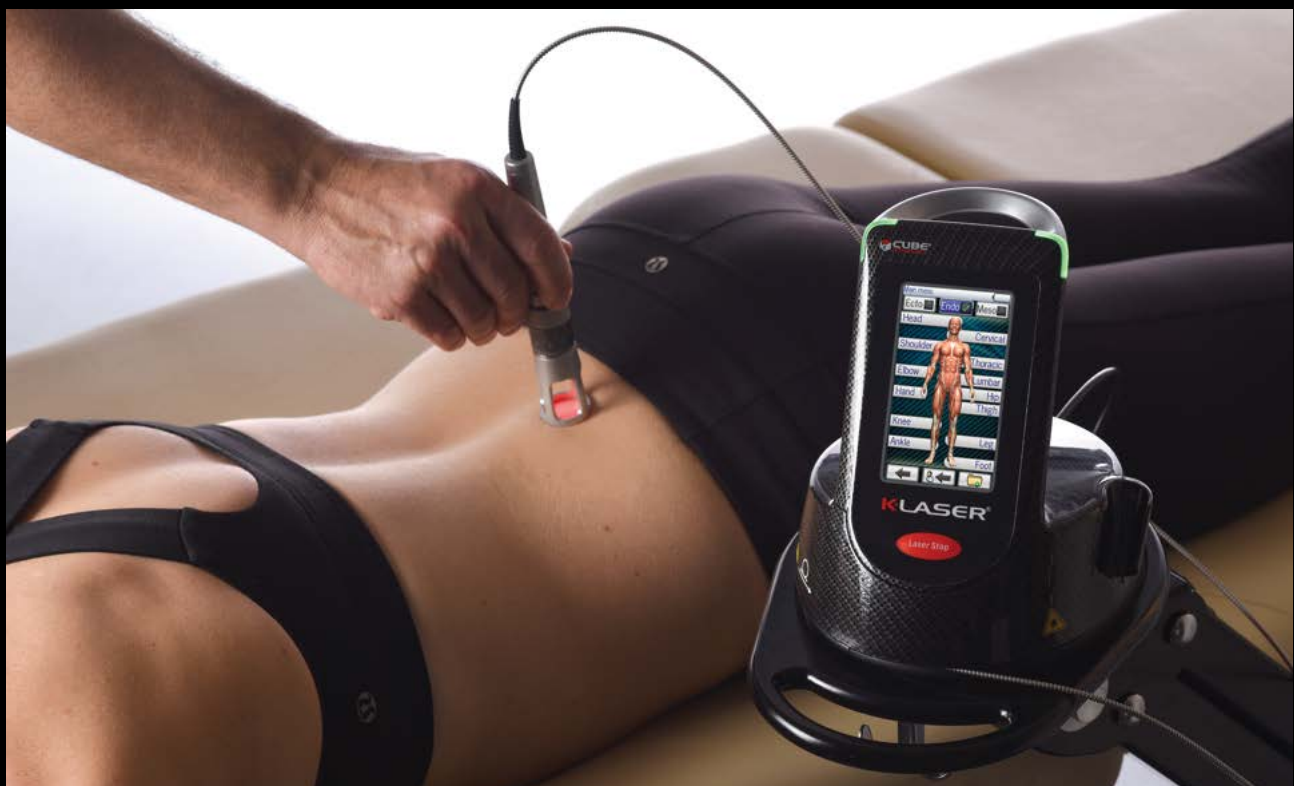
Informative leaflets for your patients, posters for your waiting area, digital materials for your website, a promotional kit for launching your new service within your community.

ASSISTANCE

Clinical and technical support continue after the implementation of the unit in your clinic.

RESEARCH

K-Laser has a continue commitment to improve Laser Therapy with clinical research in international medical institutions.



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