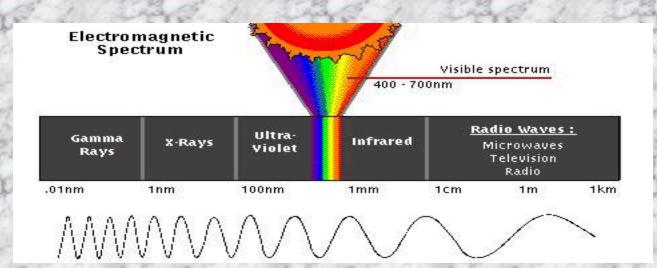
BIOELECTRIC Devices That Work and Why

Thomas Valone, PhD, PE Integrity Research Institute Washington DC

No diagnosis or cure is implied by this presentation. None of these statements have been evaluated by the FDA. 5/3/2021

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)



5/3/2021

Electrons are Antioxidants

FREE RADICALS STEAL ELECTRONS creating more free radical DAMAGE in a chain reaction (10,000 times)

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

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

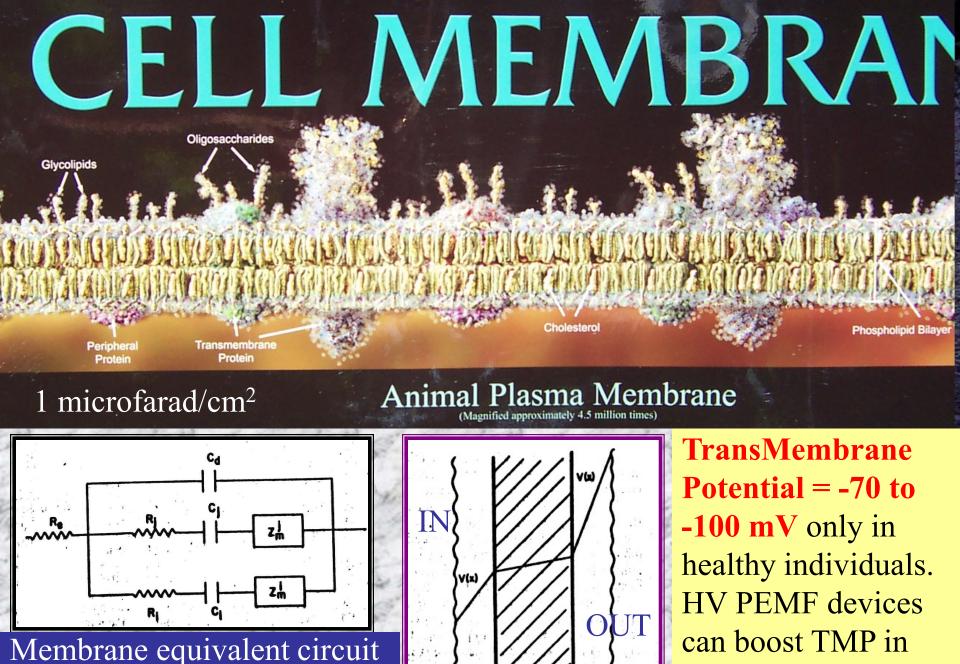
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Gigahertz EMFs Reduce Tumors

		In Vivo Exposure condition				
Effects	Species	Frequency (GHz)	Intensity (W/m ²)	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 \times 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 or 6×45	477
Increased tumoricidal activity in lympho-	Mouse	1.356	6,000— 9,000	(Local hyperthermia)	1 × 5	478
cytes and macrophages Tumor regression	Mouse	3 (CW)	400	28ª	$1 - 14 \times 120$	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-	Mouse	2.45 (CW)	150	10	9 × 30	470
locyte-macrophage series Reduction in CFU granulocyte-macrophage precursors exposed in vitro	Mouse	2.45 (CW)	600—10,000	120-2,000	1 × 15	482

5/3/2021

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

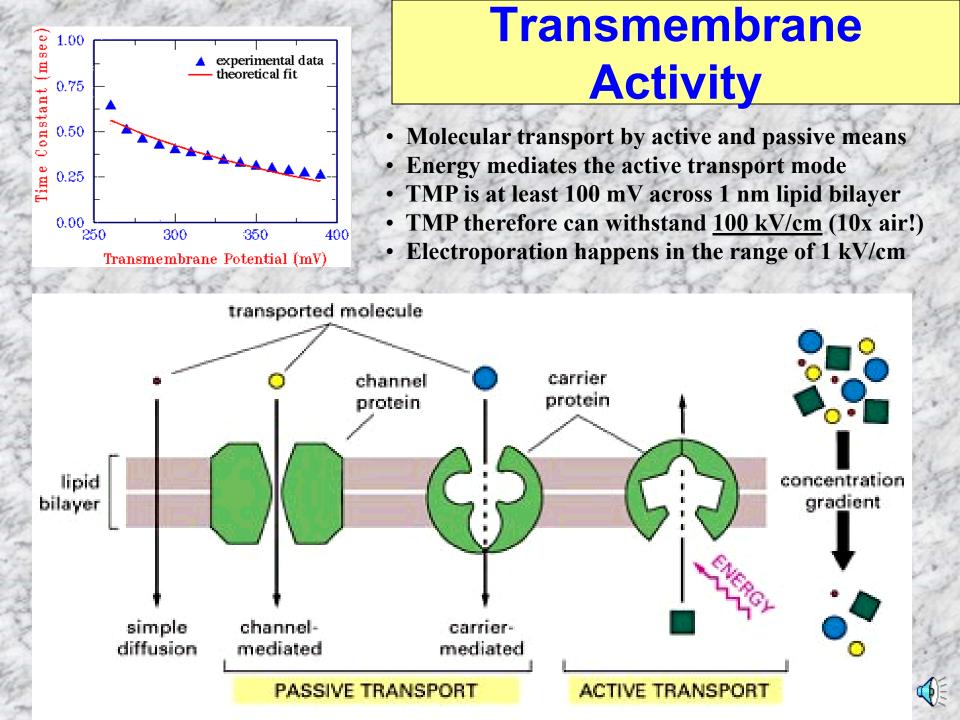


TMP is 100 kV/cm

NTERFACE

NTERFACE

diseased patients.



SEESCHART P

• The state of the 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!

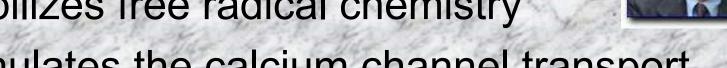
• Low TMP = Low Energy

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**
 <u>*Jorgensen, Eur. J. Surg., 1993, V. 160, p. 85</u>

Magnetic Pulses Regenerate

- Induces expression of HSP 70*
- Quenches inflammation and trauma
- Stabilizes free radical chemistry

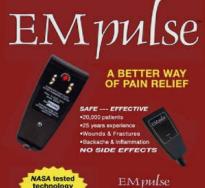


- Stimulates the calcium channel transport
- Upregulates growth and restorative genes
- Downregulates dysregulatory genes
- Fast rise time of pulse is the key (dB/dt)

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

* Goodman, Reba. Columbia University, Dept. of Physiology

Dr. Glen Gordon's EMpulse



EMpulse FDA registerd 100% guaranteed

ds & Fracturer SIDE FEFECTS

A BETTER WAY OF PAIN RELIEF

EMPROBE

← Old model

New Model Developed By Dr. Valone for **Integrity Research**



Fastest nanosecond rise time on market 7.8 Hz pulse rate Anti-inflammatory Stimulates HSP 70 in just 10 min.

 Upregulates restorative genes

> **BioEnergyDevice.org** Visit



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 <u>only</u> **NANOSECOND** PEMF device

Therapeutic Electric Antioxidant Clothing

- Patented invention assigned to IRI by Dr. Jacqueline Panting, ND
- Skintight shirts, pants, shorts, headband, and gloves
- Provides microcurrent electronic antioxidants continuously
- Quenches free radicals and restores energy and vitality
- Increases endurance
- Licensees, investors welcome
- See bioenergydevice.org for more info



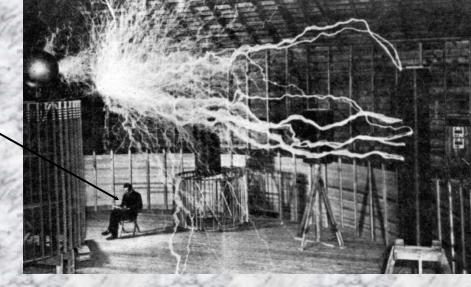
Rationale for Healing with PEMFs*

- 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 TMP
- Electroporation transmigrates ions & nutrients
- Boosting TMP with an infusion of antioxidant electrons helps restore the immune system
- Noticeable energy boost from PEMFs in diseased patients

*Pulsed ElectroMagnetic Fields **TMP = TransMembrane Potential

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

Physicians responded

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

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

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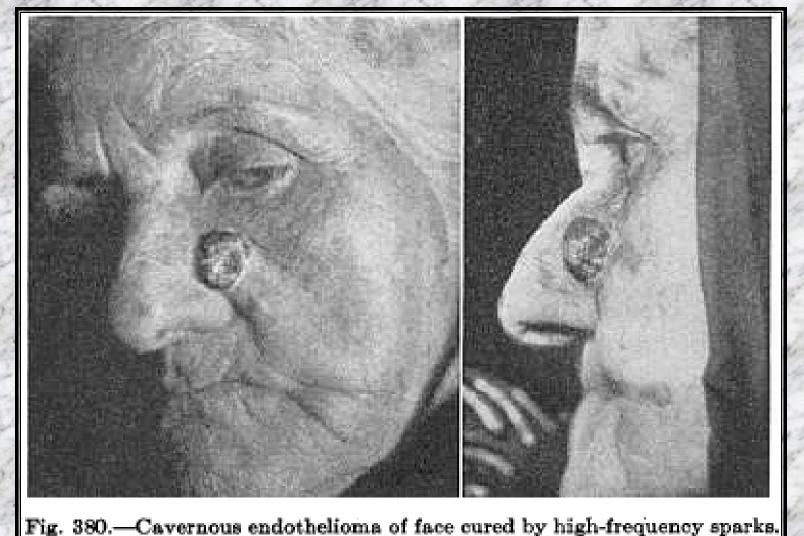
VACUUM ELECTRODE FILLED WITH A NOBLE GAS



Tousey CD

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.



Tousey CD

PREMIER Line of High-Voltage Vacuum Electrode EMF Devices



PREMIER 2500

PREMIER Junior

Photonic Rejuvenation Energizing Machine & Immunizing Electrification Radiator developed by IRI BioEnergyDevice.org

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

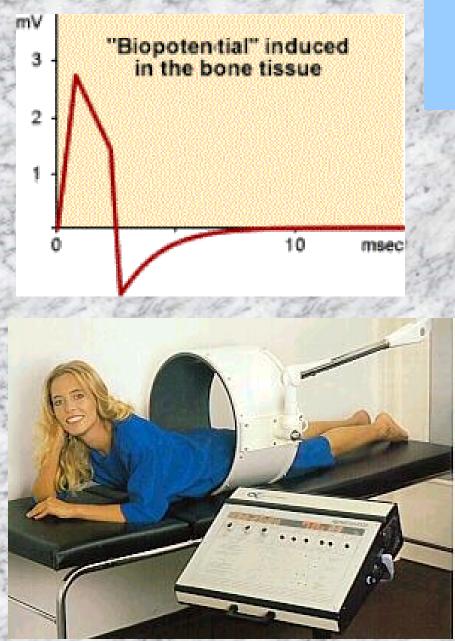
www.IntegrityResearchInstitute.org



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





Biostim SPT

- Pulsed magnetic field at 16 Hz also called "PEMF"
 5 to 20 microamperes
 Speeds bone healing
 Effective in Osteo and Rheumatoid arthritis, cervical spondylosis, ostiomylitis
 FDA approved
 - Yale U School of Med

Compare with similar device: Earthpulsetechnologies.com

"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



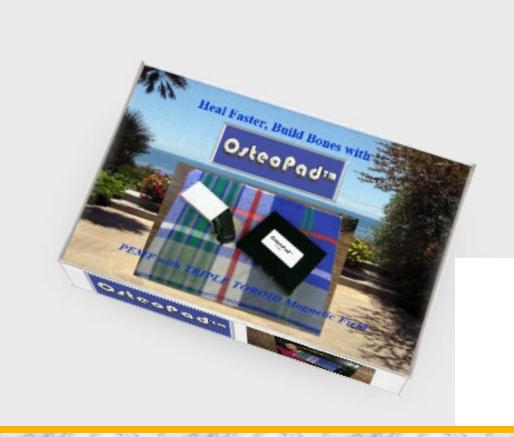


HealthyEMF treatedNo ovariesJ. Kinney, Law. LivermoreNat. Lab



OrteoPad Designed to Restore Cartilage & Bone

Two models: OsteoPad 14" x 20" and OsteoPad MaxiMat 14" x 60"

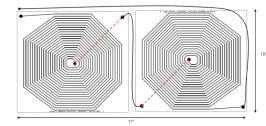


OsteoPad MaxiMat is 5 feet long and about 14" wide

OcteoPad Pairs of Coils Make a DoubleToroid ™ Spiral Toroid Design means better magnetic field penetration

14" x 20" pad

OsteoPad Circuit for Two Coils



Proprietary - OsteoPad Ver. 4 – Two Coils - Integrity Research Institute 2015 - Thomas Valone

Magnetic Field Line arrows

Exclusively from Integrity Research Institute OsteoPad.org



Upright Form. (Piffard's.)

Recommended Reading

Bioelectromagnetic Healing A Rationale for Its Use

by Thomas Valone, Ph.D.

Pulsed Electromagnetic Field Health Effect



Collection of Resource Articles

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