

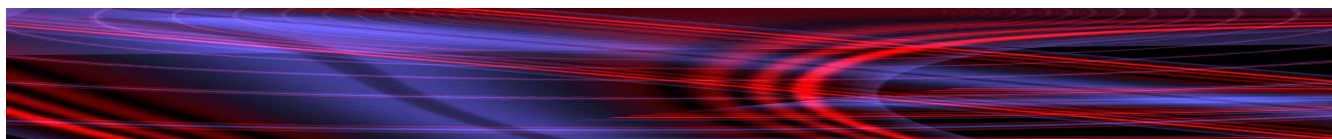
ERCHONIA

LOW LEVEL LASER THERAPY

Living in a PAIN FREE world



The Erchonia laser emits a visible coherent light that stimulates the body's ability to produce ATP, which allows a natural healing of the body in decreased time. Through this process pain and inflammation decrease, the natural range of motion of the joints return and optimal function of cellular physiology occurs on a more permanent basis.



TO OUR PATIENTS,

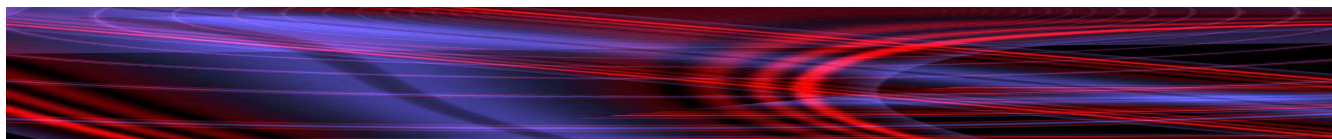
Maryland Sports Injury Center now offers the latest technological advancements in enhancing the body's ability to heal! The addition of *Erchonia's Low Level Laser* is another step in facilitating the road to optimizing your health.

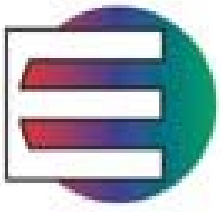
Erchonia was the first Company to receive FDA clearance for the use of Low Level Laser Therapy in the treatment of pain. Their commitment to continued research since the 2002 approval has led to the development of laser therapy protocols in wound healing, cosmetic procedures (liposuction/scar reconstruction) and acne. Since the publishing of Clinical Practice and Scientific Background in 2002, which is still considered the most authoritative text in the field, Erchonia Medical, Inc., has spent over 4 million dollars in research to further understand the potential of cold laser. The PL-5000 series in this office is capable of programming 100,000 frequency to the tenth and hundredth providing the most efficient treatment of the targeted tissue, regardless of depth.

The use of low level laser therapy will begin the process of enabling the body to restore its natural state of balance and health. Join the wave of the future and sign up for your appointment for Laser Therapy today. Enjoy living a healthy life!

Dr. Steven Horwitz, DC, CCSP, CSCS, USAW

Dr. Paul Glodzik, DC, CSCS



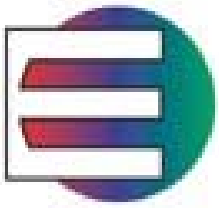


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“Over 30 years have passed since the first reports appeared on the biological effects of non-thermal laser light... Research efforts have matured both qualitatively and quantitatively. The question is no longer whether or not therapeutic lasers have biological effects, but rather how they work and how best to use them...therapeutic lasers have a tremendous and as yet untapped potential in the field of healthcare. It is now clear that therapeutic laser have no undesirable effects in the hands of a reasonably qualified therapist...A deeper knowledge of laser medicine will yield better clinical results as well as and greater pleasure in working...”



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◆ What is a LASER?

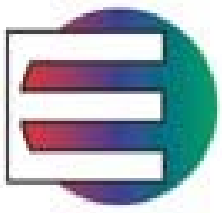
◆ Light Amplification by Stimulated Emission of Radiation - which is culminated and directed into an intense beam of coherent light through the use of cathode and anode reflecting components in order to produce a single stable frequency.

- ◆ Example: 3LT, Cold Laser, Low Level Laser
- ◆ Therapeutic Uses: Physiological, Neurological, and Musculoskeletal components of the human body on a *cellular level*.

◆ What is the difference between a LASER and a LED?

◆ Light Emitting Diode (LED) - is a narrow-banded light source. Generally LED's are small, inexpensive semiconductor lamps that produce red, yellow, green, blue and white light.

- ◆ Example: TV remotes (IR ~950nm), VCR, Cell Phone
- ◆ Therapeutic Uses: Light within desired spectrums have shown evidence of benefits limited to *superficial structures*.

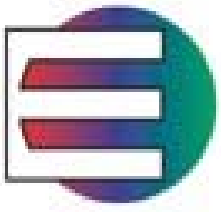


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APPLICATIONS OF 3LT

- Abrasions
- Abscess
- Acne
- Acute Injury
- ADD/ADHD
- Addiction
- Adrenals
- Allergies
- Alopecia
- Alzheimer
- Amnesia
- Anger
- Angina
- Anorexia
- Arrhythmias
- Arteriosclerosis
- Arthritis
- Asthma
- Athlete's Foot
- Backache
- Bedwetting
- Bites
- Bladder
- Bloating
- Bronchitis
- Bruises
- Bunions
- Burns
- Bursitis
- Candida
- Canker Sores
- Carpal Tunnel Syndrome
- Chronic Fatigue
- Chron's Disease
- Cirrhosis
- Cold Sores
- Colds & Flu
- Colic
- Concussion
- Congestion
- Constipation
- Cramps (muscular)
- Cuts
- Cushing's Syndrome
- Depression
- Detoxification
- Diabetes
- Dizziness
- Dyslexia
- Ear Ache
- Eczema
- Edema
- Emotional Stress
- Emphysema
- Facial Paralysis
- Fever Blisters
- Fibromyalgia
- Gingivitis
- Goiter
- Gout
- Headache
- Heartburn
- Hemorrhoids
- Herpes Simplex, Zoster
- High Blood Pressure
- Hives
- Hot Flashes
- Impotence
- Incontinence
- Indigestion
- Infection
- Inflammatory Bowel
- Inflammation
- Influenza
- Insect Bites
- Itching
- Jaundice
- Laryngitis
- Lyme Disease
- Lymphatic
- Meniere's Syndrome
- Menopause
- Migraines
- Nausea
- Osgood-Schlatter Disease
- Osteoarthritis
- Osteoporosis
- Pain
- Premenstrual Syndrome
- Pneumonia
- Post Traumatic Stress
- Psoriasis
- Rash
- Ringworm
- Rosacea
- Scar Tissue
- Sciatica
- Sinusitis
- Spider Veins
- Strain/Sprain
- Stress
- Sunburns
- Thrush
- Tinnitus
- TMJ
- Toothache
- Trauma (pre/post)
- Thyroid
- Ulcers
- Urinary Tract Infection
- Varicose Veins
- Viral Infections
- Vertigo
- Water Retention
- Warts
- Wounds



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MECHANISM OF 3LT

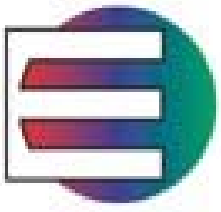
CELLULAR PHYSIOLOGY & HEALING

◆ Within cells the cytoplasm of the cell does what it is programmed to do. If it is a liver cell, it performs “liver functions”. If it is a heart cell, it contracts. Cells know what they are programmed to do and can accomplish this if they have the “ENERGY” to do so. This is how animals are capable of healing.

◆ The mitochondria of the cell are “petroleum refinery” plants. Mitochondria process glucose into ATP, the fuel for cells. Light photons convert ADP to ATP where it is transferred to the Peripheral Cytoskeleton and stored for future use. The peripheral cytoskeleton lies just inside the membrane.

◆ Cells can function without the membrane, with holes in the membrane, and even without a nucleus. They CANNOT function without a peripheral cytoskeleton.

◆ 632.8nm is the optimal wavelength for effecting this cytoskeleton. This allows for an increased potential and increased efficiency in healing. The Erchonia PL-series was designed to specifically meet these cellular parameters. The therapeutic benefits continue to exceed any original expectation of low level laser therapy.



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COMMON QUESTIONS

◆ How far does the laser penetrate?

◆ Depth of penetration is totally independent of the laser's output. Laser therapy achieves direct biological effects at depths of 1-4 cm in the tissue, depending on the type of laser used (red light or IR). Systemic effects are accomplished by circulation of blood and other forms of communication in the tissue, such as transport of transmitters or signal substances occurring at much deeper levels throughout the entire body (Turner & Hode, 344).

◆ Will the laser hurt me?

◆ Due to the "cold" properties of the laser there are no harmful effects to the human body. It is important to understand that lasers come in many different applications. While there are classification of laser that are made to cauterize the skin or cut/burn through for a more precise incision, there is also a therapeutic class which includes the low level laser AKA cold laser therapy which is bio-stimulatory and does not have harmful effects.