



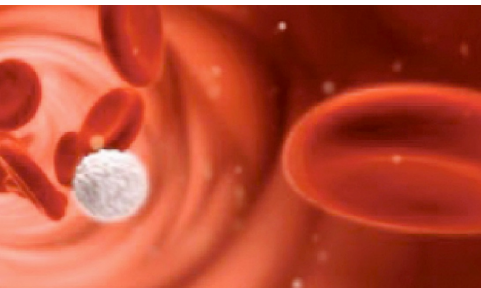
Transforming Lives Through
Laser Therapy

Immediate and lasting results

Laser therapy can reduce healing time by up to 50%

Photobiomodulation

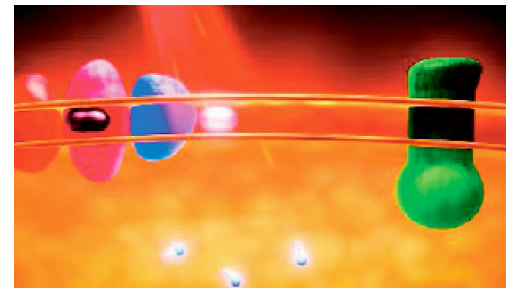
Photobiomodulation (PBM) is a form of light therapy in which red and near-infrared light to trigger photochemical reactions in the body at the molecular and cellular levels. The protocols of Summus Medical lasers modulate wavelengths, pulse rates and power to achieve unparalleled therapeutic effects, including the inhibition of inflammation, the reduction of pain, the acceleration of tissue healing and the enhancement of blood circulation.



- 1.** Light interacts with tissue at a cellular level and boosts ATP production



- 2.** Improves nutrient transport and creates an ideal healing environment



- 3.** Relieves pain, heals tissue and restores the musculoskeletal system

Biological effects of laser therapy

Tissue repair
Normalisation of cell function
Faster wound healing
Reduced fibrous tissue formation
Anti-inflammatory
Pain-relieving
Improved blood circulation
Increased metabolic activity
Improved nerve function
Immunoregulation
Resolution of trigger points
Acupuncture point stimulation

State-of-the-art laser technology, highly effective and modulated

Laser technology with four wavelengths The wavelengths are modulated according to the specific indication to ensure an optimal, patient-specific treatment plan.

650 nm

Acts on superficial receptors
Accelerates surface healing
Increases cellular regeneration
Shortens healing time

810 nm

Acts on mitochondria
Increases the conversion of O₂ to ATP
Accelerates cellular metabolism
Stimulates the immune system

915 nm

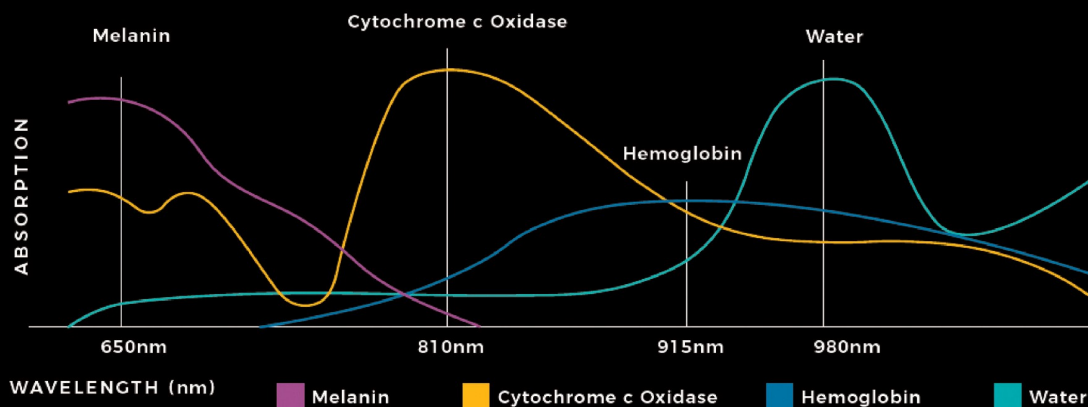
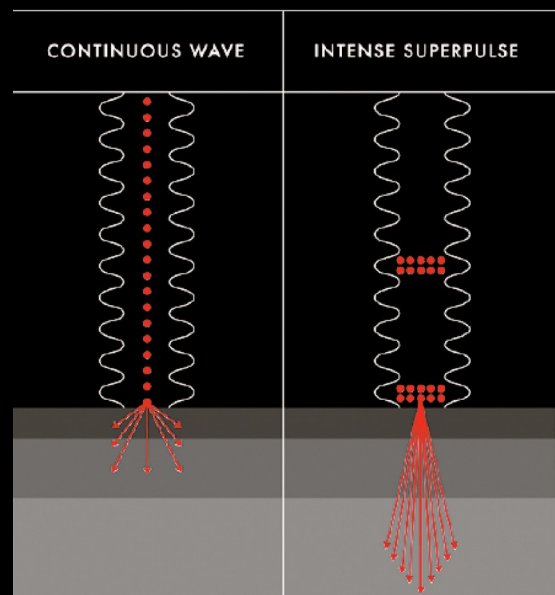
Acts on haemoglobin
Increases the supply of O₂ to the tissue
Accelerates pain relief and healing

980 nm

Acts on water in the blood
Improves blood circulation
Relieves pain
Reduces morbidity

Intensive Superlus Mode (ISP)

Delivers a peak power of 28 W of laser energy to deeper tissue (>10 cm).



Immediate and lasting results

Clinical effectiveness – wide range of applications

Most patients experience significant pain relief after just the first treatment.

Acute musculoskeletal injuries usually heal after four treatments, whilst chronic pain subsides permanently after 6–8 treatments.

- Osteoarthritis
- Epicondylitis
- Post-operative pain
- Sprains
- Tendinopathies
- Neck and back pain
- Shoulder pain
- Wrist pain
- Sports injuries
- Neuropathies and phantom pain
- Leg ulcers (open leg)
- Diabetic foot syndrome
- Pressure ulcers
- Wounds following accidents and surgery

Efficient and cost-effective

The treatment itself takes only a few minutes. A variety of indication-specific treatment programmes modulate the laser's four wavelengths to achieve an optimal therapeutic effect. Laser photobiomodulation can be combined with other treatments. Thanks to its wide range of applications, the laser usually pays for itself within 6 months.



SUMMUS LASER P4

Class IV therapeutic laser, redefining laser therapy 4-wavelength technology 650 / 810 / 915 / 980 nm
Power 28 watts Pulse frequency 0–20,000 Hz 1,300 therapy protocols



SUMMUS LASER H1

Class IV therapeutic laser 3-wavelength technology 650 / 810 / 915 nm
Power 16 watts Pulse frequency 0–20,000 Hz 165 therapy protocols



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