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## Quantum Healing Lasers

<http://quantum-healing-lasers.com/TerraQuant-Cold-Laser.html>

Ph Toll Free 1-888-824-7558

**TERRAQUANT LASER Pro Packages — Advanced non-invasive Low Level Laser Therapy based on Quantum Medicine. Used in over 30 Countries and by Special Forces of 7 Countries, NBA and Olympic Athletes. Now FDA Cleared for Pain! New Improved TerraQuant Pro with 5 specialty packages to choose from including TQ Solo for home or portable/field use & TerraQuant Elite for Pros. Prices starting at \$1995.**

The most versatile of Healing Lasers that offers world-class performance and affordability. Superior to Cold lasers that cost thousands of dollars more.

TerraQuant is a professional low level laser therapy (LLLT) device that is used in homes, clinics, hospitals and private practices in over 30 countries around the world for over ten years, & now available in the US for 6+ years. Low Level Lasers such as the TerraQuant are called cold lasers because they don't generate heat and will never scorch or burn, making them extremely safe and easy to use. TerraQuant Lasers make laser treatments, pain relief and healing easy, fun, safe and affordable. It's more effective and more versatile than most other lasers that we have tested and it tends to provide quick results for the widest range of conditions.



**The Only Laser to Provide 4 Healing Energies in One Device:**

TerraQuant utilizes 4 healing energies that work synergistically together to create a quantum healing effect never before available. The 4 healing technologies include:

- Super Pulsed Laser Light in the 905 nm range with 25,000 mW and up to 5" penetration.
- Pulsed Broadband Infrared light (wavelengths 875 nm)
- Pulsed Red light (wavelengths 660nm)
- Negative North Permanent Magnetic Field (at 25-45 mT)
- Hertz frequencies from 5-3000 Hz/sec., all controlled by a microprocessor that super pulses the laser light at 10 millionth of a second for maximum penetration up to 5 inches.

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**NEW:** TerraQuant Pro has recently been upgraded and the newest models can now be used with 1 or 2 hand-held emitter heads, plus the LS-50 Superpulsed laser shower emitter is now available for serious pain management and increased treatment possibilities.

**Digital Console:**

The state-of-the-art digital console makes choosing a mode or program very easy. The User can choose between 5 programs that are preset for treatment of numerous conditions including: acute and chronic pain, joint problems, repetitive stress injuries, back problems, hip and shoulder problems, wrist and elbow problems, inflamed or infected muscles, skin conditions (including acne), wound care, burns, scars, wrinkles, anti-aging, cosmetics and much more.

**Price:**

TerraQuant Laser models range in price from \$1995 to \$5790. Current models are the TQ Solo, TerraQuant Pro, TerraQuant Duo and TerraQuant Elite. Laser packages include Free UPS ground shipping, informative operators manual with numerous protocols for each of the 5 modes and dozens of conditions, 2 pairs of protective eye glasses, a 24 month warranty and a carrying case. Prices start at \$1995.00. Order by calling one of our cold laser specialists toll free at: 1-888-824-7558.

**Some clinically observed effects of SuperPulsed Infrared & Low Level Laser Therapy include:**

- analgesic (pain relieving)
- anti-inflammatory action
- activation of protein synthesis (RNA, DNA)
- sedative action
- anti-allergic and anti-edematous
- activation of ATP synthesis (chemical energy of the cell)
- stimulation of healing
- promotion of tissue regeneration
- shortened wound and fracture healing period
- antispasmodic action of muscles and vessels
- trophic action
- immune modulator effect
- antihistaminic effect
- anti infection effect
- energetic effect
- improvement of blood micro circulation
- increased tissue resistance to oxygen deprivation
- increased muscular efficiency
- shortened recovery period
- activation of neuro-reflex system

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- stimulated function of central nervous system
- increased production of endorphin providing anti-stress effect
- bactericidal and bacteriostatic
- stimulation of enzyme synthesis
- enhancement of collagen synthesis
- anti-edemetic effect (helps remove excess fluid)
- stimulation of specific and non-specific immunity
- strong antioxidant effect
- normalization and activation of prostaglandin synthesis
- decrease in the lipid peroxidation rate
- none-invasive, drug free, pain free and surgery free therapy that is beginning to revolutionize our approach to healing.

You can view many details about the TerraQuant laser and other cold lasers on our website at: <http://quantum-healing-lasers.com> you can also download a comprehensive pdf file of a cold laser presentation by right clicking on this link:

[http://quantum-healing-lasers.com/Cold\\_Laser\\_Presentation.pdf](http://quantum-healing-lasers.com/Cold_Laser_Presentation.pdf)

Following is considerably more information, however if you wish to, you can download the additional 4 informative TerraQuant Laser pdf files below by just clicking on them or copying and pasting into your browser:

- <http://quantum-healing-lasers.com/TerraQuant.8pgs.pdf>
- <http://quantum-healing-lasers.com/TerraQuant-MQ2000.Laser.pdf>
- <http://quantum-healing-lasers.com/TerraQuant.Medical.Data-Plus.pdf>

## Operating The TerraQuant Laser:

TerraQuant is very easy to use. Its state-of-the-art menu-prompted console offers up to five programs that are preset and a 6<sup>th</sup> program with selectable parameters chosen from the user manual. The 6 modes are:

1. Pain Syndrome
2. Chronic Pain Syndrome
3. Skin and Wound Care
4. Anti-Aging and Cosmetic Skin Rejuvenation
5. Variable – This mode cycles through the spectrum of 5-3000Hz frequencies
6. Manual Mode – Allows user defined programming for Specific Treatment Options

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**Significant reduction of pain & inflammation can be seen in 1 to 10 treatment procedures performed once or twice daily, or 2-3x/week depending on condition being acute or chronic. Terra Quant therapy is easily and safely performed by holding the emitter or “scanning” it in a circular motion over the painful area. Additionally a 4 piece kit versatile treatment, crystal probes and a facial attachment can be purchased to meet your specific treatment needs for \$229.**

**Price:**

**TerraQuant Laser models range in price from \$1995 to \$5790. Current models are the TQ Solo, TerraQuant Pro, TerraQuant Duo and TerraQuant Elite. Laser packages include Free UPS ground shipping, informative operators manual with numerous protocols for each of the 5 modes and dozens of conditions, 2 pairs of protective eye glasses, a 24 month warranty and a carrying case. Prices start at \$1995.00. Order by calling one of our cold laser specialists toll free at: 1-888-824-7558.**

**† Doctor Edgar Mitchel writes:**

**“The problem of present-day medicine is that over centuries Western Scientific thought has been concentrated around a chemical model of organization and function of molecules, tissues and organs in our body. However, this biochemical model should be expanded to deeper levels by including electromagnetic and quantum processes that play a crucial role in self-organization of living nature.”**

**† Edgar Mitchel , Doctor of Technology Apollo 14 astronaut, founder of the Institute of Spiritual Science**

**Quantum Medicine and Terra Quant  
By Prof. Samuel Edelstein**

**Quantum Medicine (QM) is a medical methodology which incorporates therapeutic effects of different electromagnetic fields, such as pulse laser radiance, broadband infrared radiance, visible red light and static magnetic field, in order to transform living cells from an unstable state of illness into a stable healthy state. One striking common denominator in all the clinical cases that QM is effective is inflammation. The sequence of events at the tissue level, which leads to the pathological state of inflammation is reduced micro-circulation with changes in blood supply to the cells, resulting in ischemic injury. Any influence that will be able to shorten the duration of the ischemic state will have beneficial effect on the course of the disease and the accompanying pain.**

**The radiances mentioned above are capable, within a few hours after irradiation of the painful tissue, to improve the supply of oxygen to the hypoxic cells, to improve the microcirculation and to remove toxic waste products from the site. The tissue is rejuvenated and the pains disappear. All the above is achieved by chemical processes in the cells that are responsive to bio-photons. The molecules in the cells that are capable to respond, called chromophores, are porphyrines, enzymes with antioxidant properties, mitochondrial cytochromes and molecules of oxygen. Their response will result in renewed energy production (ATP) and restoration of all impaired cellular functions.**

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**TerraQuant** is the only device available today, which combines together pulsed red light, pulsed broadband infrared light, superpulsed infrared laser and static magnetic field, providing their synergistic therapeutic effects. Incorporating all these radiances in one apparatus enables one to achieve rapid and efficient clinical effect within a relatively short time.

**TECHNICAL SPECIFICATIONS:**

**Average Power:**

<b>Total Radiation</b>	<b>60 - 90 mW</b>
<b>1 Diode Laser Light (Super Pulsed)</b>	<b>0.4 -7.5 mW</b>
<b>4 Diodes Infrared Light</b>	<b>30 - 90 mW</b>
<b>4 Diodes Red LED's</b>	<b>02 - 10 mW</b>
<b>Permanent Magnet Induction</b>	<b>25 - 45 mT</b>
<b>Superpulsed Diode Peak Power</b>	<b>25 Watts</b>

**Wavelength:**

<b>Laser (average of 904 nm)</b>	<b>905 nm</b>
<b>Infrared Light</b>	<b>875 nm</b>
<b>Red Light</b>	<b>660 nm</b>

**Laser Class 1M (IEC 60825-1)**

**Supply ratings 13.5 Vdc, max. 0.7A**

**Weight 1.5 kg (approx. 3.3 pounds)**

**Dimensions - 24 cm x 22 cm x 9 cm**

**Price:**

**TerraQuant Laser models range in price from \$1995 to \$5790. Current models are the TQ Solo, TerraQuant Pro, TerraQuant Duo and TerraQuant Elite. Laser packages include Free UPS ground shipping, informative operators manual with numerous protocols for each of the 5 modes and dozens of conditions, 2 pairs of protective eye glasses, a 24 month warranty and a carrying case. Prices start at \$1995.00. Order by calling one of our cold laser specialists toll free at: 1-888-824-7558.**

**Ask about quantity discounts if multiple units are needed.**

**FREE SHIPPING IN CONTINENTAL USA for general delivery**

**\$25 Shipping in HI, AK, Porto Rico and US Virgin Islands**

**\$65 for FEDERAL EXPRESS 2nd DAY DELIVERY**

**\$75 for FEDERAL EXPRESS NEXT DAY DELIVERY**

**We accept: VISA, MC, AMEX, Discover and PayPal**

**You can order now by dialing toll free 1-888-824-7558**

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We look forward to hearing from you and answering your questions. It is our goal to provide you with the best cold laser for you, your practice or your clients specific needs. Please call toll free for a consultation with a cold laser specialist.

You can call now by dialing toll free 1-888-824-7558. Or visit us online and learn more about the TerraQuant Laser Pro Here:

<http://quantum-healing-lasers.com/TerraQuant-Cold-Laser.html>

## TESTIMONIALS:

Integrated Health Recovery  
Physical Rehabilitation Services  
8403 Yonge Street Suite #2  
Thornhill, Ontario L3T 6R2

Dear Colleagues,

We would like to share with you our experience in using a new advanced, non-invasive pain relief device based on Quantum Medicine--the TerraQuant uses pulse laser and infrared therapies in a unique combination with therapeutic red light and magnetic field generation.

After using this device in our clinic, mostly for patients with fibromyalgia, various sports injuries, arthritic pain and plantar fasciitis, we found it has significantly improved patients' clinical picture. The duration of treatment was much shorter compared with other modalities and recovery was improved.

Sincerely,

Dr. Zakhary Simkovitch, MD (Europe), Ph. D., C.A.F.C

Dr. Vladimir Levitin, B.Sc., D.C.

Pulsed infrared laser radiation from the TerraQuant Laser † penetrates tissues 10-13 cm (4-5 inches) deep and has strong stimulating effects on blood circulation as well as on membranous and intracellular metabolism. It activates immunocompetent systems and improves neurohumoral and hormonal regulation of metabolism. Clinical Effects:

- activation of protein synthesis (RNA, DNA)
- stimulation of enzyme synthesis
- activation of ATP synthesis
- improvement of blood circulation

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- promotion of tissue regeneration
- enhancement of collagen synthesis
- anti-inflammatory
- antiedematous effect
- analgesic effect
- decrease of cholesterol level
- stimulation of specific and non-specific immunity
- strong antioxidant effect
- normalization and activation of prostaglandin synthesis
- decrease in the lipid peroxidation rate.

## **Carpal Tunnel Syndrome (CTS)**

**Carpal Tunnel Syndrome is the #1 reported medical problem facing healthcare providers today, accounting for about 65% of all work-related injuries. The American Academy of Orthopedic Surgeons estimate Carpal Tunnel Syndrome costs patients and insurance companies over \$27 Billion dollars annually. The TerraQuant Laser offers carpal tunnel patients an effective alternative to drugs and invasive treatments. Using the emitter head of the TerraQuant, practitioners can strategically target the inflamed tissue of the medial nerve and surrounding areas, providing relief to the debilitating pain and discomfort associated with Carpal Tunnel Syndrome.**

**Treatment with low-level laser therapy (LLLT) was shown effective in treating Carpal Tunnel Syndrome pain . Another study, significant decreases in McGill Pain Questionnaire scores, median nerve sensory latency, and Phalen and Tinel signs were observed after treatment series with Low Level Laser Therapy. † Patients could perform their previous work (computer typist, handyman) and were stable for 1 to 3 years.**

**Major principles of multi-factor quantum therapy, prophylaxis and rehabilitation:  
Benefits of the 4 TerraQuant healing energies described:**

- **Quantum therapy uses low-energy, i.e. safe electro-magnetic radiation that has beneficial effects on intracellular and intercellular processes.**

• The following most effective models of electromagnetic radiation have been selected on a basis of long-term studies:

- magnetic effect
- low-intensity pulse infrared laser radiation
- wide-band infrared radiation
- red light

The magnetic field † provides energy-mediated protection of organism against the deleterious environmental impacts, including climatic factors and electromagnetic fields. The magnetic field also keeps ionized molecules of tissues in a dissociated state, thus enhancing the energy potentials at the molecular and cellular levels.

• **Clinical Effects:**

- pain relief
- improvement of cell regeneration potential
- improvement of tissue nutrition

Superpulsed infrared laser radiation from the TerraQuant Laser † penetrates tissues 10-13 cm (4-5 inches) deep and has strong stimulating effects on blood circulation as well as on membranous and intracellular metabolism. It activates immunocompetent systems and improves neurohumoral and hormonal regulation of metabolism. **Clinical Effects:**

- activation of protein synthesis (RNA, DNA)
- stimulation of enzyme synthesis
- activation of ATP synthesis
- improvement of blood circulation
- promotion of tissue regeneration
- enhancement of collagen synthesis
- anti-inflammatory & antiedematic effect
- analgetic effect
- decrease of cholesterol level

- stimulation of specific and non-specific immunity
- strong antioxidant effect
- normalization and activation of prostaglandin synthesis
- decrease in the lipid peroxidation rate

Continuous incoherent infrared radiation † penetrates shallower tissue depths and has a broader spectrum compared to laser radiation. It has powerful tonic effects on the central and vegetative neural systems.

- Clinical effects:
- prevention and treatment of cellulite
- heating of superficial tissue levels
- influence on skin receptors, with an increase of pain threshold
- activation of microcirculation
- improvement of epithelium and skin regeneration
- deepening of laser radiation penetration into tissues.

Pulsed red light is identified with beneficial anti-inflammatory effect (especially in areolar tissue). According to long-term studies, pulsed red light is known to improve psycho emotional tonus.

- In addition, red light makes a treated area visible and has a local warming and psychotherapeutic effect.
- Clinical effects:
- analgesic effect
- prevention and treatment of cellulite
- improvement of microcirculation
- antiedematic effect
- marked therapeutic effects on joints with the abundant areolar tissue.

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### **Significant, Rapid Pain Reduction**

- **TerraQuant can significantly reduce pain in 1 to 15 treatment procedures. The procedures can be performed once or twice daily or every other day. Each treatment procedure takes 5 to 10 minutes.**

### **Designed for Professional and Home Use**

- **TerraQuant is very easy to use and can be used without medical supervision at home or by a health professional or therapist at a clinic or hospital.**

### **Conditions that Respond Well to TerraQuant**

- **-Spinal diseases comprising early**
- **osteocondriosis**
- **scoliosis**
- **intervertebral disk hernia**
- **post-traumatic pain**
- **carriage disorders**
- **radiculitis**
- **ischialgia**
- **-Joint disease, such as**
- **arthritis**
- **arthrosis**
- **coxarthrosis**
- **contractures**
- **calcaneal spurs**
- **myositis.**
- **Sunburn**
- **Acute (traumatic) & chronic pain, neck & back pain**

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- **Tendonitis, carpal tunnel syndrome, tennis/golfer elbow**
- **Acne, eczema**
- **Non-healing ulcers**
- **Sinusitis, tonsillitis**
- **Fibromyalgia**
- **Migranes**
- **Tinnitus**
- **Use of TerraQuant increases the speed, quality and strength of cell tissue repair, increases blood supply to the affected area, stimulates the immune system, stimulates nerve function, develops collagen and muscle tissue, helps generate new healthy cells and tissue and promotes faster wound healing and clot formation. This method can even provide significant results for the elderly, or patients suffering from long-term illness or cell damage, even in cases that were previously considered to be hopeless.**
- **It is important to emphasize that therapy with TerraQuant does not exclude other conventional medical treatment. On the contrary, combining it with other treatment may result in rapid recovery and may enable the reduction in doses of conventional drug consumption.**
- **A laser focuses light with various wavelengths. High intensity lasers generate heat and are commonly used in surgery. Low level lasers have a positive effect on bodily tissues.**
- **Low level lasers neither generate heat nor scorch, and use only light, which makes them a fast, safe and precise healing measure, with no risk or after effects, and no need for surgery, anaesthetics or drugs.**
- **Clinical effects:**
  - **stimulates of the immune system**
  - **analgetic effect**
  - **anti-inflammatory effect**
  - **facilitates tissue lesion regeneration**
  - **improves blood circulation**
  - **improves nerve conductivity**

## CLINICAL DATA

- **Advantages of quantum medicine.**
- **TerraQuant is portable and ecologically safe. This versatile device has a variety of uses in rural, field and military conditions, schools, sport centers, industrial enterprises and correctional facilities.**
- **Completely safe - quantum energy released by TerraQuant does not exceed 1.5 electron-volts (please refer to the manual), which is not sufficient to impair natural processes and disrupt polymer intermolecular links.**
- **Increases efficiency of conventional drug therapy**
- **Allows significant reduction of drug dosage and in some cases alleviates the need for conventional drug therapy**
- **Leads to 2-3 times faster recovery and rehabilitation (check the list of pre-existing conditions)**
- **Cuts inpatient care costs by reducing time required for inpatient treatment**
- **Offers more possibilities for outpatient treatment**
- **No side effects**
- **Non-invasive**

## Testimonial Letters, Clinical Studies and a Bibliography Below

**THE TERRA QUANT MQ2000 HAS BEEN SHOWN TO BE EFFECTIVE IN TREATMENT OF OVER 200 DISEASES THROUGH USE IN 30 COUNTRIES AROUND THE WORLD:**

**tonsillitis, arthritis, arthrosis, pain syndromes, bronchial asthma, bronchitis, sinusitis, gastritis, gastroduodenitis, hemorrhoids, herpes simplex, herpes zoster, hypertension, intestinal dysbacteriosis, ischemic heart disease, cardiac neurosis, colitis, laryngitis, myositis, neuritis, neurosis, some forms of infertility, spinal osteochondrosis, otitis, pyelonephritis, pneumonia, asthenic conditions, post-traumatic and postoperative conditions, prostatitis, radiculitis, rhinitis, chronic fatigue syndrome, stomatitis, tracheitis, urethritis, pharyngitis, gastric and duodenal ulcer and others.**

## CASE HISTORIES

**Patient M., a 15-year girl with an 8-year history of total alopecia. She was treated with conventional modalities for 7 years, without positive effect. Four courses of 15 quantum treatments induced active hair growth. The hair length was 12 cm by the 6th course. She has been doing well recently.**

**Patient Z., a 7-year boy with a 5-year history of enuresis, with two-three nocturnal episodes of profuse urination. Two courses of TerraQuant quantum treatments stopped urinary incontinence. He began to be awakened by early urination urge. He feels well over the past six months.**

**Patient N., a 57-year male, with a 10-year history of mixed arthritis. Over the past four years, he walked with crutches because of severe joint pain. Pain was significantly relieved by two courses of quantum therapy, 15 alternate-day treatments each. The patient can sleep at night without hypnotics. Pain was reversed by the third course of 15 alternate day treatments. The patient changed crutches for a walking-stick and began to take two-hour outdoor walks. He was able to travel to his countryside land plot last year.**

**Patient O., a 48-year female with a 9-year history of ischemic heart disease. Heart pain episodes recurred 5-6 times a day and were reversed only by sublingual nitroglycerin. Her drug intake included sustac, nitrosorbite and celanid. The patient's condition was improved by two courses of 15 alternate day quantum treatments. The painful episodes became less frequent, milder and reversible by one tablet of sublingual nitroglycerin. She decreased her drug intake twofold. The patient withdrew drugs after the third course (10 treatments). She gets a maintenance quantum therapy course every three months.**

**Patient L., a 42-year businessman with a three-year history of duodenal ulcer. He used analgesic, antacid, sedative and spasmolytic drugs. His complaints were sleep disorders, which shortened his**

**sleep to two-three hours and irritability. The first course (15 treatments) much improved his general condition and protracted sleep to 6-8 hours. The patient reports no pain or recurrence of his old symptoms. He gets maintenance quantum therapy two times a year.**

**Patient B., a 69-year male with a 10-year history of chronic mixed knee arthritis which over the past two years kept him indoors and moving with crutches because of severe knee pain during the walking. Pain disappeared after two courses of 15 quantum treatments. The patient freely moves without crutches, takes outdoor walks and goes shopping.**

**Patient B., 42 years. His complaints were chronic stress, undue fatigue, sexual dysfunction, irritability and sleep disorders. After a course of therapy, he reported vigour, enhanced sexual potency, sleep normalization and return of the working ability.**

**Patient M., an 8-year old girl with a six-year history of severe chronic tonsillitis recurring 4-5 times a year. With time she began to have heart, arm and leg joint pain. She was given**

ten quantum treatments. There have been no tonsillitis and pain relapses over the past six months.

Patient K., a 47-year male who underwent gallbladder resection for calculous cholecystitis eight years ago. The operative scar healed by secondary intention with formation of a fistula, which periodically oozed ichor. After a course of quantum therapy, the fistula closed, and the scar flattened.

Patient S., 40 years. He suffered chronic post-traumatic spinal pain associated with a fracture of the 9th-10th thoracic vertebra caused by a car crash five years ago. Pain was reversed by a course of quantum therapy.

### **Testimonial from Doctor Katie Kulba, August 8, 2006**

"Dear Mr. Prensky,

The speed and quality of the results I am getting with my first patient on the TerraQuant laser has been so amazing, it certainly floored me. My patient had obvious internal scar tissue from five surgeries and a trigger finger that resulted from the last surgery. He has been in excruciating pain on movement of his right wrist, which was pretty much unusable. Each laser treatment is bringing more and more of his wrist back. He has undergone four years of surgery and therapy with poor results, and now in just 30 minutes total of laser his recuperation has been miraculous.

He has not been able to write and he can now write and use a knife and fork. He was on hydrocodone for four years and that is over yesterday. I was worried that his condition would come back, but today I am not, because his arm is so free it just could not. It is so amazing it is beyond belief. I knew the laser was amazing but I did not expect this kind of result on this patient. I was hopeful of achieving perhaps 20-30 per cent reduction of the problem, but it appears that after 3 treatments we are cruising on 70 per cent.

Thank you for a great product,  
Dr. Katie Kulba"

**CLINICAL TEST REPORT:**

**"APPROVED" Ministry of International Affairs**

**Head of Hospital of the Russian Federation**

**Doctor of Science, Main clinical hospital, city of Moscow**

**Colonel**

**signature S. Shets**

**TerraQuant-04/04 (M22D)**

**Magneto-infrared laser apparatus - Terra Quant for quantum therapy**

**• Main clinical hospital of the Ministry of Internal Affairs of the Russian Federation is the leading medical institution in Russia . It provides medical services for employees of the Ministry of Internal Affairs.**

**The hospital staff is 920 employees including 11 Doctors of Science and 38 Ph. D.**

**The hospital has available contemporary medical-and-diagnostic base. Clinical base consists of: 3 therapeutic departments; 2 surgical departments: surgical block and traumatologic division; anti-burn center; department of physiotherapy and rehabilitation; clinical-and-diagnostic laboratories; department of functional diagnosis.**

**All the department are equipped with up-to-date medical and diagnostic equipment.**

**The clinical test has been conducted at the base .of traumatologic division (60 beds).**

**Period of the clinical test: February-October 2000.**

**The patients of the following nosologies have been selected for the test:**

- 1) scapulohumeral periarthritis;**
- 2) posttraumatic injury of joints.**

**Patients of each nosology have been divided into 3 groups**

**Patients of group I underwent to traditional pharmacologic, surgical and physiotherapy treatment.**

**Patients of group II underwent to course of quantum therapy with use of TerraQuant-04/4 (M22D)/Terra Quant apparatus.**

Group III consisted of patients who underwent to placebo treatment by TerraQuant-04/4 (M22D)/Terra Quant apparatus imitator that was outwardly the same as real apparatus but hasn't any influence upon the patient.

The patients of group II were treated in accordance with the methods which have been developed and represented by JSC "TerraQuant" and applied as the user's manual.

**Patients' characteristics**

**Scapulohumeral periarthrititis**

**Total number of patients - 90,**

**including 72 men and 18 women**

**Patients' age: † 20-30 years old - 12 patients**

**31-40 years old - 24 patients**

**41-50 years old - 24 patients**

**61-70 years old - 10 patients**

**71 years and older - 9 patients**

**Medical history of patients: less than 1 year - 7 patients**

**less than 2 year - 9 patients**

**less than 3 year - 14 patients**

**less than 4 year - 22 patients**

**less than 5 year - 13 patients**

**6 years and more - 11 patients**

**The treatment course consisted of 12-15 sessions of daily procedures.**

**The positive effect criteria were as follows: cupping of pain syndrome, recovery of locomotory function, positive dynamic of roentgenologic examination.**

**Posttraumatic injury of joints**

**Total number of patients - 90,**

**including 81 men and 9 women**

**Patients' age: 20-30 years old - 12 patients**

**31-40 years old - 28 patients**

**41-50 years old - 24 patients**

**51-60 years old - 10 patients**

**61 years and older - 9 patients**

**Medical history of patients: † less than 1 year - 28 patients**

**less than 2 year - 34 patients**

**less than 3 year - 4 patients**

**less than 4 year - 8 patients**

**5 years and more - 6 patients**

**The treatment course consisted of 12-15 procedures.**

**The positive effect criteria were as follows: cupping of pain syndrome, recovery of locomotory function, positive dynamic of roentgenologic examination.**

**Positive effect 63%**

**Positive effect 86%.**

**Drug dose 27% less.**

**Treatment period - 6 days shorter**

**Positive effect 56%**

**Positive effect 81%.**

**Drug dose 17% less.**

**Treatment period - 2 days shorter**

**Positive effect 17%**

## **Evaluation of treatment with the Terraquant device for shoulder pain:**

A report by, Dr. Gabi Zeilig, MD

Department of Neurological Rehabilitation The Chaim Sheba Medical Center, Tel Hashomer, Israel

The purpose of this study is to test the efficiency of the Terra Quant device on shoulder pain resulting from inflammation (OA, Tendonitis, Bursitis) and muscle trigger points.†

### **Background:**

The Terraquant is an unique device which combines low level pulse laser therapy (LLLT), pulsating infrared radiation, visible red light and static magnetic fields, providing their synergic therapeutic effect. The primary effect of LLLT is a local time response to direct irradiation and includes vasodilatation with increased circulatory flow; increased macrophages and fibroblast activity and improved metabolic function of depressed or damaged cells. Delayed response consists of a systemic effect caused by circulating photoproducts of irradiation in the blood and lymphatic systems. Increased plasma concentration of certain types of prostaglandins and endorphins have all be identified and play a major role in the mechnism of pain attenuation.

LLLT has been shown to be safe and effective †(1,2,3,4)†

### **The Method:**

#### **Experimental design:**

The design is an A-B design, (pre-test post-test design) with a control group.† The study is a double blind using two indential unmarked Terra Quant devices, which one of is a demo device.† A sample of convenience according to set criteria's will be used.† The patients will be randomly assigned to two groups.† The experimental group received both conventional therapy and the Terra Quant treatment from a demo device.

## **Subjects:**

Twenty subjects with moderate to severe shoulder pain were recruited within a period of 1 month from the one of the departments of neurological rehabilitation affiliated to the Tel Aviv University.

Candidates were either inpatients or outpatients and they were selected after evaluation of symptoms based on† these criterias:

1. All candidates must present shoulder pain of a musculoskeletal benign nature such as inflammation, arthritis, muscle trigger point overuse, impingement, and degenerative changes.
2. All subjects must be referred by a Physician after a full physical evaluation including radiography.
3. Onset of symptoms should be between 2 weeks and 3 months.
4. Subjects should not have any additional medical conditions that will produce confounding results.† The subjects perceptual and cognitive status should be preserved.
5. Subjects should be medically stable.† Patients with a previous myocardial infarctions or pacemakers are excluded from the study.
6. Subjects will have to sign an informed consent.

## **Procedure:**

Subjects have been evaluated by a Physician and by a Physical therapist before the beginning of the treatment. Evaluation of Active Range of Motion of the shoulder joint (GHJ) using a goniometer.

Evaluation of muscle strength according to MMT.

Evaluation of pain using the Visual Analog Scale (VAS).

A total of 8 treatment procedures preformed every other day. After the end of the treatment the subjects have been †evaluated again by the same PT and MD to maintain inter-rater reliability.

Follow up was performed 1month after termination of treatment.

## **Conventional therapy:**

**A physical therapy protocol to treatment according to the diagnosis may include: manual therapy, soft tissue manipulation, AROM and strengthening but should not include modalities to prevent confounding factors.**

**Average treatment time: 30 min.**

**Terra Quant treatment: According to the protocol; 5 min per zone, Frequency: 50 HZ**

## **Results:**

**A total of 18 patients completed the study. There were 12 individuals with spinal cord injury (SCI), and 6 with hemiplegia following CVA. Among the SCI individuals, there were four with paraplegia and eight with tetraplegia. The average age of the participants was 46 + 15.5. 15 were males and 3 females. 12 of the total group had the VAS evaluation done before and after the termination of the treatment.**

**The device A was used in 8 patients; B in 10 patients. †**

**There was a clear improvement in shoulder ROM in the group treated with the device B (p=0.001).**

**The improvement in VAS scale was visible in the group B, yet did not reach a statistical significance (p=0.1).**

## **Conclusions:**

**Terraquant treatment proved to be significantly more efficient than placebo in patients with decreased shoulder ROM, and more efficient than placebo in patients with shoulder pain. No side-effects were observed.**

**The positive outcome of this study as well† as the lack of side-effects suggests that Terraquant therapy may be an effective and economical tool in the treatment of pain and reduced range of motion in people with shoulder problems following CVA or SCI.**

**Larger and randomized trials are needed in order to confirm this preliminary data.**

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## **TERRAQUANT - Defeating Pain**

**and**

## **LOW-LEVEL LASER THERAPY (LLLT)**

The TerraQuant Laser therapy device is the only device available today (in Australia and Worldwide) which combines together low level pulse laser radiation, and other radiations with clinical therapeutic modalities, pulsating infrared radiation, visible red light and static magnetic fields, providing their synergistic therapeutic effects. Incorporating all these radiances in one apparatus, achieves rapid and efficient clinical effects within a relatively short time.

### **Musculoskeletal Pain Syndromes (Chronic and Acute)**

LLLT has been shown to be effective in a variety of musculoskeletal conditions and associated pain presentations. †

Treatment with low-level laser therapy (LLLT) was shown effective in treating Carpal Tunnel Syndrome pain . † Another study, significant decreases in McGill Pain Questionnaire scores, median nerve sensory latency, and Phalen and Tinel signs were observed after treatment series with Low Level Laser Therapy. † Patients could perform their previous work (computer typist, handyman) and were stable for 1 to 3 years .

In Rheumatoid Arthritis , LLLT can benefit not only the pain of acute small joint inflammation but also the chronic pain . † In a review article on rheumatology (3), some 18 papers were considered. All studies involved double-blind trials with LLLT in chronic rheumatoid, and reported significant improvement in pain (80% success rate in relieving pain). † Upon comparing LLLT to a similar rate of pain attenuation using anti-inflammatory drugs (NSAIDs), the LLLT was free of any side-effects while 20% of patients treated with NSAIDs suffered unacceptable side-effects of medication . In another study of 170 patients with rheumatoid arthritis using LLLT (4), pain attenuation of up to 90% was noted . †

Trellis et al (6) used LLLT for osteoarthritis of the knee in 40 patients. He reported a significant reduction of 82% of the patients with improved joint mobility. † Among 36 randomized patients, with pain caused by cervical osteoarthritis , those who received Infra-Red and Low Level Laser treatment improved 75% compared with the group receiving mock treatment (31%) . † Similarly, a study of 60 patients with Cervical Osteoarthritis , Low Pulsed Laser was successful in relieving pain and in improving function

The results of a study show that cervical myofascial pain is significantly improved at 3-month with Diode laser . A similar successful LLLT treatment has been described for whiplash injuries . †

In a randomized study with 30 patients with supraspinatus or bicipital tendonitis , the results demonstrated the effectiveness of laser therapy in tendonitis of the shoulder . † Another study with a patient population (n = 324), with either medial epicondylitis (Golfer's elbow; n = 50) or lateral epicondylitis (Tennis elbow; n = 274), and randomly allocated , provides further evidence of the efficacy of LLLT in the management of lateral and medial epicondylitis .

In acute trauma there is a soft tissue injury comprising swelling, haematoma, pain and reduced mobility. Sporting injuries and domestic accidents usually involve damage to muscles, joint ligaments and tenclass. In the absence of bone fracture or other injury demanding priority treatment, LLLT should be instituted at the earliest opportunity. † Kumar reported a comparative study in 50 patients with inversion injuries of the ankle . He found that compared to conventional physiotherapy, the LLLT treated patients showed a more rapid resolution of symptoms and an earlier return to full weight-bearing .

Fibromyalgia (FM) is characterized by widespread pain in the body, associated with particular tender points. It is often accompanied by disturbed sleep patterns, fatigue, headaches, irritable bowel and bladder syndrome, morning stiffness, anxiety and depression. FM can cause a high level of functional disability and have a significantly negative effect on quality of life. † One study suggests that "Laser Therapy is effective on pain, muscle spasm, morning stiffness, fatigue, depression and total tender point number in Fibromyalgia " . ††

A randomized controlled study with 63 † with non-radiating low back pain showed that LLLT significantly improved pain and function

In summary, the bulk of published work to date supports the use of LLLT for treatment of a variety of musculoskeletal conditions and associated pain . Moreover, the LLLT proved to be not only more effective than conventional methods, but more economical as well. The added advantage of absence of side effects, non-invasive nature of therapy and the ease of application, ensures good patient acceptance of the treatment modality.

## **Bone Repair:**

In an experimental animal study, the effect of LLLT on bone repair was evaluated by computerized morphometric assessment . The assessment was carried out at different time intervals following fractures. It was observed that LLLT increased bone repair primarily at early stages of the healing process. This finding is in agreement with previous study that showed increased osteoblastic activity and increased number of blood vessels and the amount of mineralized bone at the fracture site in response to LLLT .

## **Wound healing:**

LLLT produced in vitro increases cell growth of 140-200% in mouse-derived fibroblasts , rat-derived osteoblasts and rat-derived skeletal muscle cells , and increased by 155-171% growth of normal human epithelial cells . Wound size decreased up to 36% in conjunction with hyperbaric oxygen HBO in ischemic rat models. LLLT produced improvement of greater than 40% in musculoskeletal training injuries, and decreased wound healing time. LLLT reduced by 47% pain of children suffering from oral mucositis .

In vitro, LLLT inhibits bacterial growth of E.coli, Staphylococcus aureus and Pseudomonas aeruginosa .

A randomized double-blind placebo-controlled clinical trial, on thirty consecutive patients with diabetic ulcers or gangrenes and elevated levels of glycosylated hemoglobin, has demonstrated an increase in skin microcirculation due to LLLT, which was an athermic effect, in patients with diabetic microangiopathy . † A clinical trial of LLLT, with the combined use of HBO, showed 81% healing of diabetic foot ulcers in patients who previously did not respond to a comprehensive treatment program. The authors conclude that this modality is safe, simple and inexpensive .

A placebo-controlled clinical trial, studying the efficacy of combined phototherapy with LLLT in the management of venous ulceration when used in conjunction with standardized nursing intervention, showed clinical difference in wound healing rate and a continued reduction in wound size at post-irradiation . † A double-blind, placebo-

controlled clinical trial of low energy photon therapy (LEPT) (Red and Infrared) in venous leg ulcers showed a decrease in ulcer area (compared to baseline) † of 193.0 mm<sup>2</sup> in the LEPT group and of 14.7 mm<sup>2</sup> in the placebo group respectively (P = 0.0002) .

A randomized, controlled study examined the effects of infrared and red pulsed monochromatic light with varied pulsations and wavelengths, in addition to standard treatment, on the healing of pressure ulcers . Patients treated with pulsed monochromatic light had a 49% higher ulcer healing rate, their mean ulcer area was reduced to 10% after 5 weeks compared with 9 weeks for the controls .

A controlled clinical trial of patients with two pressure ulcers (one for polarised light, one as control) examined the effect of polarized light on pressure ulcers of 1st, 2nd and 3rd grades. † Pressure ulcers subjected to extra treatment with polarized light in the early stages showed significantly greater improvement in the healing process than the control ulcers .

Pulsed high-frequency, high peak power electromagnetic energy has been shown to increase healing time in patients with Stage II ulcers unhealed within three to 12 weeks and those with Stage III ulcers unhealed within eight to 168 weeks by conventional methods. † Stage II ulcers healed in one to six weeks (mean 2.33) and all Stage III ulcers healed in one to 22 weeks (mean 8.85) .

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