

# DioBeam® 830

## Low Level Laser



An Essential Therapeutic Tool for every Health Practitioner



### CLINICAL EFFECTS OF LOW LEVEL LASER THERAPY

#### Immune System Modulation

Onset is rapid (minutes/hours) and the effect is local.

- Increased Leukocytes
- Decreased Histamine
- Decreased Bradykinin
- Decreased Substance P
- Decreased Acetylcholine

#### Pain Relief

Inhibits the fibres that carry pain sensations to the brain (c-fibres).

Stimulates B-endorphins (body's own pain killer).

Low level laser can be used on its own or as an adjunct to other treatment modalities to achieve pain relief in 75-95% of patients after procedures and surgeries.

#### Muscle Relaxation

A variation of the direct effect on the nerve cell membrane

The effect is instantaneous and, in some cases, also contributes to the overall sensation of pain relief and relaxation (locally).

Plays major role in sports therapy where it is important to treat muscles acutely and effectively.

#### Stimulation of Wound Healing

#### Analgesia

#### Increased Collateral Circulation and Microcirculation

#### Increased Collagen Formation and Fibroblast Stimulation

### WHAT IS A LOW LEVEL LASER?

- A LOW LEVEL LASER IS ONE WHICH WORKS AT THE CELLULAR LEVEL
- A LOW LEVEL LASER EMITS COHERENT AND FOCUSED ENERGY THAT PENETRATES DEEPLY TO STIMULATE TARGET TISSUE
- A LOW LEVEL LASER IS USED AS A THERAPEUTIC DEVICE - IT CANNOT BE USED TO CUT TISSUE



### ADDITIONAL CLINICAL EFFECTS

- Stimulation of ATP Production
- Transformation of fibroblasts to myofibroblasts
- Stimulation of Osteoblasts
- Stimulation of Odontoblasts
- Increased lymphatic flow leading to reduction in edema
- DNA & RNA Synthesis
- Growth factor release
- Stimulation of Nerve Regeneration



