

EM Pulser™



User Manual

Improved version of the EM Pulse (Solo and Trilogy) developed by the late Dr. Glen Gordon
upon the release of the four-year PEMF study by NASA

EM Pulser activates HSP 70, upregulates the growth and restorative genes while it downregulates the destructive or dysregulatory genes to help achieve homeostasis. These effects can have a profound influence on any disease.

Revised 2016 - **Model 103**

Warranty

The EM Pulser has a one year warranty from the date of purchase that includes parts and labor. It also has a thirty (30) day money back guarantee. We are confident of the integrity of your device and know that with proper use, it will give you years of service. If you have any service issues, call Integrity Research Institute to receive advice on your unit. If necessary, you will receive authorization to return the unit for repair or replacement. Even after one year, service is still available at a service fee.

For a refund on your purchase price within the first thirty days, proof of purchase is required. EM Pulser is not intended to diagnose, cure, treat, or prevent specific diseases, injury, or illness and no claims are made. The product has not been evaluated by the FDA.

Manufacturer's liability is limited to the return of the purchase price upon return to point of purchase, provided a claim is made within 30 days of purchase. EM Pulser carries a **1 year** warranty against manufacturer's defects with normal use (to be determined at manufacturer's discretion).

Disclaimer

The EM Pulser is an experimental device. It is not intended to prevent, treat, cure, or diagnose any disease. No claims are made for the use of the EM Pulser in any particular medical problem. None of the statements in this User Manual have been evaluated by the FDA. For medical conditions see your doctor for treatment.

This User Manual is for educational purposes only and does not address any specific individual circumstances. No medical advice or recommendations are offered, and no doctor-patient relationship is intended or established. Always visit your own licensed health care provider to obtain medical advice and/or treatment. In particular, your licensed health care provider should always be consulted before using any off-label treatment for a medical condition.



First Time Use Instructions

- PLUG BATTERY INTO BATTERY CHARGER AND LEAVE IT PLUGGED IN OVER NIGHT -

When using the EM Pulser for the first time, it is best to plug in the BATTERY and leave it plugged in for 24 hours. This will fully charge the Lithium Ion batteries and ensure that the proper cycling will be possible. It is also good during regular use to fully drain the batteries (operate for an hour or so with the RED light on) once in a while for the same reason.

General Directions

By Chief Engineer, Thomas Valone, PhD, PE

The EM Pulser utilizes the state-of-the-art pulsed electromagnetic fields (PEMFs) and specifically a square wave pulsed coil for a repeated magnetic field which is very penetrating. It is a major improvement approach with pulsed electromagnetic field (PEMF). Dr. Glen Gordon was a colleague of mine, a medical doctor, and a former speaker at our future energy conferences (COFE – www.futureenergy.org). He invented the old EMPulse and cured many people including himself of lots of conditions. It primarily was designed as a pulsed magnetic mode device that penetrates very well and we have kept that main feature in the new EM Pulser. Doctors have purchased the units, including the old EMPulse for their own use.

This revised and improved model renamed the EM Pulser retains the **vital “nanosecond risetime”** which Dr. Gordon championed as the major reason for its efficacy. In bioelectromagnetics, disturbing the tissue with a sudden change is more effective than a steady state field (electric or magnetic) or a sinusoidal, slowly or rapidly changing field. My book,

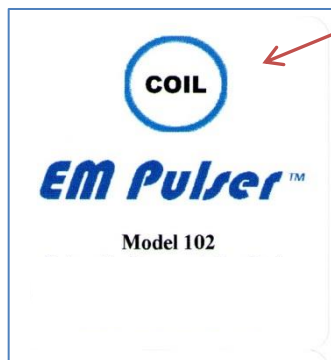


Bioelectromagnetic Healing, explains the scientific reasons for this and cites studies that prove it. PEMFs tend to be at least ten times more effective than steady state (DC) fields (but ceramic magnets can be used too). With that understanding, placement of the unit may be approximate or very specific, depending on the injury or condition being treated.

Note: You may feel tingling, mild aching, or nothing at all during or after use of the EM Pulser. These are not indicators of efficacy or proper functioning of the EM Pulser. Consult your health care provider as to appropriate activities to resume following the use of your EM Pulser. If you do however, feel heat, tingling or even pain after 20 minutes to an hour of use of the EM Pulser or a complimentary ceramic magnet treatment (see below), we have found that means cellular transformations have taken place which are favorable but need time to acclimate to the new changes. Therefore, it is wise to discontinue either treatment (magnet or EM Pulser) and alternate, or simply rest a few hours or a complete day before trying one (“DC” or “AC”) again.

Dr. Gordon was able to use his relatively weak EMPulse in his shirt pocket on a daily basis for hours but the EM Pulser is designed to have a more intense field with more current and a bigger coil as well as the same nanosecond risetime so the recommended dosage below is good to start with.

COIL: Standard usage varies, but Integrity Research Institute recommends **30-45 minute applications** no more than 1-3 times per day to start. **"Aim" the COIL zone (treatment Zone) at the area of discomfort. See image here from the backside of EM Pulser.** The treatment coil is **located right below the COIL**



word in the circle and the pulsating field can penetrate tissue up to 5 inches or about 12 cm with a decreasing intensity with distance, in a direction perpendicular to the backside of the unit. See diagram →

Lightly contact the skin or coverings such as light clothing. Do not use EM Pulser with a pacemaker! In an unhurried manner, move the EM Pulser back and forth across the area of discomfort and if comfortable, leave it in one place with a Velcro strap, ACE bandage, or a stretchable piece of clothing. If you see no

improvement in 3-4 days, consult your healthcare provider.

LEDs: The GREEN LED light will stay on ALL of the time when the switch is in the ON position. The RED LED will turn on when the battery passes a low point of voltage around 6 volts DC but the unit will still produce a significant square wave pulse for at least two to three hours more before the voltage gets too low to be effective.

Complimentary Magnet Treatment: It should be noted that **low intensity, cheap ceramic magnets** of any type (e.g. refrigerator magnets) may be used, at for example an inch apart, in the vicinity of the treatment or trauma zone alternatively with EM Pulser treatments. (Strong neodymium magnets are not recommended). The weak magnets can be sewn between two pieces of cloth for example and are analogous to applying a "DC" magnetic treatment, which is complementary to the "AC" EM Pulser. I personally like using the "self-heating" magnetic therapy tourmaline neck pad anywhere on the body that may ache and need the EM Pulser too (alternate between them every few



hours). One example is shown here that is less than \$10 from Amazon.com. I had hip joint pain

that constricted movement and required lots of hours of nighttime EM Pulser treatment recently.

However, putting this neck pad against my hip on one side of my undershorts during the day and that hip also created internal heat when the trauma was still there. I also used capsicum or camphor cream on the skin after the shower each day as well. Rather than a hip replacement the AC/DC treatment worked to fully restore movement and relieve the chronic pain in less than one month.

For more severe conditions, a few hours of exposure may be helpful at least at first and then try the "DC" field from a ceramic magnet to test the area. We have found that if the permanent magnet(s) make the bodily tissue feel hot within an hour, then a trauma is still present and

needs more treatment and the alternating “AC” EM Pulser and the “DC” magnet(s) are very complimentary and beneficial. It is interesting to experience the “DC” magnet treatment becoming an “AC” magnetic treatment like the EM Pulser when movement of the body is also involved, like walking for example. A permanent magnet may not sometimes create any feeling in the tissue at all until one starts to move around sometimes, which proves this principle.

Tech Details: After a couple of inquiries on **how to tell if the EM Pulser is working**, we recommend that you obtain a small, inexpensive magnetic compass. When placed near the “COIL” area of the backside of the EM Pulser, the compass needle will unmistakably point toward the COIL, proving the strength of the magnetic field being produced. For those interested, the magnetic field averages to about 10 to 15 gauss at the COIL center, from approximately 80 to 100 gauss pulses, each with a rise-time of only a few hundred nanoseconds which would make Dr. Gordon proud.

The power of Pulsed ElectroMagnetic Field (PEMF) energy

Ed. Note: The effects and conditions below were all suggested and provided by Dr. Glen Gordon:

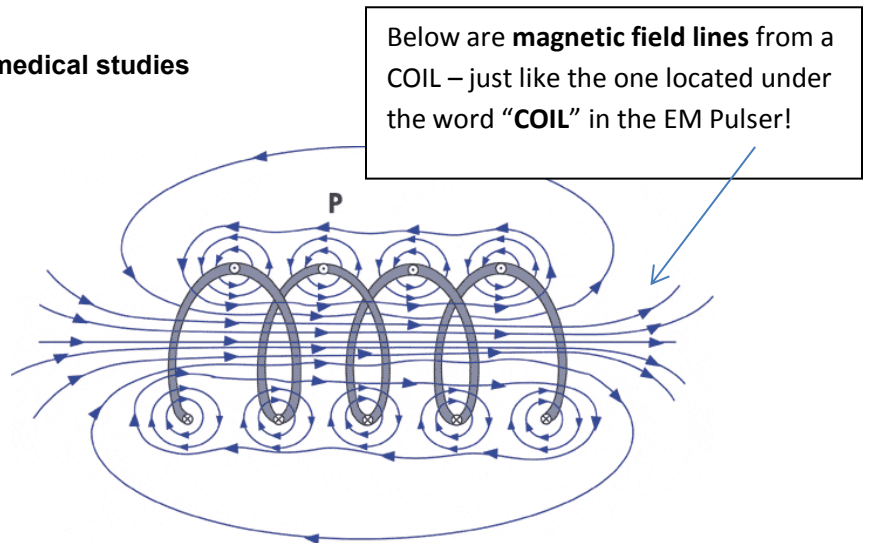
Stops pain and inflammation, promotes healing and wellness.

Conditions to treat with EM Pulser

- Swelling
- Tendonitis
- Cuts/Bruises
- Arthritis
- Neuropathy
- Backache
- Sciatica
- Bites/Stings

Select from this list to review PEMF medical studies for off-label applications:

- COSTOCHONDRITIS
- LOW BACK PAIN
- MUSCLE LOSS
- MUSCULOSKELETAL INJURIES
- NECK PAIN
- NON-UNIONS
- OSTEOARTHRITIS
- OSTEOPOROSIS
- PSEUDOARTHROSIS
- SMALL/LARGE JOINT ARTHRITIS
- TENDONITIS
- WHIPLASH
- BOWEL SURGERY
- ENDOMETRIOSIS
- ERECTILE DYSFUNCTION
- GENERAL SURGERY



- EM Pulser technology is safe and has never had a reported side effect.
- The EM Pulser is a hand held device. Weighs two ounces and can be used at home, in your car, or battery powered.
- EM Pulser is vastly superior to "light" or "static magnets" at a very competitive price.
- EM Pulser heals injury and relieves pain - proven by NASA

Warnings

Contraindications: Not to be used in pregnancy, infancy, or with implanted electronic devices.

DO NOT use in water, moist environments (sauna) or when sweating, especially at night.

Under no circumstances should you or the device be partially or completely immersed in liquid during use or cleaning. It is sufficient to wipe the device with a moist cloth or alcohol wipe between uses. Do not pour alcohol or any other cleaning solutions on the device. While the label may loosen or the print may fade, the above cleaning recommendations will not interfere with the function of the device. The transformer requires no cleaning.

OPTION: An **AC Adapter Transformer is Available** but replacements must meet the exact output characteristics of the IRI AC Adapter as per the manufacturer's label. Do not use ANY other AC adapter transformers with different ratings as they may have different polarity and damage the EM Pulser which will also void the warranty, besides creating the danger of explosion or fire.



Why the EM Pulser is superior to other PEMF devices

Dr. Gordon, MD, was the inventor of the old EMPulse. He was an international Sports Medicine & Rehabilitation expert, and has devoted over 20 years of R&D to PEMF technology. In 1982 Dr. Gordon was the first to propose **nanosecond speed** as critical for effective therapeutic PEMF applications. This has now been

proven by **NASA** in the largest study ever done on PEMF. Why is NASA studying PEMF? Because astronauts cannot heal naturally from injuries once they leave the earth's magnetic field, so they have to take it with them in a medical device. That's how fundamental this technology is to human health.

NASA's four year study defining speed as the critical pulse factor concluded: "square waves with rapid dB/dt (nanosecond speed) can be used for *"growing tissue for transplantation----- restoring tissue after trauma-----and mitigating some neurodegenerative disorders"*.

They found nanosecond technology *"capable of stimulating classes of genes associated with cell growth and restoration in a no way marginal manner"*.

EM Pulser nanosecond technology operates from 1,000 to 1,000,000 times faster than other PEMF devices on the market, and even those used in reported medical studies.

*"When we began research on EMPulse we refined the EMF pulse to nanosecond speed, and healing rates increased dramatically. Believe it or not, this advance was ignored for twenty years. Finally, in 2003, NASA scientists found nanosecond pulses like ours 2.5-4.0 times better than older pulses at restoring tissue after trauma. This is due, among other factors, to nanosecond PEMF's marked ability to **stimulate growth hormone.**"* -- Dr. Glen Gordon

References

Accompanying this instructional User Manual is an article of Dr. Gordon's in his Collected Works from the **Cellular Physiology** journal to help explain the discovery that PEMF can stimulate the HSP70 protein which is a chaperone protein that repairs and protects whenever there is a trauma to tissue (including heat shock). He also designed the old EMPulse to have the fastest rise time so the dB/dt (change of magnetic field per time) could be the most effective in creating the beneficial effects, even within ten to twenty minutes. Furthermore, it stabilizes the free radical equilibrium which we both agreed is a big deal. The EM Pulser also upregulates the growth and restorative genes while it downregulates the destructive or dysregulatory genes to help achieve homeostasis. This effect alone can have a profound effect in any disease.

Testimonials

For several months, my pulse has been about 130 when it should be 90 to 95. The doctors have found no explanation.

Yesterday, I used an ace bandage to strap the EM PULSER to my chest for several hours and I did this again today.

Yesterday, the rate dropped to 113 after treatment and today to 102.

Thank you!

Jonathan

Just to let you know. I put one of the new devices on my knee and am holding it in place with an ace bandage. I was in much pain going up and down stairs and up hill. What I noticed immediately putting it on is I felt like something was holding my leg gently so it could do what it is supposed to do which is heal itself. My knee feels stronger just having the device on it continuously. As I walk up the stairs I am not in as much pain having had it on for only ten minutes so far. It is not placebo because I am being very careful to see what the body is doing and not want it to work so to speak. So I am so happy it is reducing my pain immediately. It feels like a warm protective shield around the injured area.

Thanks
Rozanne

Try the new **OsteoPad** to treat a larger area of your body if you like the EM Pulser – it has the same therapeutic pulse circuit. _____

OSTEOARTHRITIS and CARTILAGE

Pulsed electromagnetic fields influence hyaline cartilage extracellular matrix composition without affecting molecular structure

BY HONGXIANG LIU*, JOAN ABBOTT† AND THE LATE JAMES A. BEE*

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Summary

Pulsed electromagnetic fields (PEMF) influence the extracellular matrix metabolism of a diverse range of skeletal tissues. This study focuses upon the effect of PEMF on the composition and molecular structure of cartilage proteoglycans. Sixteen-day-old embryonic chick sterna were explanted to culture and exposed to a PEMF for 3 h/day for 48 h. PEMF treatment did not affect the DNA content of explants but stimulated elevation of glycosaminoglycan content in the explant and conserved the tissue's histological integrity. The glycosaminoglycans in sterna exposed to PEMF were indistinguishable from those in controls in their composition of chondroitin sulfate resulting from chondroitinase ABC digestion. Specific examination with [³⁵S]-sulfate labels showed that PEMF treatment significantly suppressed both the degradation of pre-existing glycosaminoglycans biosynthetically labeled *in ovo* and the synthesis of new [³⁵S]-sulfated glycosaminoglycans. The average size and aggregating ability of pre-existing and newly synthesized [³⁵S]-sulfated proteoglycans extracted with 4 M guanidinium chloride from PEMF-treated cartilage explants were identical to controls. The chain length and degree of sulfation of [³⁵S]-sulfated glycosaminoglycans also were identical in control and PEMF-treated cultures. PEMF treatment also reduced the amount of both unlabeled glycosaminoglycans and labeled pre-existing and newly synthesized [³⁵S]-sulfated glycosaminoglycans recovered from the nutrient media. [³⁵S]-Sulfated proteoglycans released to the media of both control and PEMF-treated cultures were mostly degradation products although their glycosaminoglycan chain size was unchanged. These results demonstrate that exposure of embryonic chick cartilage explants to PEMF for 3 h/day maintains a balanced proteoglycan composition by down-regulating its turnover without affecting either molecular structure or function.

Key words: Pulsed electromagnetic fields, Cartilage extracellular matrix, Proteoglycan, Glycosaminoglycan.

Introduction

CARTILAGE EXTRACELLULAR MATRIX establishes a highly concentrated gel of proteoglycan immobilized within a dense network of collagen fibrils [1]. Proteoglycans are high molecular weight molecules composed of a core protein to which a large number of negatively charged and extremely hydrophilic glycosaminoglycan chains are attached covalently. Under normal physiological conditions sulfated proteoglycans interact with hyaluronic acid through one end of the protein core to form large multimolecular aggregates [2-4]. The high concentration and extreme hydrophilicity of proteoglycan aggregates create swelling pressure within the extracellular matrix which is constrained by a relatively inextensible collagen

network. The association between proteoglycans and collagens provides articular cartilage with the unique physical properties of reversible compressibility and tensile strength enabling it to both withstand mechanical stress and protect underlying bone [5]. Loss of proteoglycan associated with osteoarthritis results in a disruption of cartilage integrity and an inevitable loss of biomechanical function [6]. Maintenance and/or restoration of a functional extracellular matrix is of significant interest to the repair of damaged cartilage.

Pulsed electromagnetic fields (PEMF) promote fracture healing and are widely applied to the successful clinical treatment of delayed- or non-union fracture in patients [7-12]. Although the biological mechanism of action of electrically induced osteogenesis is unclear, PEMF is generally thought to stimulate endochondral ossification by initiating a series of events in cartilage. Considerable evidence has accumulated indicating that PEMF affects the cytodifferentiation and phenotypic expression of cartilage *in vitro* [13-15] and

Submitted 21 November 1994; accepted 30 August 1995.

This work was supported by grants from Electro-Biology, Inc., Upper Pond Road, Parsippany, NJ 07054-1079, U.S.A.

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Integrity Research Institute's Position Paper on Prostate Alternatives for BPH

Dr. Norm Shealy <https://normshealy.com/> recommends men over 50 should be taking 160 mg of saw palmetto four times a day. There are other formulations which enhance the effect on BPH such as <http://www.lef.org/vitamins-supplements/item01790/PalmettoGuard-Saw-Palmetto-Nettle-Root-Formula-with-Beta-Sitosterol.html?source=search&key=prostate> from Life Extension foundation. However, prescription therapies work very well to reduce prostate size and permit urination flow, such as Proscar and Avodart. www.lef.org has a review article comparing these two drugs in the December 2013 issue of *Life Extension magazine*.

As far as the new PEMF treatment article from 2014 for promoting the Magcell Vetri, we subscribe to Dr. Glen Gordon's discoveries about PEMF, as outlined in the IRI book, *Bioelectromagnetic Healing* and online www.BioenergyDevice.org. Basically it is not the 2,000 gauss field that is doing the work at the ELF pulse rate but more importantly, it is the slope or derivative of the pulse. Dr. Gordon also spoke at our COFE in 2006 and emphasized the "nanosecond risetime" of his NASA-developed EMpulse (see attached).

What we at IRI did, along with a great electronics shop who now manufactures them for us, was to keep the nanosecond risetime, increase the pulse rate to 250 Hz and slightly increase the pulse height to around 70 gauss but at a low 12% duty cycle, so the average magnetic field delivered is only about 7 gauss as a result. If some still feel that more is better, our frequency is about 10 times than the Magcell Vetri so we deliver 10 times the impact within the same amount of time. Also, the treatment time is usually about fifteen (15) minutes to thirty (30) minutes but can be much longer if needed, as the heat shock proteins (HSP 70) are drawn to the site within ten (10) minutes according to Gordon.

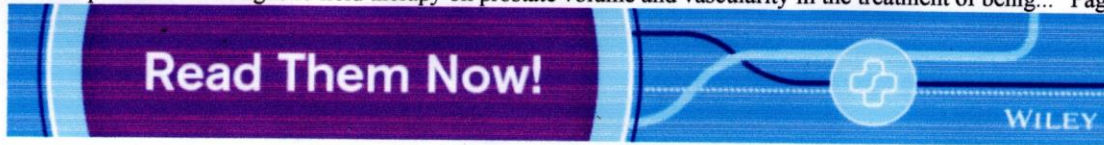
We also have two great rechargeable batteries (and a free charger) with the EM Pulser along with a 30 day money back guarantee. The reports have been coming in saying that this unit is as good or better than the older EMpulse. Visit www.BioenergyDevice.org for more info and a full page of testimonials. Some clients also use our Premier Jr. on the **prostate perineum** area as well with good results (I have as well and obtained relief within minutes that lasts for days).

In researching BPH treatments, we have learned of a 2014 dog study in which PEMF successfully **reduced prostate size by 57% in 3 weeks!** Clearly, this is the way to go before trying surgery. (<http://www.parsemusfoundation.org/new-treatment-for-enlarged-prostate/>) . Another overseas model was used in Magcell Vetri study (<http://www.vetri-line.de/index.php?id=414>, exhibiting a magnetic field of "max 200 mT" which is 2000 gauss but cannot possess a nanosecond rise time with such a high intensity field. This is the same intensity field used in a 2010 PEMF leukemia cell study which caused increased leukemia cell death after a 12-hour stimulation (J. App. Phys., 107, 09B306, 2010). IRI recommends Dr. Gordon's philosophy of a weaker intensity but faster risetime for maximum efficacy to reduce inflammation and stimulate HSP 70, the active agent for healing.

December, 2015

Thomas F. Valone, PhD, PE

None of these statements have been evaluated by the FDA. This product is not intended to diagnose, treat, or cure disease.



Original Article

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Effect of pulsed electromagnetic field therapy on prostate volume and vascularity in the treatment of benign prostatic hyperplasia: A pilot study in a canine model

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2. Giulio Aiudi¹,
3. Fabio Silvestre¹,
4. Elaine Lissner² and
5. Giovanni Michele Lacalandra¹

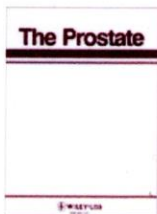
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Issue



The Prostate

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(http://www.altmetric.com/details.php?domain=onlinelibrary.wiley.com&citation_id=2458790)

Additional Information
<http://onlinelibrary.wiley.com/doi/10.1002/pros.22829/abstract>

9/22/2015

Visit <http://onlinelibrary.wiley.com/doi/10.1002/pros.22829/abstract> for PDF of article.

EM-Pulse, TRILOGY the world's premier pulsed electromagnetic treatment



Pulsed Electromagnetic Field (PEMF) technology has been found superior to drugs in the treatment of many conditions as diverse as arthritis, fractures, low back pain, carpal tunnel syndrome, and others. Independent studies funded by NASA demonstrated the superiority of energy pulses identical to those in EM Pulse over all other devices in a four year study. Coupled with our solid state circuitry, ease of handling, and 23 years research experience, we are confident EM Pulse is the best you can buy. We extend a 30 day money back guarantee, no questions asked, if you are not satisfied.

DIRECTIONS-Connect the device to the power adapter; the red lights will illuminate. Place the lights in contact with the skin or light clothing overlying the area to be treated. Move EM Pulse over the entire area of tenderness concentrating on the most painful areas. You can stop for several minutes over the most painful areas, but continue covering the area after 5-8 minutes. After 30-60 minutes of stopping and movement you can disconnect EM Pulse and set it aside. Treat as often, or as long as you wish; our recommendation is 60 minutes daily for 4-6 days. In our clinical studies we found 4 out of 5 people benefited significantly when used in that manner.

EMpulse technology has been reported useful in many different illness and injury conditions.

- | | |
|--------------------------|-----------------------------|
| WHIPLASH | MIGRAINE HEADACHES |
| NECK PAIN | TENSION HEADACHES |
| BURSITIS | CARPAL TUNNEL SYNDROME |
| TENDONITIS | SMALL JOINT ARTHRITIS |
| NEURITIS | LARGE JOINT ARTHRITIS |
| ENDOMETRIOSIS | LOW BACK PAIN |
| SINUSITIS | GENERAL INFLAMMATION |
| ESOPHAGITIS | PREMENSTRUAL PAIN |
| COLITIS | POSTPARTUM PAIN |
| SOLIATICA | POSTOPERATIVE WOUND HEALING |
| DIABETIC ULCERS | POSTOPERATIVE PAIN |
| OSTEOARTHRITIS | PLANTAR FASCITIS |
| COSTOCHONDRITIS | ACHILLES TENDONITIS |
| PROSTATITIS | TENNIS ELBOW |
| TOOTH EXTRACTIONS | SPRAIN |
| BREAST ABSCESS PAIN | STROKE |
| OPEN WOUNDS | |
| HEART ATTACKS | |
| HELVETISGENERATION | |
| INFECTED WOUNDS | |
| NON-FRIGIONS | |
| PSEUDOPARTHROSIS | |
| MUSCULOSKELETAL INJURIES | |
| IRREGULAR BOWEL SYNDROME | |
| DELAYED GASTRIC EMPTYING | |
| URINARY INCONTINENCE | |

EMpulse By


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TREAT


- Arthritis • Bruises
- Swelling • Sprains
- Cuts • Trauma

A New Anti-Oxidant Technology



EMpulse and EM Pulser History

*A New Healing Paradigm:
Pulsed Electromagnetic Fields*




SLIDESHOW inspired by inventor: **GLEN GORDON, M.D.**

The Problem

Dissatisfaction with Drugs & Surgery

- **Crisis in Health Care**
 - Unsafe drugs
...Vioxx, Bextra, Celebrex, Crestor, Viagra...
 - Unproven surgeries, outcomes
 - 100,000 deaths and 2.2 million nonfatal events from ADR in the US in 1994
 - 30% of patients do not benefit from medicines ¹



- ¹ JAMA 1998 279:1200

The Solution: Pulsed Electromagnetic Fields

Injury & Disease = Free Radical Event
PEMF Increases Neutralization by Antioxidants
Increases antioxidant healing activity up to a hundredfold



PEMF = ALIGNMENT = HEALING

Example: fracture healing in 10-12 days instead of six weeks

History: Dr. Gordon invents the EMpulse for his own congestive heart condition, dreams of a "mat"

- **Stops inflammation faster than any drug or technology**
- **Cost effective healing technology**
- **Synergistic with drug therapy**
- **Spinoff to pad style product**

Bone Knitting OsteoPad™

Example: Osteoporosis - Fosamax at \$6000 annually -or- the new OsteoPad, based on the EMpulse technology, which **Stimulates Calcium Transport electromagnetically to Restore Bone Density**


- 1 out of 2 people will develop osteoporosis*
- OsteoPad™ provides a patented EM signal proven to stimulate calcium transport across bone cell membrane, just like weight bearing exercise creates piezoelectric signals
- Heals bone fractures in 1/2 of the time
- Strengthens bones of elderly while they sleep, reversing osteopenia and osteoporosis
- In development by IRI in cooperation with Dr. Manning who patented an early version

*Time, October 25, 2004, p. 101

Free Radicals and Antioxidants
 are **paramagnetic** and drawn to and oriented by a magnetic field (compass effect).

Pulsed Magnetic Fields are a catalyst to increase antioxidant efficacy 100-fold

Inflammation vs. Healing
Must stop one to start the other



Must be able to upregulate tissue and tissue restoration genes

Testimonial

"I tore a hamstring so badly I thought the Olympics were history before they started. We treated several days, two or three times per day, results were spectacular. I'd never seen a hamstring injury recover with such speed. We treated several days, two or three times per day. I'd never seen a hamstring injury recover with such speed."

Calvin Smith - Former **World Record Holder** & Former Olympic Gold Medalist



Note: The FDA reviewed and approved the original EMPulse

Excerpt of FDA Approval Letter to Dr. Gordon for the original EMPulse



Glen A. Gordon, M.D.
EM PROBE, Inc.
1501 Old Gardiner Road
Sequim, WA 98282

Re: K024361
Trade/Device Name: EM-PROBE
Regulation Number: 21 CFR 890.5500
Regulation Name: Infrared lamp
Regulatory Class: II
Product Code: ILY
Dated: June 30, 2003
Received: July 14, 2003

Dear Dr. Gordon:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

NASA Findings on PEMF

- *NANOSECOND Speed = 2-4 times healing power*
- *PEMF upregulates approx. 150 repair genes*
- *Transforming growth factor-1 - bone*
- *Vascular endothelial growth factor (VEGF) - vessels*
- *Increases mitochondria 300-400%*
- -----
- ***Antioxidant healing activity up to a hundredfold***

NASA's Conclusion*

"Nanosecond speed is up to 4.0 times as effective as DC, sine wave, and millisecond technology [all of] which was found to be little better than placebo"

* "Physiological and Molecular Genetic Effects of Time-Varying Electromagnetic Fields on Human Neuronal Cells", NASA Tech. Paper, TP-2003-212054, 9/1/2003

EM Pulser Has Nanosecond Speed

Pulsed Electromagnetic Fields - interesting...

- *Used internationally for 150 years*
- *Approved for fractures in US (1979)*
- *Marginally effective! Why? Millisecond speed*

Nanosecond Pulsed Electromagnetic Fields are revolutionary!

- *NASA 4-year study- nanosecond speed >4.0 times better at restoring tissues following injury or trauma.*
- **EM Pulser** is the only **NANOSECOND** PEMF device

Scientific Scrutiny

- *2000-3000 PEMF articles in National Library of Medicine*
- *Largest study ever by NASA*
- *DOD use in Iraq and acute trauma study*
- *FDA approved non-unions since 1979*
- *W.H.O. reviewed worldwide and found "no adverse side effects"*

Dr. Gordon's Spectrum of Use

Inflammation/Pain

- Bites, stings, trauma
- Arthritis, muscle injury
- Neuritis, neuropathy
- Carpal tunnel
- Back Pain
- Pain Relief
- Tissue healing
- Menses and childbirth

Tissue Restoration

- Nerve repair
- Fracture healing
- Prosthesis stabilization
- Myocardial ischemia, congestive heart failure
- Cerebral ischemia, stroke
- Spinal Cord Injury

Testimonials for both models

"First time I used it on my knee I was sold.

Twenty minutes, and the pain I usually get with a tough day was gone. I use it whenever needed."

Norris J. – using the EMPulse →



"You cannot imagine how pleased we are with the relief we received from the unit. It is definitely one of the best purchases we've ever made. Thank you for making this technology available and affordable."

Michelle M. – using the new EM Pulsar →



EM Pulsar Specifications

- Lightweight 5 oz.
- Portable – 1" x 2.5" x 5"
- Rechargeable Battery – Long Lasting – option AC adapter
- 30 day money back guarantee
- 1 year manufacturers warranty
- Easy to use
- Minimum application:
30 min, 2 times/day
move slowly back and forth over painful area
- May also be secured in place with a scarf or towel or under clothing



Testimonials

"My daughter used EMPulse many times a day following ACL replacement surgery. It reduced her pain level – in two days she no longer needed pain meds. The swelling was VERY minimal, I attribute this directly to the use of EMPulse. At approx. 11 weeks out her PT said this was by far the fastest he had ever seen anyone recover from this type of surgery." – Virginia L



"Just to let you know. I put one of the new devices on my knee and am holding it in place with an ace bandage. I was in much pain going up and down stairs and up hill. What I noticed immediately putting it on is I felt like something was holding my leg gently so it could do what it is supposed to do which is heal itself. My knee feels stronger just having the device on it continuously. As I walk up the stairs I am not in as much pain having had it on for only ten minutes so far. It is not placebo because I am being very careful to see what the body is doing and not want it to work so to speak. So I am so happy it is reducing my pain immediately. It feels like a warm protective shield around the injured area."

-- Thanks, Rozanne

Personal Instructions from Glen Gordon M.D.

Presented to an IRI conference audience
Explains the benefits of pulsed EMF therapy

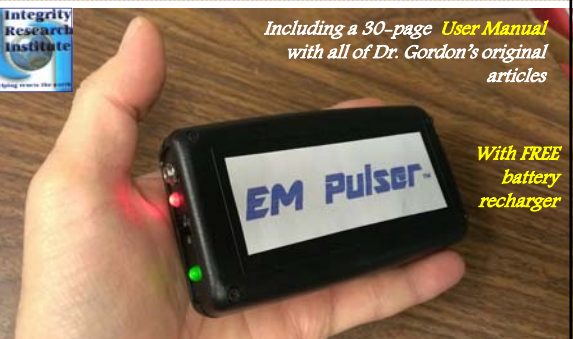


FREE copy with every EM Pulsar order



EM Pulsar – New and Improved Version of Dr. Gordon's

Including a 30-page User Manual with all of Dr. Gordon's original articles



With FREE battery recharger

Rechargeable Internal Battery, More Powerful Pulse, Faster Pulse Rate, Bigger Coil, but still with the SAME Nanosecond Risettime!

EMpulse Testimonials



EMpulse technology is pure energy, doesn't get absorbed by the skin, and is able to heal and relieve pain faster than drugs

without the side effects. EMpulse energy helps your body's antioxidants to restore health whenever dangerous free radicals threaten you with pain, illness, or expanding injury. Regardless of how deep it is, STOP it FAST with EMpulse.

Dr. S. DMV — "After using narcotics and Celebrex for back injury and knee pain, EMpulse changed my life."

C.S., World Record 100 Meters — "EMpulse allowed me to put the nitro to my hamstring injury in 10 days. Unheard of with standard treatment."

S.W., Business Executive — "EMpulse played a major role in my recovery from chronic progressive MS."

N.A., Office Manager — "I couldn't touch my 'tennis' elbow which only complicated my carpal tunnel. Thanks to your EMpulse, both are 80-90% better, and no medication. I'm a great fan of your wonderful device because I won't need the promised surgery."

G.R., Attorney — "I can't think of anything I don't use it on: me, my dogs, and any of my friends that get injured or bruised. Used EMpulse since 1984, never been sorry."

W.S., Insurance Executive — "After 10 years battling acute back pain, I couldn't believe the results I achieved after four treatments."

About Dr. Gordon

Dr. Glen Gordon, MD is the founder of EM-PROBE Technologies, Inc., an organization dedicated to bringing PEMF technology into the mainstream for American consumers. He graduated from the University of Dayton and Creighton University. After an internship, he served in the US Navy and the Public Health Service, the latter at the National Institutes of Health as Assistant to the Director, Department of Clinical Pathology where he assisted in the implementation of the largest computer application of laboratory medicine in the world (1966).

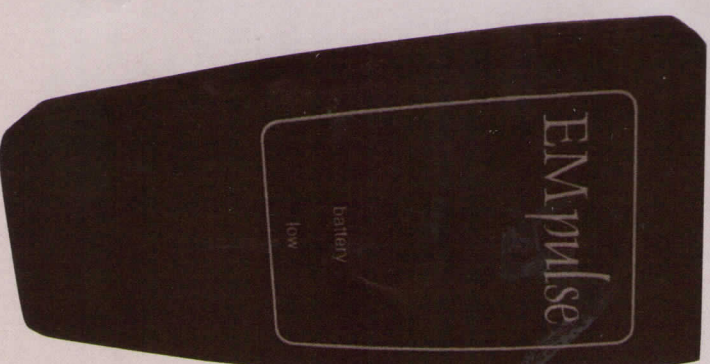
Dr. Gordon entered the field of sports medicine in 1979; the following year, he began conducting research on PEMF devices. His success in the field of sports medicine resulted in a speaking tour throughout the US and Canada. (1984-1986) He has three original publications on free radical and pulsed electromagnetic field interactions in musculoskeletal injury.

Dr. Gordon's research led to the presentation of his findings at the 2nd World Congress in Sports Sciences prior to the Olympic Games in Barcelona, Spain. (1992) The following year he chaired a symposium on his research at the annual meeting of the American College of Sports Medicine. In 1994, he was inducted as a Fellow of the American College of Sports Medicine.

In addition to his research and clinical practice, Dr. Gordon joined several humanitarian teams in Central America, and personally arranged the collection, transport, and distribution of millions of dollars in medical equipment and supplies to countries in that region. He is deeply indebted to the patients and colleagues throughout the world who have made his career so rewarding.

EM-PROBE Technologies
Kingston, WA
360-297-8736
888-697-9996
www.em-probe.com

EM PROBE Technologies



*Exploring the limits of
electromagnetic
healing*

Why should I purchase EMpulse for myself or my family?

EMpulse technology is reported helpful in illness and injury including soft tissue trauma, fractures, arthritis, heart disease, stroke, gynecologic pain including PMS, neurodegenerative disorders, MS, migraine, skin ulcers, postop and traumatic wound healing, and virtually any inflammatory problem of stomach, muscles, bursa, tendons, or joints. Call for questions regarding use in a condition.

-EMpulse technology is safe and has never had a reported side effect, ever!

-EMpulse weighs two ounces and can be used at home, in your car, or battery powered.

-EMpulse is affordable — a technology vastly superior to “light” or “static magnets” at a very competitive price.

-Magnets must be pulsed and light doesn't get through the skin layer.

-EMpulse passes completely through your body to heal deep injury and relieve pain and, unlike Xray, it causes no damage or after effects.

What if EMpulse doesn't work for me?

If, within 30 days of purchase, you are not satisfied with your EMpulse results, return it to your point of purchase and receive a refund on your purchase price. Proof of purchase is required.

We encourage professional or lay inquirers interested in speakers on this important technology; an integral part of “subtle energy” medicine within alternative healthcare.

Your EMpulse Warranty

EMpulse is not intended to diagnose, cure, treat, or prevent specific diseases, injury, or illness and no claims are made. EM-PROBE Technology's liability is limited to the return of the purchase price upon return to point of purchase, provided a claim is made within 30 days of purchase. EMpulse carries a 2 year warranty against manufacturer's defects with normal use (to be determined at manufacturer's discretion).

“Scientists studying PEMF devices report no side effects when used in common musculoskeletal conditions such as arthritis. Contrast that to drugs commonly used to treat such problems”

Make EMpulse a family tradition

We use EMpulse on all family members whether a smashed finger, cuts, stings, bites or any “ouchy”. You won't believe the pain relief and healing-MUCH faster than aspirin or pain relievers- 10-20 minutes and no more pain, no more redness, no more swelling. If it hurts, EMpulse will beat anything you can find, hands down, AND EMpulse is safe (do not use over or near cardiac pacemakers).

Tell your friends about EMpulse. Keep it at the side of your favorite chair or take it with you when driving or hiking. You can't beat it for speed of relief when you have pain.



Care of your EMpulse

Under no circumstances should you or the device be partially or completely immersed in liquid during use or cleaning. It is sufficient to wipe the device with a moist cloth or alcohol wipe between uses. Do not pour alcohol or any other cleaning solution(s) on the device. While the label may loosen or the print may fade, the above cleaning recommendations will not interfere with the function of the device. The transformer requires no cleaning. It can be replaced by contacting EM-PROBE INC, at 1-888-697-9996 or by contacting our website, www.em-probe.com. IMPORTANT: Transformer replacements MUST meet the exact output characteristics of the original as seen on the transformer label. DO NOT ACCEPT OR USE OTHER OUTPUTS

Recommended USE of the EMpulse

Standard usage varies, but EM-PROBE Technologies recommends 30 – 45 minute applications 1 – 3 times per day for 4 – 8 days. “Aim” the red light (Treatment Zone) at the area of discomfort. Lightly contact the skin or coverings such as light clothing or clear plastic wrap. Do not apply EMpulse to eyes, head, internal organs, nor around pacemakers or other medical devices. For consistency, you may wish to outline the area of discomfort. In an unhurried manner, move the EMpulse back and forth across the area of discomfort. If you see no improvement in 3-4 days, consult your healthcare provider. For more detailed use, see user guide provided with your EMpulse.



NOTE: You may feel tingling, mild aching, or nothing at all during or after use of EMpulse. These are not indicators of efficacy or proper functioning of the EMpulse. Consult your health care provider as to appropriate activities to resume following the use of your EMpulse.