BIOELECTROMAGNETIC HEALING, Tesla, and PEMF Devices

Thomas Valone, PhD, PE

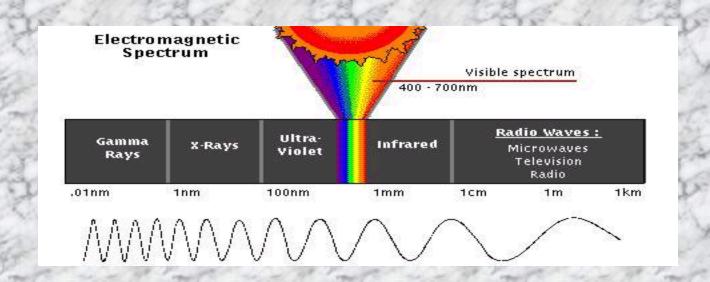
Integrity Research Institute

www.Integrity-Research.org

No diagnosis or cure is implied by this presentation. None of these statements have been evaluated by the FDA. 7/31/2025

Bioelectromagnetics (BEMs)

- The study of the effects of electromagnetic fields on biological systems, in particular, human beings
- Includes electrostatic fields, sine wave (AC), and pulsed electromagnetic fields (PEMFs)



Today's BEMs Presentation

- Basics of EMF Effect on Humans
- Pulsed EMFs (PEMFs) and Products
- Tesla and High Voltage Effects
- Historical Tesla Coil Devices
- Modern High Voltage (HV) Products



Electrons are Antioxidants

FREE RADICALS STEAL ELECTRONS

creating more free radical DAMAGE in a chain reaction (10,000 times) – buy a shower filter for chlorine in city water – powerful free radical

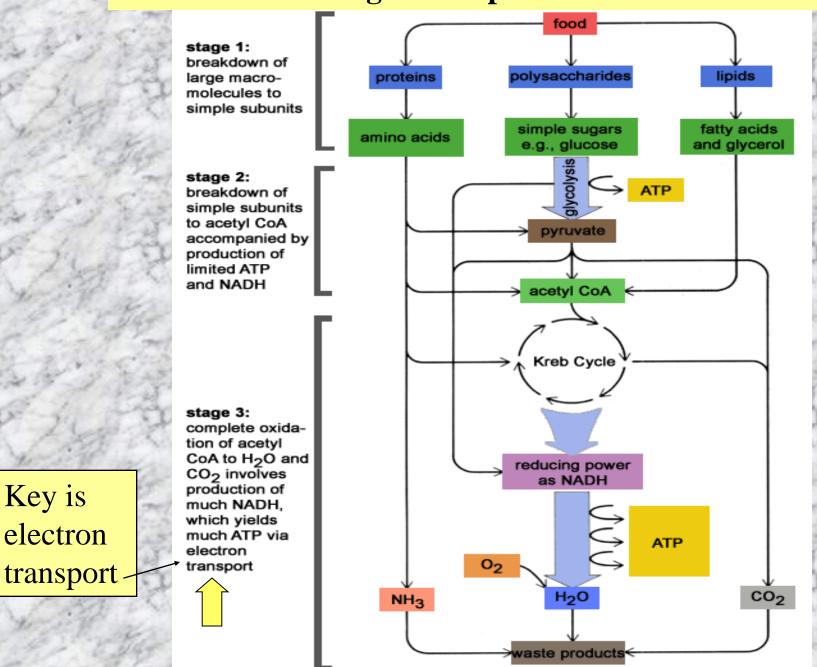
Damaged mitochondrial DNA causes aging

ANTIOXIDANTS STOP FREE RADICALS WITH ELECTRONS

References

- "Oxidative damage causes aging" Life Enhancement, Oct. 2004
- "Dying before their time: studies of prematurely old mice hint that DNA mutations underlie aging." *Science News*, July 10, 2004, p. 26
- "Mice and mitochondria" Martin, Nature, 2004, V. 429, p. 357,417

Biological Respiration Overview



Key is

Electromagnetic Fields (EMFs)

- Created by oscillating electrons or magnetic fields
- EMFs usually have E (electric field) and H (magnetic field) perpendicular to each other
- Resultant traveling wave may be continuous or pulsed on and off
- Excites vibrational changes and transfers energy at speed of light



Magnetic Pulses Regenerate

- Induces expression of HSP 70*
- Quenches inflammation and trauma
- Stabilizes free radical chemistry
- Stimulates the calcium channel transport
- Upregulates growth and restorative genes
- Downregulates dysregulatory genes
- Fast rise time of pulse is the key (dB/dt)

Dr. Glen Gordon is heard here from his DVD, "Speaking of your Injury" on magnetic pulse technology applications and HSP 70



^{* &}quot;Heat Shock Protein and PEMF", Goodman, Reba. Columbia Univ.

studies
tat save
amaged
ruction.
tecies of
levels of
ithstand
tran ant
example,
its body

Animals with higher heat-shock protein levels can thrive in triple-digit temperatures.

the heat-shock response could be augmented in humans.

New asthma treatments could become

to perfect the therapy.

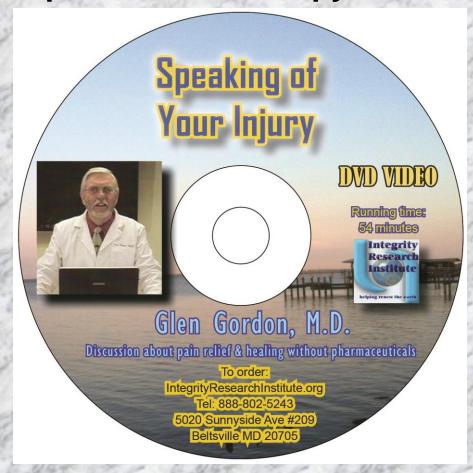
In a warmer, more humid, an crowded world, people will also co contact with pathogens more fre Scientists are working on ways to more quickly to pandemics. Vac causes the body to create an against the invader, but complet nity takes several weeks. Even exotic and unfamiliar virus, a qui more foolproof method could be people lab-produced antibodies would take the antibodies for neous protection if a pandemic b says Antonio Lanzavecchia, an in gist at the Institute for Res Biomedicine in Switzerland. A scientists know which antihodu;

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 Pulser order



The Solution: Pulsed Electromagnetic Fields

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



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

Inflammation vs. Healing Must stop one to start the other



Must be able to upregulate tissue and tissue restoration genes

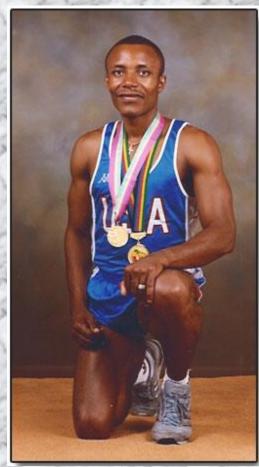
Testimonial

"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.

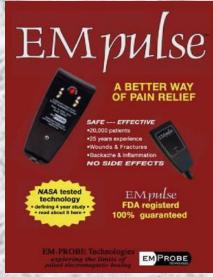
We treated several days, two or three times per day. I'd never seen a hamstring injury recover with such speed."

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



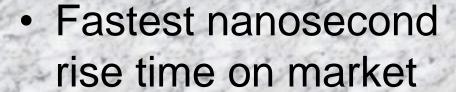
Note: The FDA reviewed and approved the original EMpulse

Dr. Glen Gordon's EMpulse



← Old model

New Model
Developed
By Dr. Valone for
Integrity Research



- 7.8 Hz pulse rate
- Anti-inflammatory
- Stimulates HSP 70 in just 10 min.
- Upregulates restorative genes

Visit BioEnergyDevice.org



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

OPEN Cardioprotection from stress conditions by weak magnetic fields in the Schumann Resonance band

ed: 14 September 2018 ed: 19 November 2018

ed online: 07 February 2019

G. Elhalel¹, C. Price¹, D. Fixler⁰ & A. Shainberg³

The Schumann Resonances (ScR) are Extremely Low Frequency (ELF) electromagnetic resonances in the Earth-ionosphere cavity excited by global lightning discharges. This natural electromagnetic noise has likely existed on the Earth ever since the Earth had an atmosphere and an ionosphere, hence surrounding us throughout our evolutionary history. The purpose of this study was to examine the influence of extremely weak magnetic fields in the ScR first mode frequency range on the spontaneous contractions, calcium transients and Creatine Kinase (CK) release of rat cardiac cell cultures. We show that applying 7.8 Hz, 90 nT magnetic fields (MF) causes a gradual decrease in the spontaneous calcium transients' amplitude, reaching 28% of the initial amplitude after 40 minutes of MF application, and accompanied with a gradual decrease in the calcium transients' rise time. The mechanical spontaneous contractions cease after the ScR fields have been applied for more than 30 minutes, when the calcium transient's amplitude reached -60% of its initial value. The influence of the ScR MF was reversible, independent of the field magnitude in the range 20 pT-100 nT, and independent of the external DC magnetic field. However, the effect is frequency dependent; the described changes occurred only in the 7.6-8 Hz range. In addition, applying 7.8 Hz, 90 nT MF for 1.5 hours, reduced the amount of CK released to the buffer, during normal conditions, hypoxic conditions and oxidative stress induced by 80 µM H,O,. We show that the ScR field induced reduction in CK release is associated with a stress response process and has a protective character.

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) improves blood vessels
- Increases mitochondria 300-400%
- ------
- Antioxidant healing activity up 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

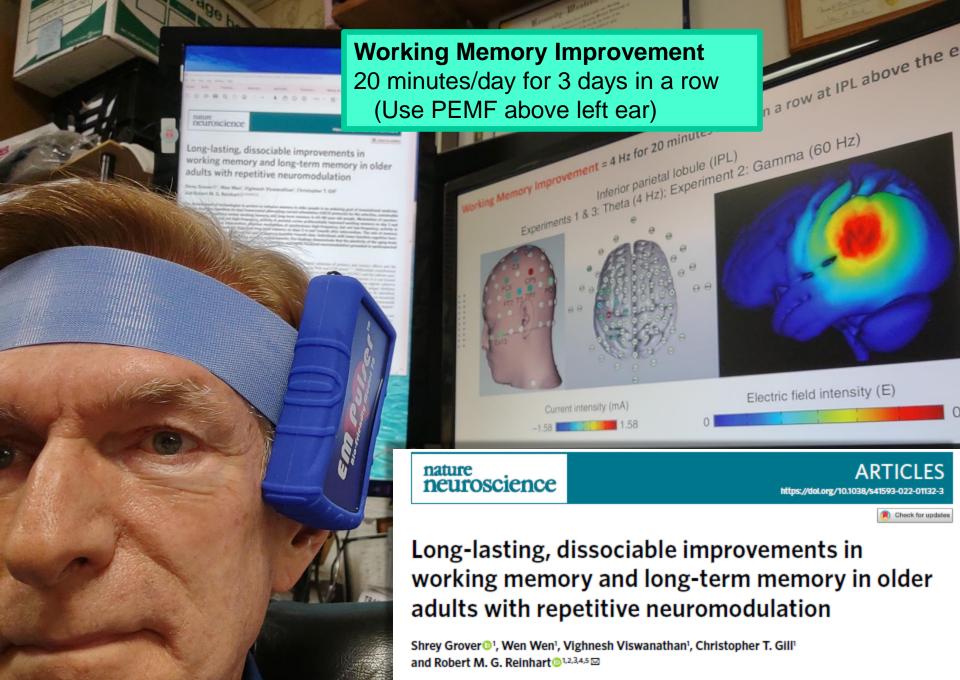
Testimonials

"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

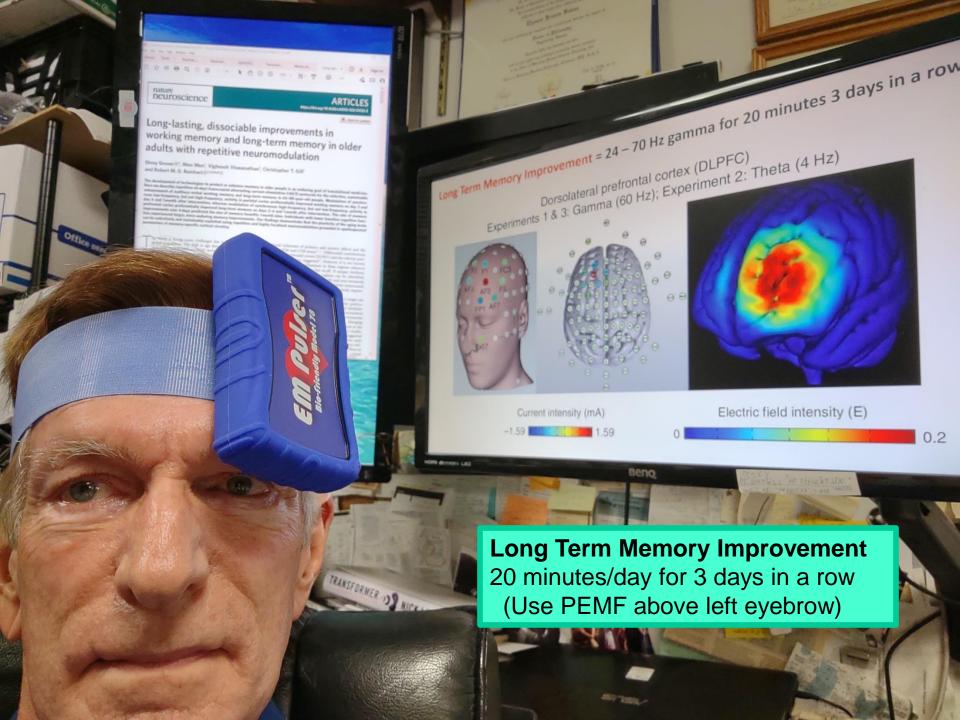


EM Pulser user:

"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."



The development of technologies to protect or enhance memory in older people is an enduring goal of translational medicine. Here we describe repetitive (4-day) transcranial alternating current stimulation (tACS) protocols for the selective, sustainable enhancement of auditory-verbal working memory and long-term memory in 65-88-year-old people. Modulation of synchro-



Rationale for Healing with PEMFs*

- HF EMF penetrate several centimeters into body
- Diseased cells have low TMP**
- Low TMP = Na-K pump, ATP impairment and increased bacterial and viral reproduction
- Membranes rectify AC; Proteins = Rectifier
- External HV EMFs can stimulate the cell's TMP
- Electroporation transmigrates ions & nutrients
- Boosting TMP with HV electrons helps restore the immune system
- Noticeable energy boost from PEMFs in diseased patients

Magnetic Pulses = Induced PEMFs

A New Treatment for Arthritis: Vagus-Nerve

Stimulation > Studies will soon show whether electroceuticals outperform pharmaceuticals

26 DEC 2022 | 5 MIN READ

Inducing only 1 mA

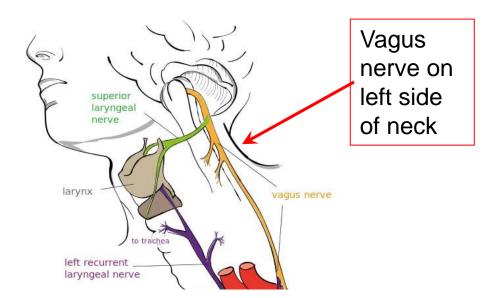
VIDEO BI

BIOMEDICAL

Vagus Nerve Stimulation Fights Rheumatoid

Arthritis > Surgically implanted bioelectronic devices may one day treat inflammatory conditions with electrical nerve stimulation

25 JUL 2016 | 1 MIN READ



Vagus nerve stimulation inhibits cytokine production and attenuates disease severity in rheumatoid arthritis

Frieda A. Koopman^a, Sangeeta S. Chavan^b, Sanda Miljko^c, Simeon Grazio^d, Sekib Sokolovic^e, P. Richard Schuurman^f, Ashesh D. Mehta^g, Yaakov A. Levine^h, Michael Faltys^h, Ralph Zitnik^h, Kevin J. Tracey^b, and Paul P. Tak^{a,1,2,3,4}

^aAmsterdam Rheumatology and Immunology Center, Department of Clinic Amsterdam, 1105 AZ Amsterdam, The Netherlands; ^bLaboratory of Biomes ^cUniversity Clinical Hospital, Mostar 88000, Bosnia and Herzegovina; ^dClinic University Clinical Center, Sarajevo 71000, Bosnia and Herzegovina; ^fDepartment of Neurosurgery, Hofs Corporation, Valencia, CA91355

Edited by Ruslan Medzhitov, Yale University School of Medicine, New Hav

Rheumatoid arthritis (RA) is a heterogeneous, prevalent, chroni autoimmune disease characterized by painful swollen joints an significant disabilities. Symptomatic relief can be achieved in up to 50% of patients using biological agents that inhibit tumor necrosi factor (TNF) or other mechanisms of action, but there are no univer-

FEATURE BIOMEDICAL

A New Treatment for Arthritis: Vagus-Nerve

Stimulation > Studies will soon show whether electroceuticals outperform pharmaceuticals

26 DEC 2022 | 5 MIN READ

PNAS, July 19, 2016, Vol. 113, N. 29, 8284-8289

Spectrum.IEEE.org

Correspondence

Restoring consciousness with vagus nerve stimulation

Martina Corazzol^{1,2,4}, Guillaume Lio^{1,2,4}, Arthur Lefevre^{1,2}, Gianluca Deiana^{1,2}, Laurence Tell³, Nathalie André-Obadia³, Pierre Bourdillon³, Marc Guenot^{2,3}, Michel Desmurget^{1,2}, Jacques Luauté^{2,3,4}, and Angela Sirigu^{1,2,4,*}

and afferents distributed throughout the central nervous system, either

mon of the vague brain the country the cou

NEWS | BIOMEDICAL

Battling Crohn's Disease with Vagus Nerve

Stimulation > A woman debilitated from Crohn's disease tells how vagus nerve stimulation changed her life

14 JUN 2018 | 5 MIN READ

arousal, alertness and the fight-or-flight response [7].

incre

thala

[6].

in the

to m

in th

nora

"Medicinal EMFs" by J. Raloff

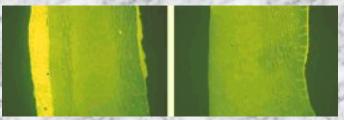
- Science News 11/13/99 V. 156, N. 13, p.316 online at www.sciencenews.org
- OrthoLogic, Tempe AZ makes bone stimulator
- Dr. Sisken-U of Kentucky EMFs accelerate nerve recovery

Exogen, Piscataway NJ vibrates 8 min/day, platform for those at risk for **osteoporosis**





Healthy EMF treated No ovariesJ. Kinney, Law. Livermore Nat. Lab



Yellow shows new growth in wing bones of live turkeys with coil EMFs vs. control on right K. McLeod, Creighton U Sch of Med

"High rising and falling slew rates" **PEMF** stimulates new cartilage growth



Health Medicine And Biotechnology

Noninvasive Therapy for Cartilage Regeneration (MSC-TOPS-96)

Magnetotherapy can restore damaged joints

Ask a Ouestion

Apply to License

(12) United States Patent Goodwin et al.

- (54) MODIFYING THE GENETIC REGULATION OF BONE AND CARTILAGE CELLS AND ASSOCIATED TISSUE BY EMF STIMULATION FIELDS AND USES THEREOF
- Inventors: Thomas J. Goodwin, Houston, TX (US); Linda C. Shackelford, Webster, TX (US)
- Assignee: The United States of America as represented by the Administrator of the National Aeronautics and Space Administration, Washington, DC (US)

(10) Patent No.:

US 8,795,147 B1

(45) Date of Patent:

Aug. 5, 2014

7,179,217	B2	2/2007	Goodwin et al.
7,456,019	B2	11/2008	Goodwin et al.
2006/0229487	A1*	10/2006	Goodwin et al 600/1
2007/0105769	A1*	5/2007	Simon 514/1
2008/0138415	A1*	6/2008	Hussain et al 424/43
2009/0234417	A1*	9/2009	Pastena et al 607/4
2011/0105959	A1*	5/2011	O'Connor 601

OTHER PUBLICATIONS

Au et al in "Interactive effects of surface topography and pulsatile electrical field stimulation on orientation and elongation of fibroblasts and cardiomyocytes" (Biomaterials: 2007, vol. 28, No. 29, pp.



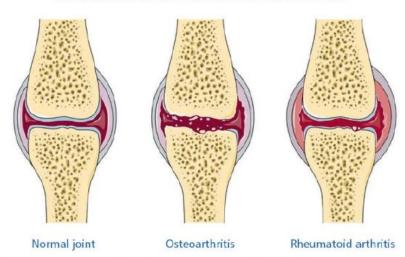
NOVEMBER 1, 2022 | MEDICAL [/TB/TOPICS/HEALTH-MEDICINE-BIOTECHNOLOGY]

Noninvasive Therapy for Cartilage Regeneration

A device that can alleviate cartilage degradation in synovial joints by promoting the growth of new cartilage.

Johnson Space Center, Houston, TX

Osteoarthritis and rheumatoid arthritis



A comparison of healthy and inflamed synovial joints. (Image: NASA)

Innovators at NASA Johnson Space Center researching time-variance magnetic field (TVMF) therapies have developed a pulsed electromagnetic field (PEMF) device that can alleviate cartilage degradation in synovial joints by promoting the growth of new cartilage.

"Frequencies were generally low...from 6 Hz - 500 Hz"

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

Example: Osteoporosis -Fosamax at \$6000 annually -orthe new **OsteoPad**, based on Original EMpulse design which

Stimulates Calcium Transport electromagnetically to

Restore Bone & Joint Density

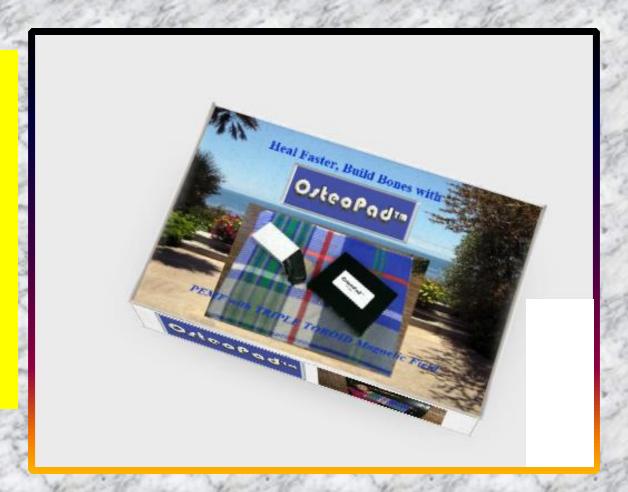


- 1 out of 2 people will develop osteoporosis*
- 20 million Americans have osteoarthritis
- OsteoPadTM provides a patented EM signal proven to stimulate calcium transport across bone and cartilage cell membrane, just like weight bearing exercise, creates piezoelectric signals
- Heals bone fractures in ½ of the time
- Strengthens bones and cartilage *while you sleep*, reversing osteoarthritis, osteopenia, osteoporosis
- Fulfilling the patented PEMF work of Drs. Robert Becker, Andrew Bassett and Arthur Pilla
 *Time, October 25, 2004, p. 101

OsteoPad

Designed to Restore Cartilage & Bone

Three
models:
OsteoPad
Original
14" x 20",
OsteoPad
MiniMat
10" x 36"
and
OsteoPad
MaxiMat
14" x 60"



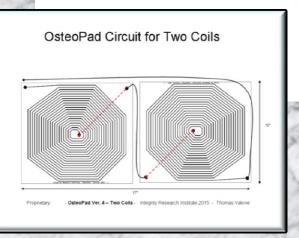
OsteoPad MaxiMat is 5 feet long and about 14" wide

OsteoPad Pairs of Coils Make a DoubleToroidTM

Spiral Toroid Design

means better magnetic field penetration

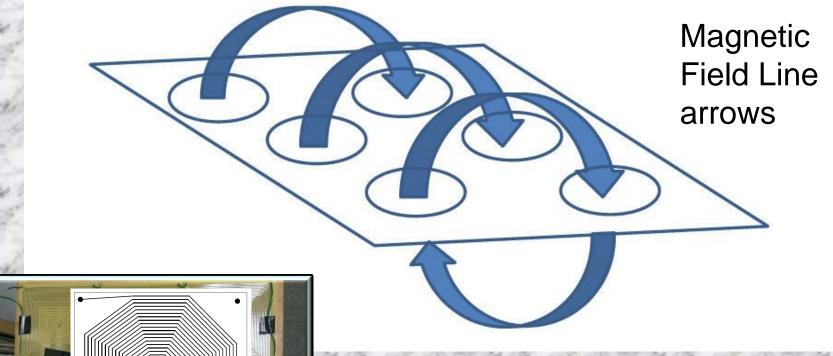
14" x 20" Pad

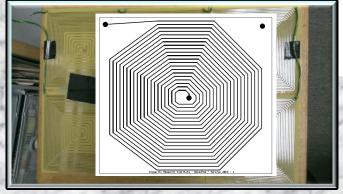


Magnetic Field Line arrows

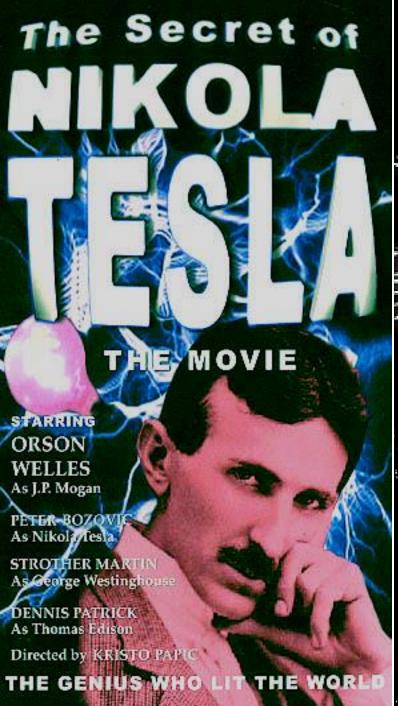
Exclusively from Integrity Research Institute
OsteoPad.org

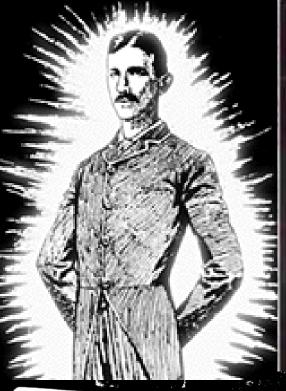
OrteoPad Special Pancake Coils Used in Pairs to Make a TripleToroid™

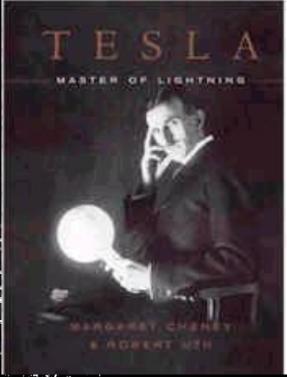




Exclusively from Integrity Research Institute OsteoPad.org







MANUFACTURED FOR THE MIAGARA FALLS POWER CO. WESTINGHOUSE ELECTRIC MEM MFG. CO.

NO 381368 TESLA MAY I IBBB

Nº 38 1969 TESLA MAY 1 1688

NO 38:870 TESLA MAY 1 1888

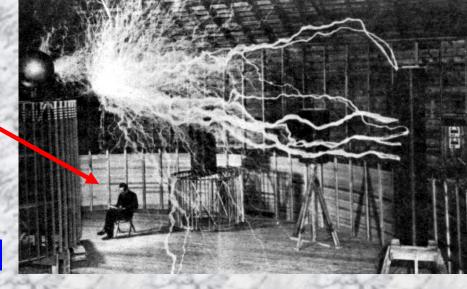
41 382279 TESTA MAY 1 1888

AG 3650BG TESTA WAY 1 1888 W BARRUI TESTA MA

.1897

PITTSBURG.PA. U.S.A. Nº 382282 TESLA MAY I 1888 TO 390414 TESLA OUT 2 IRRR 10 408776 SCHMID JULY 9 1889 Nº 428289 SCHMID MAY20 1890 NOR #1031 KENNEDY SEP 24 1889

Nikola Tesla-



Invented Tesla Coil

 1898 paper "High Frequency Oscillators for Electrotherapeutic and Other Purposes" read at the eighth annual meeting of the American Electro-Therapeutic Association in Buffalo NY

Physicians responded

 1932 Dr. Gustave Kolischer "Tesla's HF electrical currents ... highly beneficial results in dealing with cancer"

Photo credits:



ElectroTherapyMuseum.com Jeff Behary

HIGH FREQUENCY OSCILLATORS FOR ELECTRO-THERAPEUTIC AND OTHER PURPOSES

Nikola Tesla

This paper appeared in The Electrical Engineer, November 17, 1898 (Vol. XXVI, #550); it was read at the eighth annual meeting of the American Electro-Therapeutic Association, held in Buffalo, New York from September 13-15, 1898.

Some theoretical possibilities offered by currents of very high frequency and observations which I casually made while pursuing experiments with alternating currents, as well as the stimulating influence of the work of Hertz and of views boldly put forth by Oliver Lodge, determined me some time during 1889 to enter a systematic investigation of high frequency phenomena, and the results soon reached were such as to justify further efforts towards providing the laboratory with efficient means for carrying on the research in this particular field, which has proved itself so fruitful since. As a consequence alternators of special design were constructed and various arrangements for converting ordinary into high frequency currents perfected, both of which were duly described and are now—I assume—familiar.

One of the early observed and remarkable features of the high frequency currents, and one which was chiefly of interest to the physician, was their apparent harmlessness which

that is, those principally dependent on the quality of electrical movement or current's strength through the body, and third, effects of a distinct nature due to electrical waves or oscillations, that is, impulses in which the electrical energy is alternately passing in more or less rapid succession through the static and dynamic forms.

Most generally in practice these different actions are coexistent, but by a suitable selection of apparatus and observance of conditions the experimenter may make one or other of these effects predominate. Thus he may pass through the body, or any part of the same, currents of comparatively large volume under a small electrical pressure, or he may subject the body to a high electrical pressure while the current is negligibly small, or he may put the patient under the influence of electrical waves transmitted, if desired, at considerable distance through space.

The Electrical Engineer, 11/17/1898 and Infinite Energy, V. 15,

N. 89, 2010 and http://www.tfcbooks.com/tesla/1898-11-17.htm

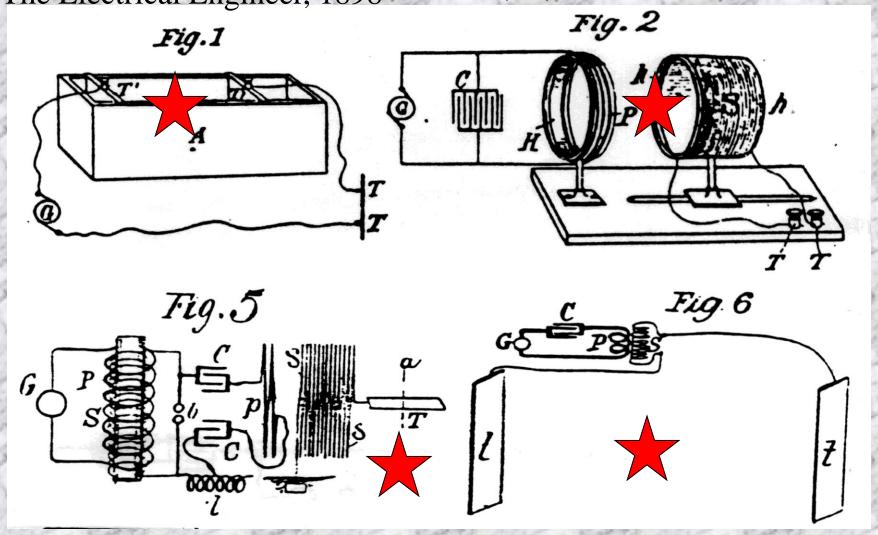
Quote from "High Frequency Oscillators for Electrotherapeutic and Other Purposes" - Nikola Tesla

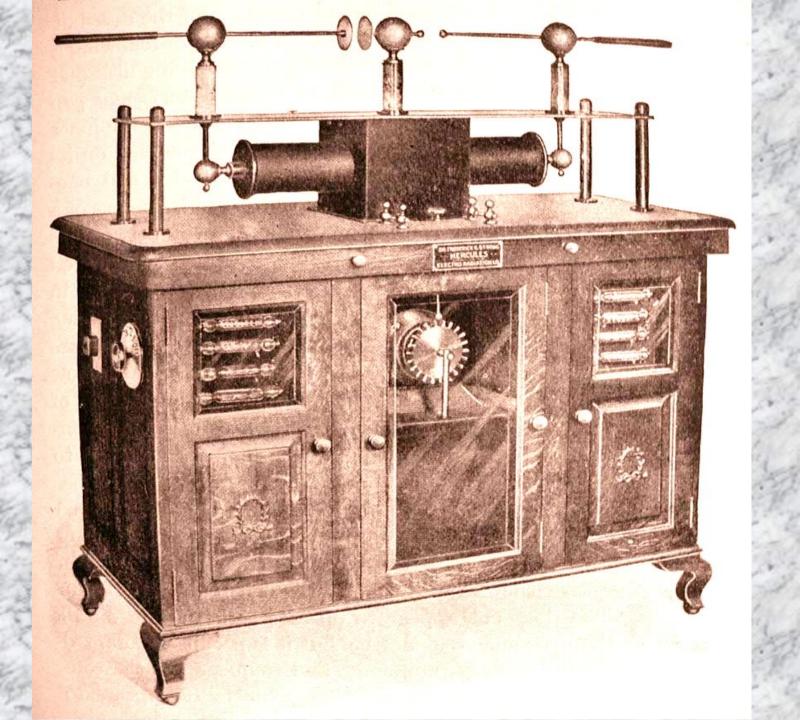
- "The body of a person may be subjected without danger to electrical pressures vastly in excess of any producible by ordinary apparatus, for they may amount to several million volts, as has been shown in actual practice."
- "...will likewise prove to be of value in electro-therapy."
- American Electro-Therapeutic Association, 1896

Tesla's HF Electrotherapy



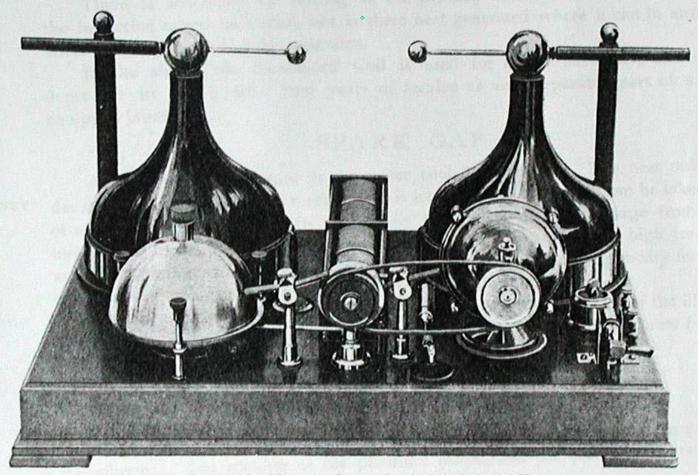
The Electrical Engineer, 1898 = patient's body





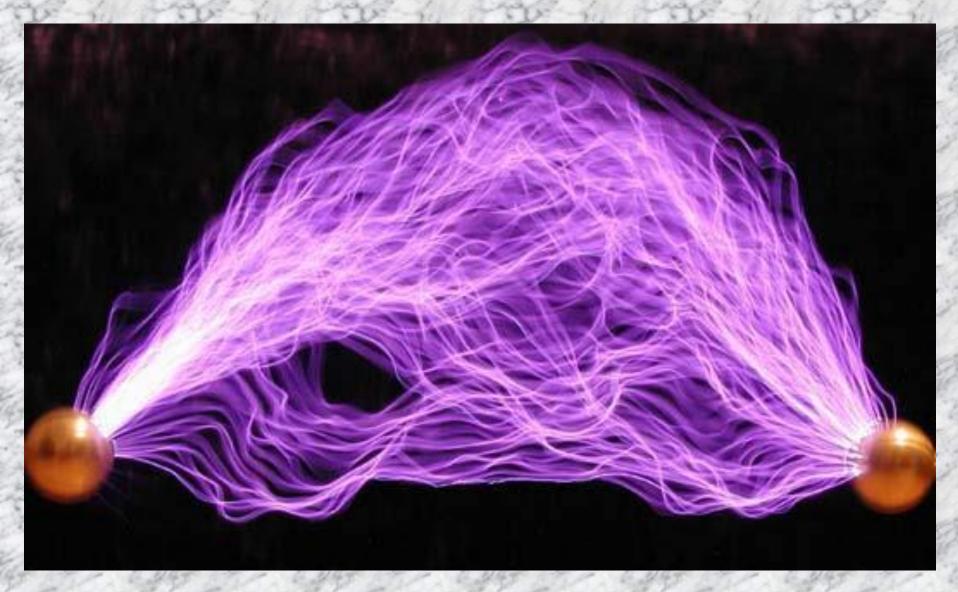
1908 Strong lercules Machine Fred F.

Kinraide Coil



THE KINRAIDE HIGH FREQUENCY COIL

Kinraide Coil Discharge



Gigahertz EMFs Reduce Tumors

Effects	Species	In Vivo Exposure condition				31.9
		Frequency (GHz)	Intensity (W/m²)	SAR (W/kg)	Duration (days × min)	Ref.
Decreased response to PWM	Rabbit	2.45 (CW)	100	1.5	$180 \times 1,380$	438
No change	Quail	2.45 (CW)	50	4.03	$12 \times 1,440$	474
Decrease in tumor development	Mouse	2.45 (CW)	(Near-field application)	35	11—14 Day of ges- tation or 11—14 and 19—45 × 20	97
Decreased granulocytic response	Rabbit	3 (CW)	30	0.5	$42 - 84 \times 360$	475
Tumor regression and increase in antitumor antibodies and anti-BSA	Rabbit	1.356	(Near-field application)	(Local hyperthermia)	1 × 10 — 15	476
Tumor inhibition and immune stimulation	Rat	2.45 (CW)	(200 W)	(Local hyperthermia)	$3 \text{ or } 6 \times 45$	477
Increased tumoricidal activity in lympho- cytes and macrophages	Mouse	1.356	6,000— 9,000	(Local hyperthermia)	1 × 5	478
Tumor regression	Mouse	3 (CW)	400	28*	$1-14 \times 120$	479
Increase in lung cancer colonies and inhibi- tion of contact sensitivity to oxazolone	Mouse	2.45 (CW)	500	36*	4, 7, 10, or 14 × 120	480
Decrease in response to BSA	Rabbit	1.356	(Near-field application)	(Local hyperthermia)	3 × 60	481
Decrease in CFU for erythroid and granu- locyte-macrophage series	Mouse	2.45 (CW)	150	10	9 × 30	470
Reduction in CFU granulocyte-macrophage precursors exposed in vitro	Mouse	2.45 (CW)	600—10,000	120—2,000	1 × 15	482

Source: CRC Handbook of Biological Effects of Electromagnetic Fields, 1986, p. 398

"Tissues are Condensors" -Nikola Tesla

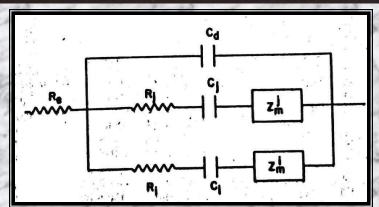
- How can tissue remain uninjured with HV?
- Metal heats up so tissues cannot be metallic
- · Great resistance? No, tissues conduct "well enough"
- High specific heat? Estimates from experiments makes this "view is untenable"
- "Only plausible explanation found is that tissues are condensors" (capacitors in today's language)
- "This only can account for the absence of injurious action"

CELLA EAS Oligosaccharides Glycolipids Cholesterol Chol

1 microfarad/cm²

Animal Plasma Membrane

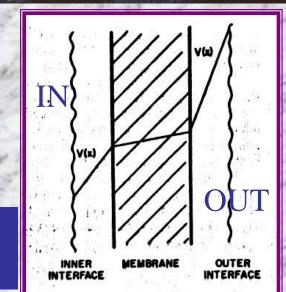
(Magnified approximately 4.5 million times)



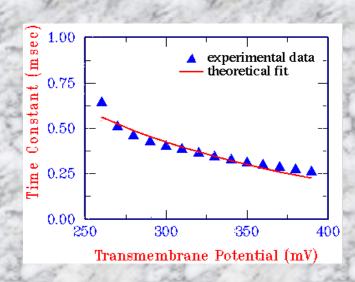
Protein

Membrane equivalent circuit

TMP is 100 kV/cm

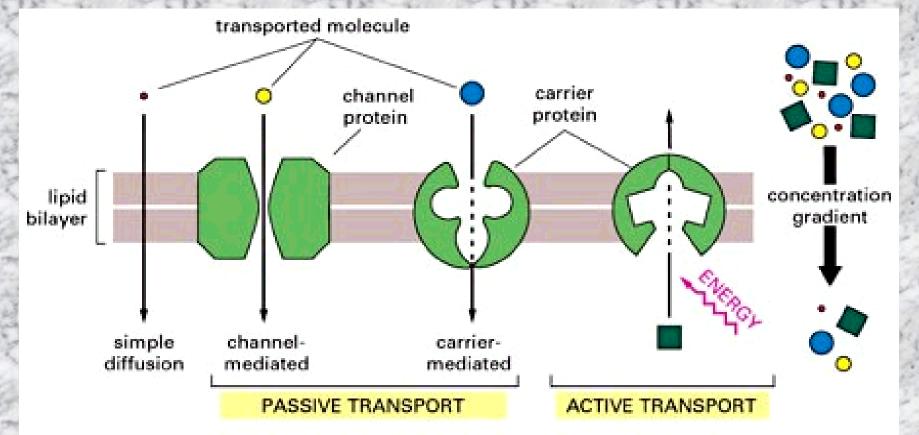


TransMembrane
Potential = -70 to
-100 mV only in
healthy individuals.
HV PEMF devices
can boost TMP in
diseased patients.



Transmembrane Activity

- Molecular transport by active and passive means
- Energy mediates the active transport mode
- TMP is at least 100 mV across 1 nm lipid bilayer
- TMP therefore can withstand 100 kV/cm (10x air!)
- Electroporation happens in the range of 1 kV/cm



SEE SULTIME

Cell Membranes Reflect a Person's State of Health

TMP= measure of normal cell metabolism

The cell membrane is electrically charged by the sodium-potassium NaK pump

 Microorganisms will reproduce when TMP gets low so keeping TMP maximized is a protective measure for a strong immune system!

Low TMP = Low Energy

Low TMP also causes ATP impairment, increased bacterial & viral reproduction

- HV PEMFs raise TMP and destroy viruses and microorganisms*..."trauma-healing"
- Adequate TMP is needed by **Schwann cells** (replacement cells) or nonfunctional undifferentiated scar tissue results**

*Jorgensen, Eur. J. Surg., 1993, V. 160, p. 85

**Becker, Ann NY Acad Sci, 1974, V. 238, p. 451

MEDICAL ELECTRICITY

WITH A PRACTICAL CHAPTER ON PHOTOTHERAPY

FOUR CHAPTERS (250 pages) available on CD-ROM from IRI called the "Tousey CD" #416 for only \$15*

SINCLAIR TOUSEY, A. M., M. D. CONSULTING SURGEON TO ST. BARTHOLOMEW'S CLINIC, NEW YORK CITY TO

W. B. SAUNDERS COMPANY

- 1) Electricity in Diseases of the Nervous System
- 2) High-Frequency Currents
- 3) Phenomena Accompanying the Transmission of Electricity Through Gases
- 4) Phototherapy

*This Medical Electricity CD is free with any Premier Junior

VACUUM ELECTRODE FILLED WITH A NOBLE GAS

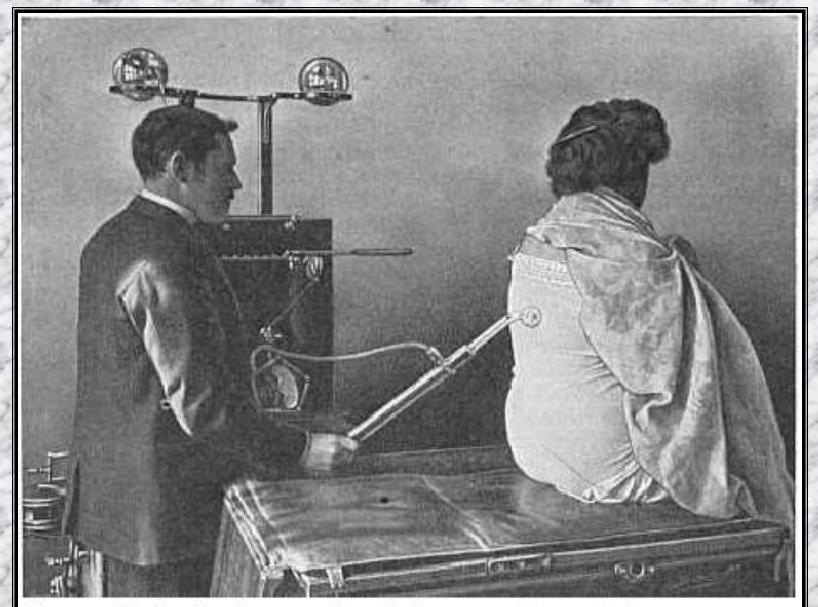


Fig. 354.—Application of vacuum electrode by means of the author's completely insulated handle.

Fig. 380 shows a cavernous epithelioma or endothelioma of the face which resisted x-ray treatment and which was completely destroyed by a single application of sparks from a metallic electrode connected with one pole of the resonator.



Fig. 380.—Cavernous endothelioms of face cured by high-frequency sparks.

Fig. 381 is of a case of flat, scaly, pigmented keratosis, apparently threatening to become epithelioma, which made such slow progress under



Fig. 381 Pigmented keratosis of face cured by high-frequency sparks.

x-ray treatment that a single application of high-frequency sparks was made with complete removal of the lesion.

High-voltage electrical stimulation improves nerve regeneration after ...

www.ncbi.nlm.nih.gov/pubmed/21975682

by RM Teodori - 2011 - <u>Cited by 19</u> - <u>Related articles</u>Rev Bras Fisioter. 2011 Aug-Sep;15(4):325-31. Epub 2011 Aug 5. *High-voltage electrical* stimulation improves *nerve regeneration* after sciatic crush injury.

High-voltage electrical stimulation improves nerve regeneration after ...

connection.ebscohost.com/.../high-voltage-electrical-stimulation-improve...

EBSCOhost serves thousands of libraries with premium essays, articles and other content including *High-voltage electrical* stimulation improves *nerve* ...

High-voltage electrical stimulation improves nerve regeneration after ...

www.rbf-bjpt.org.br/doi/10.1590/S1413-35552011005000008

OBJECTIVES: To investigate the effect of high-voltage electrical stimulation (HVES) on the morphometric and functional characteristics of the regenerated nerve ...

High-voltage electrical stimulation improves nerve regeneration after ...

www.pubpdf.com/.../High-voltage-electrical-stimulation-improves-nerve...

High-voltage electrical stimulation improves nerve regeneration after sciatic crush injury. Rev Bras Fisioter 2011 Aug-Sep;15(4):325-31. Epub 2011 Aug 5.

PREMIER Junior

Photonic Rejuvenation Energizing Machine & Immunizing Electrification Radiator

- High voltage electron transfer with direct & noncontacting means.
- Broad spectrum PEMF and discrete noble gas emissions.
- Great for muscle and joint pain.
- Portable carrying case

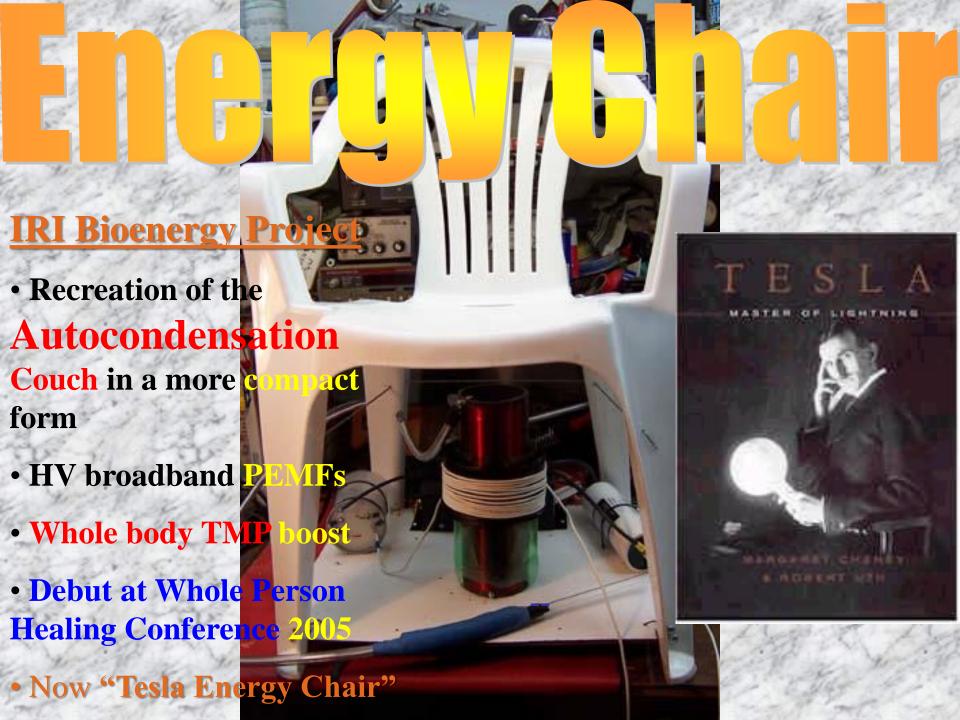
www.BioEnergyDevice.org

www.IntegrityResearchInstitute.org



Model 100 with Y-tube option

Based on the Azure patent 6,217,604 "Method for Treating Diseased States/AIDS Using an Electromagnetic Generator" and the famous "Violet Ray" from 1920



PREMIER Line of High-Voltage EMF Devices







PREMIER 2000

Photonic Rejuvenation Energizing
Machine & Immunizing Electrification
Radiator developed by IRI

BioEnergyDevice.org

WAITE & BARTLETT M'F'G CO. N.

Recommended Reading

Bioelectromagnetic Healing

A Rationale for Its Use



by Thomas Valone, Ph.D.

Pulsed

Electromagnetic Wield Health Effect



Collection of Resource Articles

Integrity Research Institute 1220 L Street NW Suite 100-232 Washington DC 20005

www.IntegrityResearchInstitute.org

2004

Fig. 2.—D'Arsonval Auto-Conduction Cage; Upright Form. (Piffard's.)

Visit www.Integrity-Research.org

Relieve Pain, Help the Heart, Body



Our EM Pulser 78 is designed to counter electropollution with a 7.8 Hz pulse rate, also known as the Schumann Resonance of Mother Earth that we all live in. But the 7.8 Hertz rate has now been proven to provide "cardioprotection" from stress. Health practioners use it and the OsteoPad, both with the same PEMF signal, to help bones and joints ("supports human osteoblast function" {Ehnert, Nature 7:14544 (2017)}. EM Pulser accessories offer UV and red light therapy, small magnetic probe and PulsePad. Try one today!



Backed by Published Research

Enter code PC22 checkout & save 10% One Year Warranty Parts and Labor All these devices make you feel energized while relieving pain and inflammation you may have

OsteoPad.org BioenergyDevice.org 800-295-7674

OsteoPad

Keep bones strong. Restore cartilage. The pulsed EMF (PEMF) field of this device will relieve osteoporosis, osteopenia, injury or inflammation with its unique Spiral Toroid Magnetic Field design and simulates exercise to produce bone & cartilage growth.

OSTEOPAD (20x14 inches) \$795

MAXIMAT (5 Ft x14 inches) \$995



PREMIER Jr.

40 kV Tesla Coil Electrotherapy with Noble Gas Electrodes that heal by energizing the body cells & killing viruses and germs. All models come with High Voltage Coil & carrying case.

MODEL 500 4 gas tubes \$795

MODEL 300 2 gas tubes \$595

