

**TREATABLE CONDITIONS AT
BOYNE TANNUM CHIROPRACTIC &
ACUPUNCTURE CENTRE**

Low-Level Laser has proved to be effective in, but not limited to, treating the following indications:

Infra-Red Wavelengths:

Soft Injuries such as:

- Capsulitis, Bursitis
- Sprains & Strains & Bruises
- Tendonitis

Acute & Chronic Joint conditions including:

- Knee & Elbow Pain
- Rheumatoid Arthritis & Osteoarthritis
- Ligament & Tendon injuries

Chronic Pain such as:

- Post Herpetic Neuralgia
- Chronic Back & Neck Pain
- Trigeminal Neuralgia
- Plantar Fasciitis
- Frozen Shoulder
- Carpal Tunnel

Other:

- Herpes
- Ulcers
- Leg Ulcers
- Dermatitis
- Wound Healing
- Burns
- Acute Epididymitis
- Scar Tissue
- Acne

Highly Qualified Professional Practitioners who are committed to assist in improving your wellbeing, realizing healthy lifestyles

For your assistance contact:

Dr. Johann Bekker

**B.Sc. Chiropractic (New Zealand)
Masters degree Acupuncture (Australia)
BA Social Science (South Africa)
Certificate Radiographer (South Africa)
Advanced Massage Course (New Zealand)**

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**Masters degree Acupuncture (Australia)
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**Boyne Tannum
Chiropractic & Acupuncture
Centre**

**Low Level
Laser
Therapy**



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WHAT IS LOW LEVEL LASER THERAPY (LLLT)?

Low-level Laser Therapy, commonly known as LLLT, is a form of phototherapy that involves the application of low power monochromatic and coherent light to injuries and lesions to stimulate healing.

LLLT is used to increase the speed, quality and tensile strength of tissue repair, resolve inflammation, and relieve pain. The technical term often used to describe this form of therapy is 'photobiostimulation'.

CLINICAL USES OF LLLT

There are a number of potential clinical uses for LLLT, such as medical, [Acupuncture](#), dental, podiatric, [Chiropractic](#), osteopathic, and cosmetic applications. The most popular applications of LLLT are in veterinary, physiotherapy, and [Acupuncture](#) practices.

The portability and diversity of battery and mains-powered diode laser system allows treatment to be carried out in clinical, hospital, and field locations. This allows for immediate and therefore more effective treatment of sporting and athletic injuries, such as muscle and tendon tears as well as haematomas.

It is an desirable form of treatment for both human and animal athletes, especially those involved in professional sports, due to the prospect of shorter recovery and lay-off times.

ADVANTAGES OVER OTHER MODES OF THERAPY?

LLLT has been found to offer superior healing and pain relieving effects compared to other electrotherapeutic modalities, especially in the early stages of acute injuries and for chronic problems. LLLT can also be used for [Acupuncture Point Stimulation](#).

At Boyne Tannum Chiropractic & Acupuncture Centre LLLT is utilized as a universal method of treating muscle, tendon, ligament, connective tissue, bone and skin tissue, however, the best results are achieved when it is used to complement other treatment modalities.

Of importance for athletes is the fact that LLLT is a non-invasive, drug-free modality that can be applied on competition day without risking disqualification by drug-vetting tests.

HOW DOES IT WORK?

The effects of LLLT are photochemical, not thermal. Photons enter the tissue and are absorbed in the mitochondria and at the cell membrane. The photonic energy is converted to chemical energy within the cell, in the form of ATP. Cell membrane permeability alters, allowing physiological changes to occur. These physiological changes affect macrophages, fibroblasts, endothelial cells, mast cells, bradykinin and nerve conduction rates, ultimately bringing about fast healing effects.

LASER POPULARLY USED AT BOYNE TANNUM CHIOPRACTIC & ACUPUNCTURE CENTRE:

[Acupressure](#): Stimulate acupuncture points and trigger points.

[Joint Conditions](#): Capsulitis, Bursitis, Joint Tendonitis, Haematomas, Bruising.

[Reduction of Inflammation](#) with spinal injuries.

[Arthritis](#): Both Osteo (OA) and Rheumatoid (RA).

[Wound Management](#): after surgery, Ulcers, & Pressure Sores.

[Dermatological Conditions](#): Acne Vulgaris, Roseacea, Eczema, and Herpes.

REPORTED BENEFITS OF LLLT:

[Rapid Cell Growth](#): Laser accelerates cellular reproduction and growth.

[Faster wound healing](#): Laser stimulates fibroblast development in damaged tissue. The reduction in recovery time is an important factor
[Increased metabolic activity](#): Higher outputs of specific enzymes, greater oxygen and food particle loads on blood cells, more effective immune responses are induced by laser light.

[Reduced fibrous tissue formation](#): Laser reduces the formation of scar tissue following tissue damage from cuts, scratches, burns, or surgery.

[Anti-inflammatory action](#): Laser reduces swelling caused by bruising or inflammation of joints to give improved joint mobility.

[Increased vascular activity](#): Laser stimulates lymph and blood circulation, thus allowing the affected tissue to have improved circulation.

[Stimulated nerve function](#): Slow recovery of nerve function in damaged tissue can result in 'dead' limbs or numb areas. Laser will increase the process of nerve cell reconnection to bring the numb areas back to life. Laser also increases the amplitude of action potentials to optimize muscle action.

CONCLUSION

As each year passes, scientifically conducted clinical trials and in-vitro research find more and more applications in which LLLT is not only appropriate, but also are more effective than conventional methods of treatment. Quite simply, LLLT works!

LLLT - Tomorrow's Medicine TODAY!!

[extremely suitable for Children](#)