LASER



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What does LASER stand for?

The word LASER is an acronym for Light Amplification by Stimulation Emission of Radiation.

What is LLLT?

LLLT stands for Low Level Light Therapy.

Who can buy a LASER?

LLLT must be purchased by a licensed healthcare professional.



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How does LASER help?



Increased collagen synthesis



Stimulation of DNA and RNA synthesis



New formation of capillaries (increased Growth Factor)



Increased nociceptive thresholds



Increased endorphin and serotonin release



Blocked C-fibre depolarization (these fibres transmit pain signals to brain)



Improved local immune cell function



Inhibition of prostaglandin release

INCREASED

DECREASED

- 1 Healing
- Formation of capillaries
- Blood and lymph flow
- Tensile strength of tissues (due to collagen formation)
- Osteoblast production

- Pain
- Inflammation
- Swelling



What conditions does LASER help?

- * Acute muscular injuries
- * Acute sprains
- * Repetitive strain injuries
- Rotator cuff tears
- Carpal Tunnel Syndrome
- * Achilles Tendonitis
- * Plantar fasciitis
- **Section** Moderates Marketing
- **Rheumatoid Arhtritis**



When & Where to avoid LASER...



Skin with certain infections



Low back or abdomen during pregnancy



Regions of known or suspected malignancy



Actively bleeding tissue



Patients with untreated bleeding disorder



Areas with actively deep vein thrombosis



Eyes



Reproductive Organs



What is a joule?

A joule is a measurement used for energy. When administering LASER, we measure energy density which is joules per centimetres squared.

How many joules do you use?



Soft Tissue Healing 5 - 16

Arthritis 4 - 8

Neuropathy 10 - 12

Acute Soft Tissue Inflammation 2 - 8

Chronic Soft Tissue Inflammation 10 - 20

