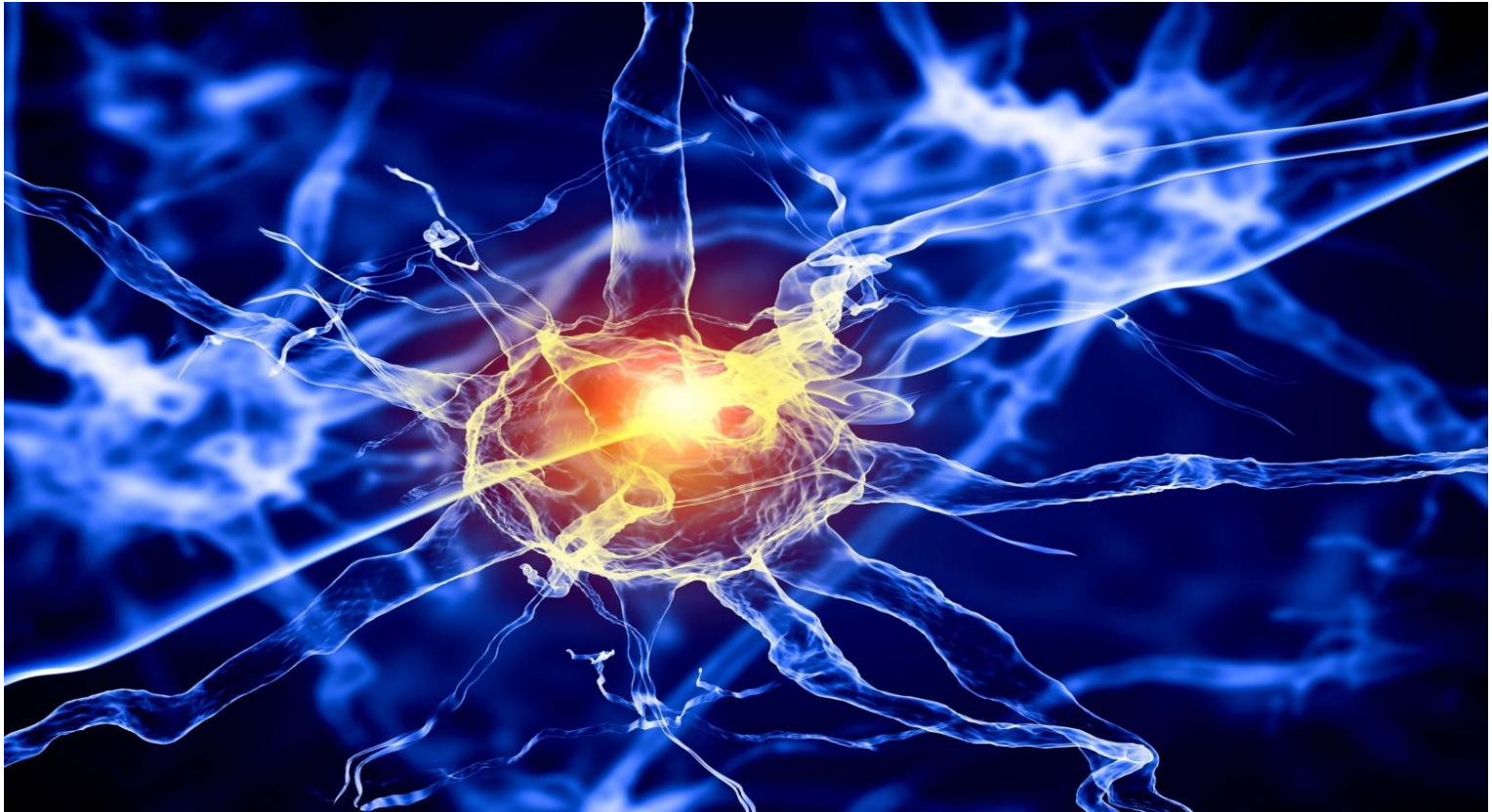


Wellness, Injury Recovery, and Optimal Performance



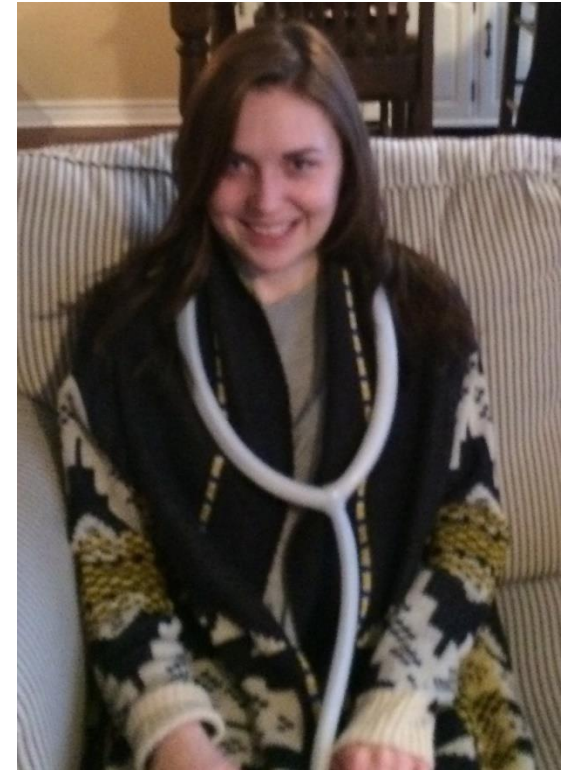
are ALL about cellular health!!!

Pulsed Electromagnetic Field Therapy

**PEMF is all about
cellular health too**

Call James at 647-289-3791

PEMF delivers a gentle energy into the body



PEMF Snapshot

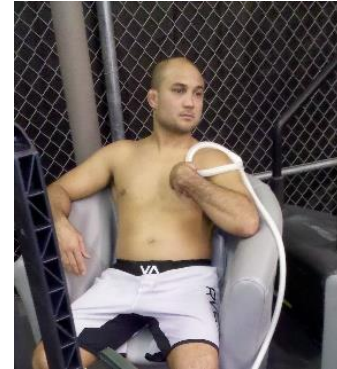
- **Battery charger for cells**
- **Normalizes Membrane Potential (bio-energy) of cells**
- **Deficient cells draw energy, constrict (force toxins out & the PEMF energy in)**
- **Healthy cells allow the energy to pass by**

PEMF Snapshot

- **Using CLINICAL-LEVEL PEMF Devices:**
 - **about 95% of people report *pain relief, increased range of motion, more energy, greater sense of wellbeing* after 15 minutes**
- **Hold improvement for *4 hours to 4 days***

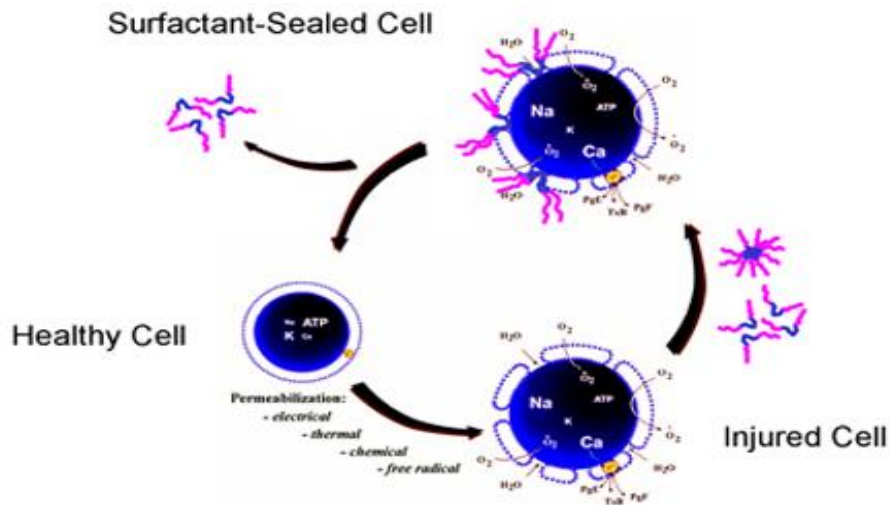
PEMF

- Adapts to needs/goals of each individual
 - and works to restore cell function
 - doesn't care where cell is, or who's it is
 - doesn't discriminate, works @ what's there to work with:
 - a person with an illness sees symptomatic relief;
 - a *healthy* person becomes more resistant to illness,
 - an athlete (or other individual interested in optimal performance) performs better.
 - Works synergistically with other methods
 - Enhances benefits of other methods
 - Amplifies (practices like) *eating well and exercising exponentially!*



How PEMF Works

- Body – 000,000s tiny electrical currents & impulses interacting throughout the cells.



- PEMF increases spin of the electron replenishing cell membrane potential (**difference in electrical potential between interior and exterior of the cell**)

- PEMF recharges batteries: interacts with the Sodium/Potassium pump (**helps maintain cell energy and regulate cellular volume**) and “boosts” it.

How PEMF Works

- Improvements in cell membrane potential
- Cell membranes “stacked polar lipids”, 2 ends:
 - one fat soluble (or lipophilic)
 - one water soluble (or hydrophilic)
- Fatty molecules self-organize in water.
- Polar structure occurs:
 - net electron deficiency one part of the molecule
 - excess at the other

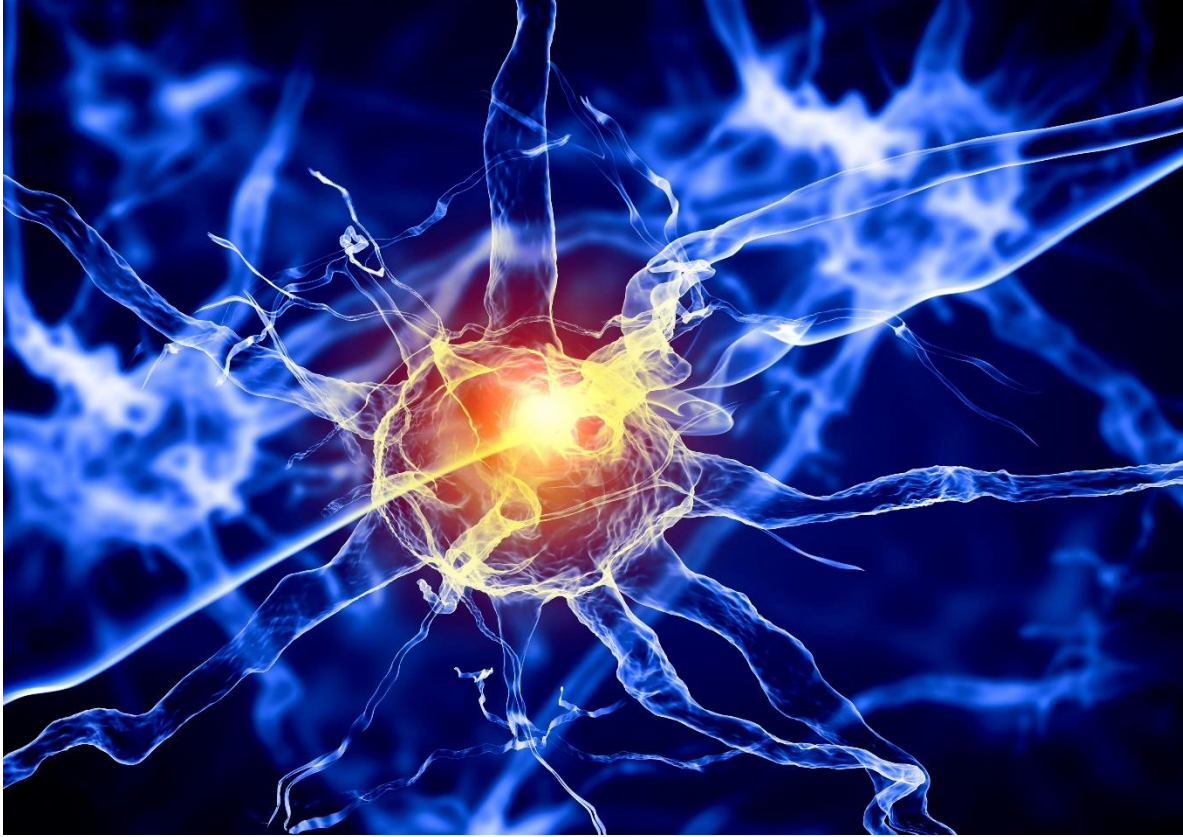
How PEMF Works

- **Toxins prevent tight stacking of cell membranes or disrupt organization of the polar lipids.**
- **Disorganization decreases cell membrane's ability to maintain electricity across its surface**
 - **This causes power leakages which underlie many diseases and syndromes**
- **Exposing the “polar” regions of lipid molecules to a magnetic field produces a “spin” moment**
 - **the field pulls on one end while pushing on the other.**

How PEMF Works:

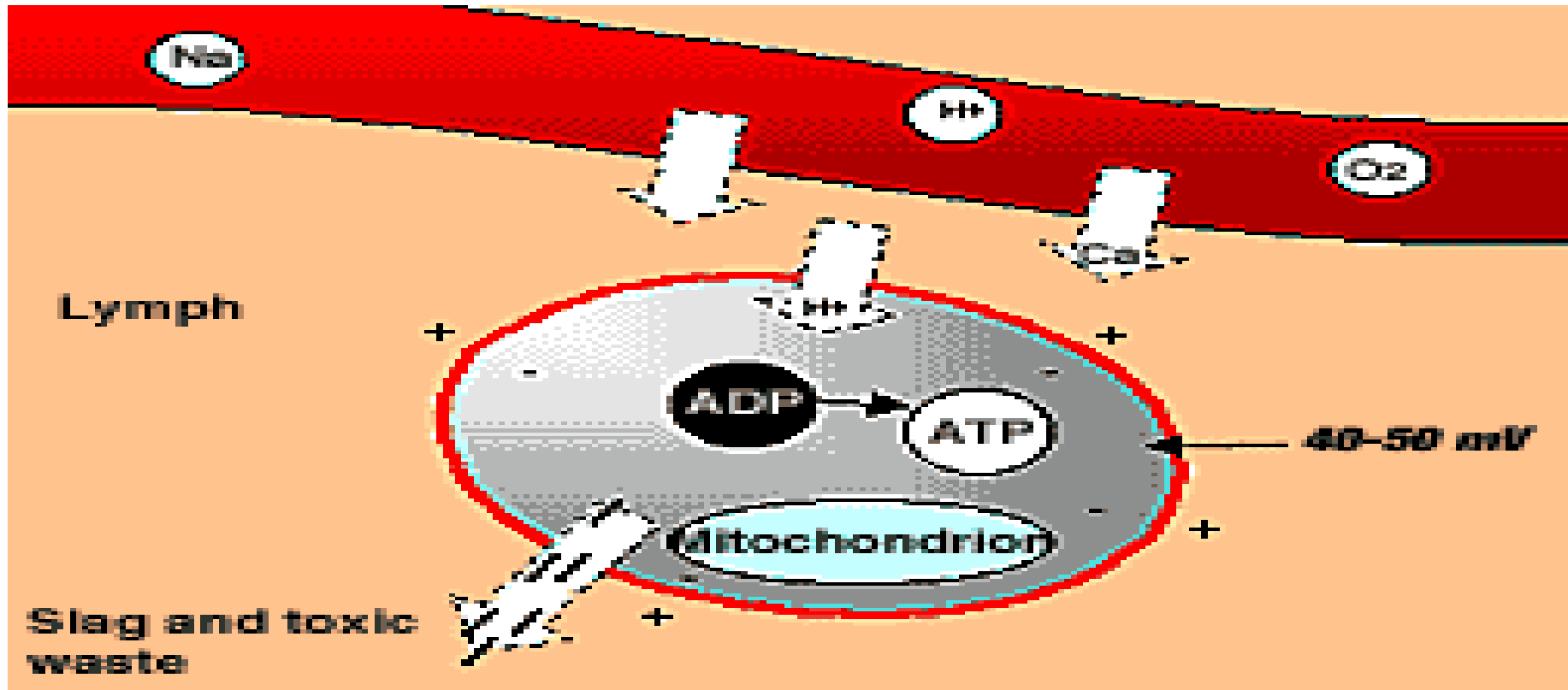
- This “tug/nudge” effect produces a gentle shaking of the polar lipids
- Gentle shaking improves organization in the cell membrane:
 - Improves electrical integrity
 - Improved power production performance.
 - Decreases tendency for structured synthetic toxins to fit within the lipid matrix – producing a mild detoxification effect.

Healthy Cells



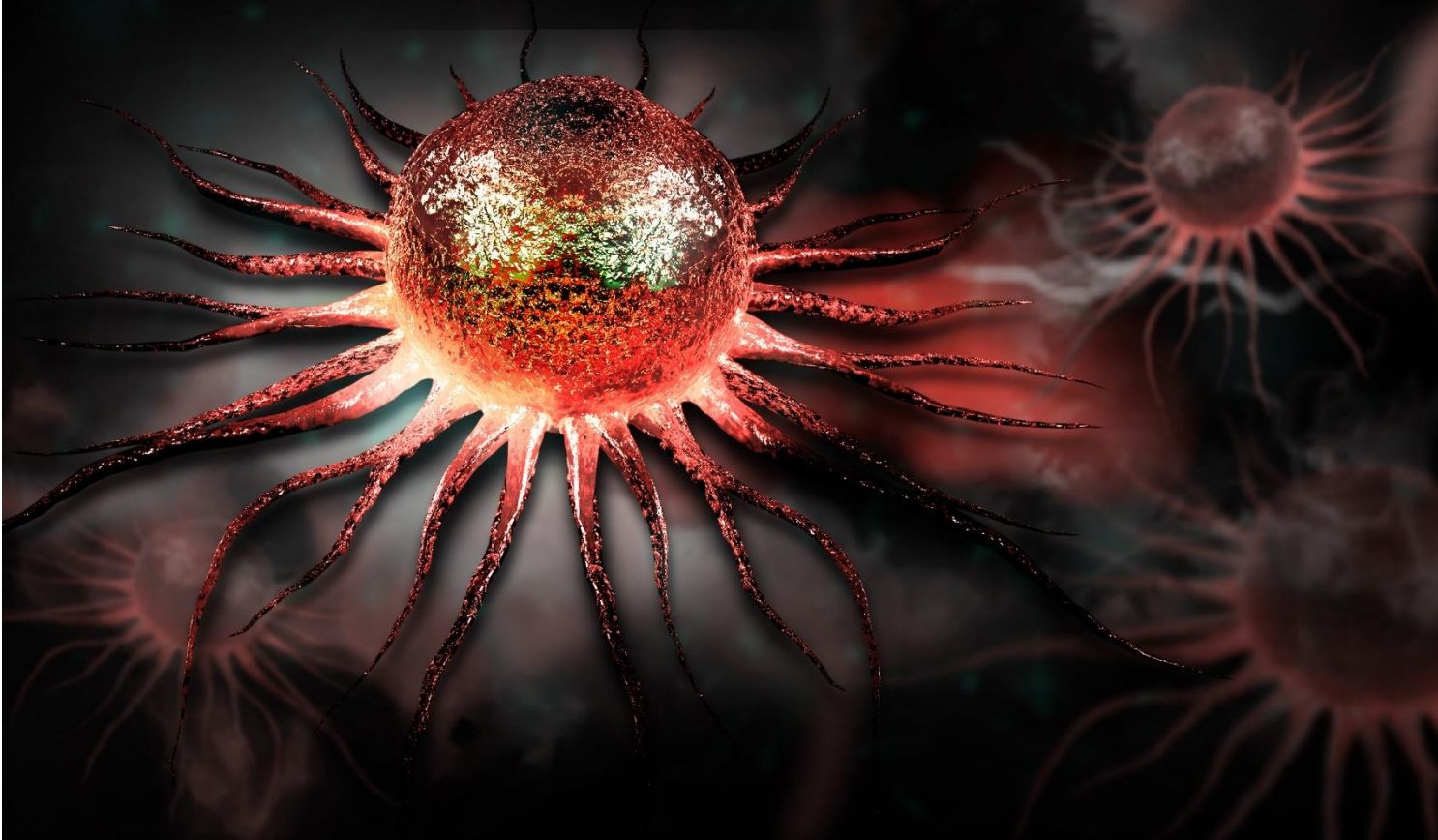
- **have electrical charge of -70 to -120 millivolts**
- **need this power to transport oxygen or nutrients, remove waste, and communicate with other cells**
- **need this power to do normal functions like: keeping our hearts beating, helping us think, digesting food etc.**

Deficient Cell



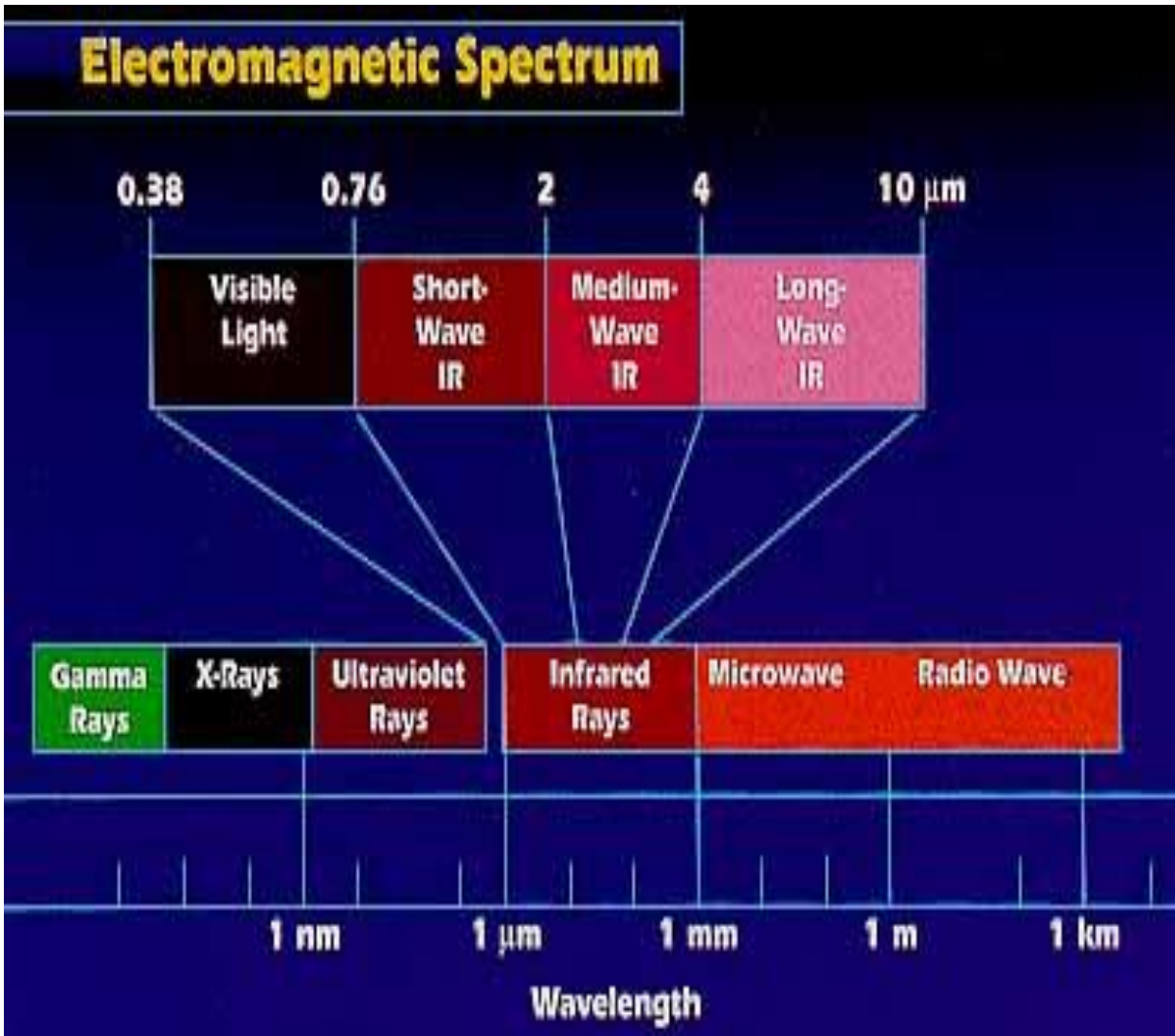
- Less than - 50 millivolts charge
- Diminished capability to perform normal cell functions
- **red blood cells link or stack together reducing the ability to transport oxygen**

Cancerous Cells



- **if cellular charge is reduced to -20 millivolts range, cell goes into survival mode and starts reproducing (deficient cells)**

Electromagnetic Spectrum



- Lightning bolt
- Excites all freq. on the EMS.
- PEMF like Micro Pulsed Lightning
- Frequencies .25hz-250,000 mhz,

Effects of PEMF Energy

- **Atomic excitement**
 - stimulates spin of electron; store energy up to 4 days
- **Molecules align slightly @ each magnetic pulse**
 - molecules easier to combine, especially when excited.
- **pH becomes more alkaline**
 - allows better O₂ uptake & suppresses harmful entities
- **Surface tension shift up to 16 fold**
 - Fluids flow into cell gates much more efficiently or lymph to thin and flow.

Effects of PEMF Energy

- **Red blood cells separate**
 - restoring charge, increasing repel, allowing more surface area to transport oxygen.
- **Vascular system relaxes**
 - blood pressure decreases by 15% to 30%.
- **Systemic response**
 - body functions fine tuned or turbo charged
 - doesn't discriminate (not only targeted areas)
 - overall sense of well being.

Effects of PEMF Energy

- **Bone mending**
 - quality calcium enhanced,
 - recovery from a fracture 1/3 time
 - skin of the bone seems to develop cells more like the DNA dictates.
- **(Believed) some sodium back to potassium**
 - (US Army study Biological Transmutations)
 - reduction of sodium theoretically helps with pain reduction.

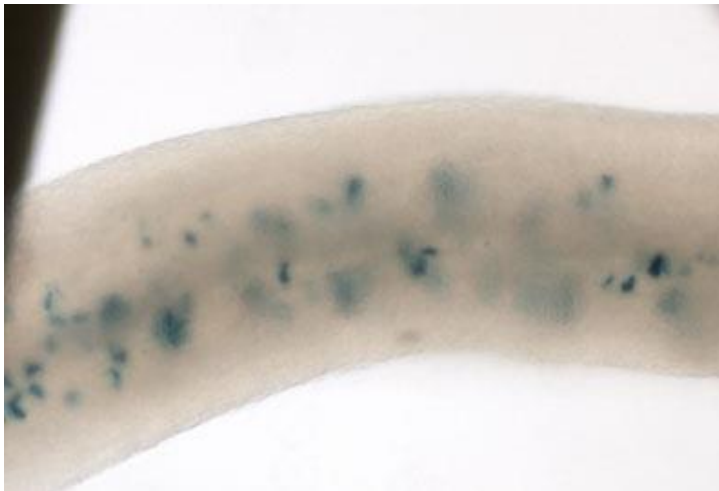
Effects of PEMF Energy

- **Electromagnetic pulse causes micro currents**
 - run through neural pathways
 - keeps C fibers from neural gates (which allow the pain signal to stream to the brain).
 - less signal, less pain perception.

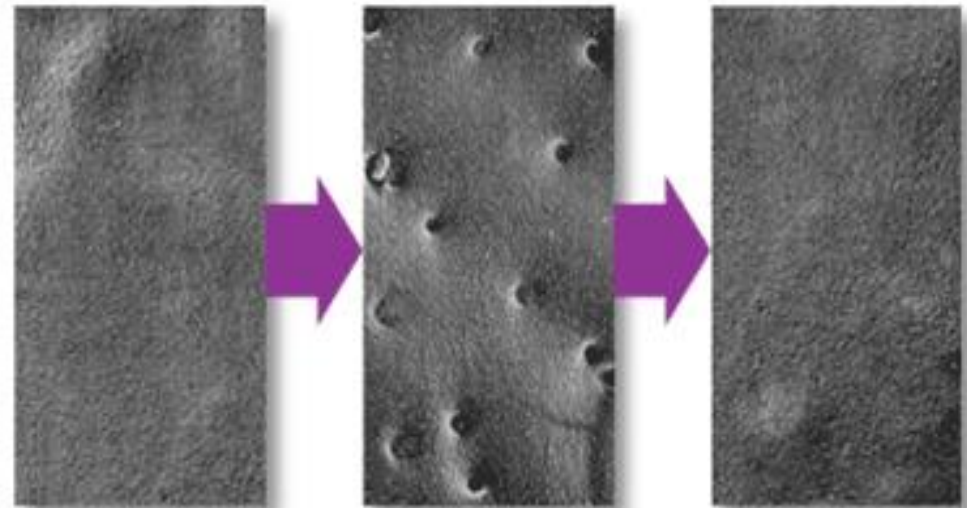
- **Electroporation**
 - cell gates open allow more passage of solvent H₂O
 - dissolves toxins
 - better delivery of medicine or herb.

Electroporation

- Cells detox /release waste
- Better nutritional uptake
- Better delivery mechanism (medicines, herbs, treatments)
- Better H2O, O2 flow
- Better cell function
- Better immune system



The phenomenon of electroporation



Cell membrane
before pulsing

Cell membrane
during pulsing

Cell membrane
after pulsing
(cell returns to

- *Controlled, millisecond electrical pulses induce temporary pores in the cell membrane*
- *Cell membrane reseals and is left unharmed*

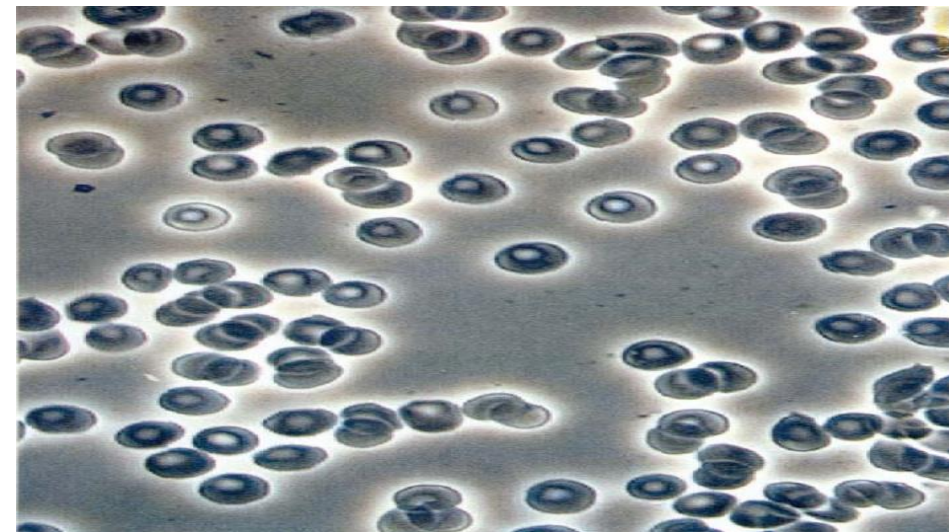
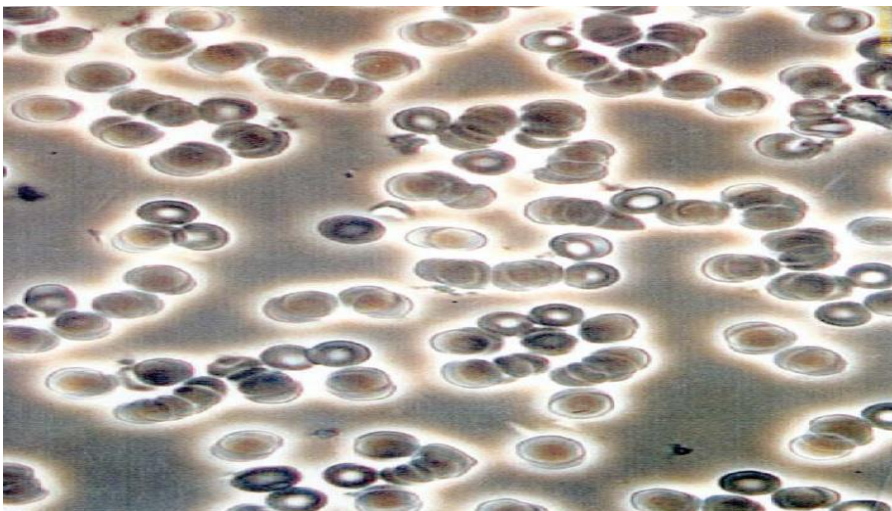
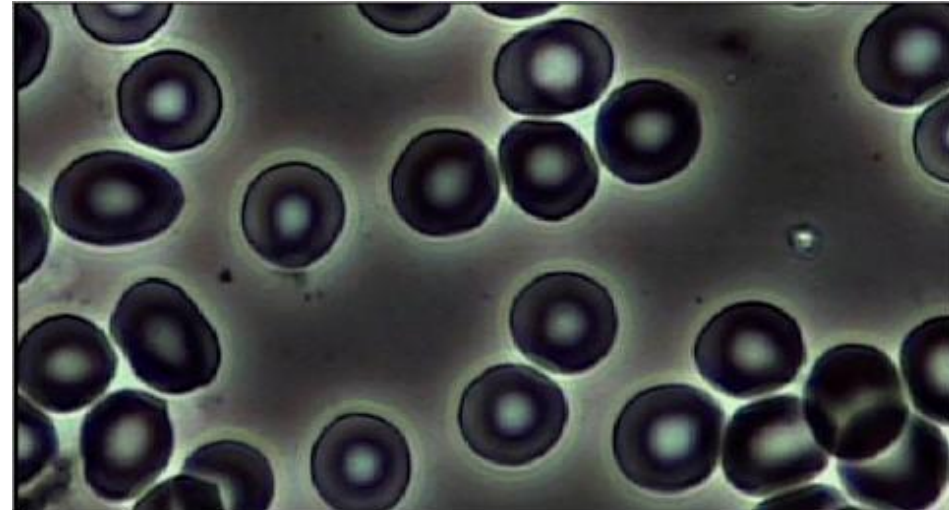
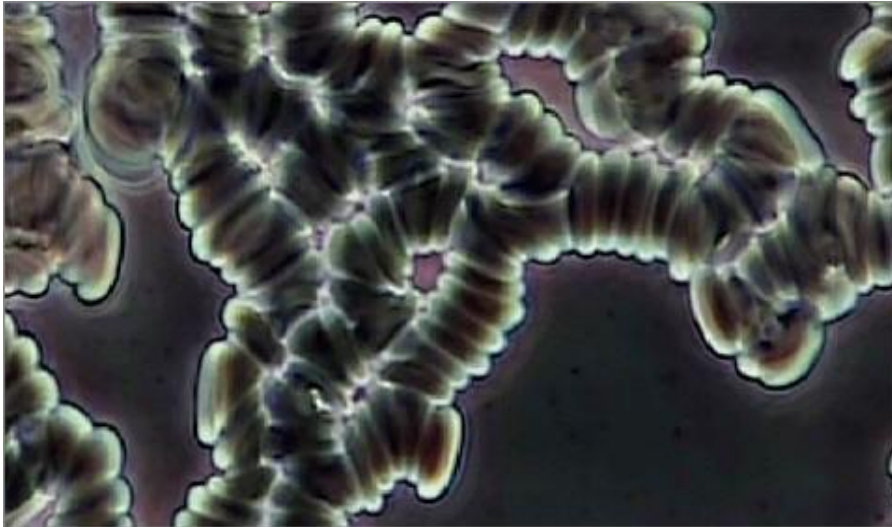


Systemic Responses of PEMF

Rouleau Index – O₂ transport

BEFORE (higher)

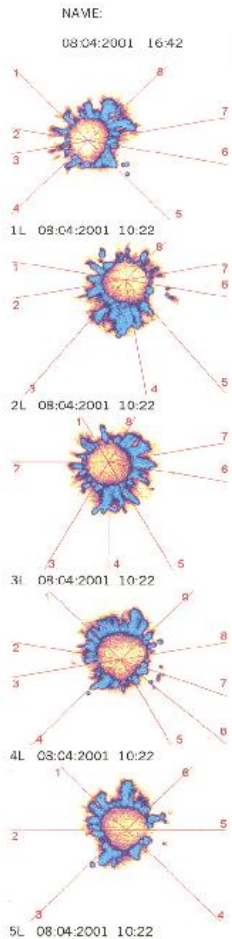
AFTER (lower)



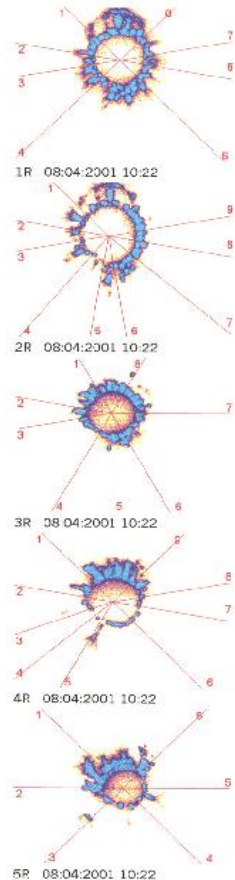
Kirlian Photo

BEFORE

Kirlian Photo Before



Session

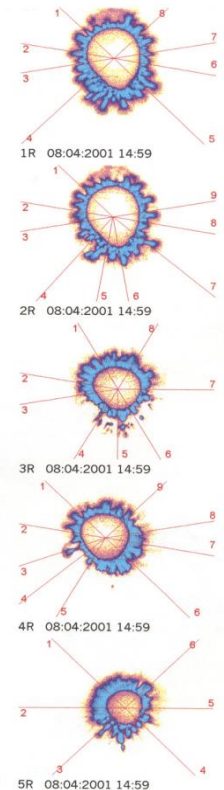
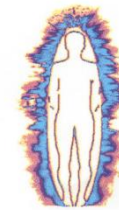
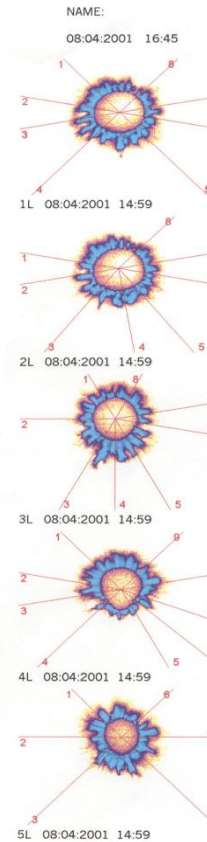


Note:
energy out
put change

and the
balance
restored

AFTER

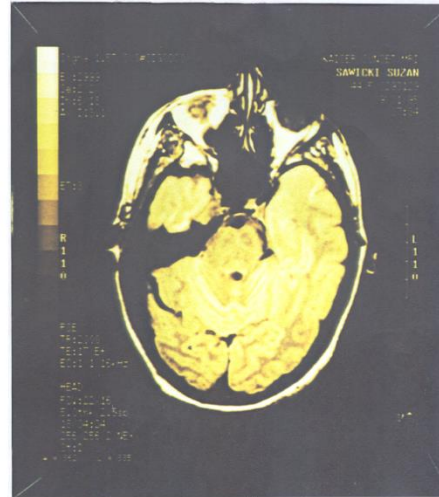
Kirlian Photo After



Brain Fissure

BEFORE

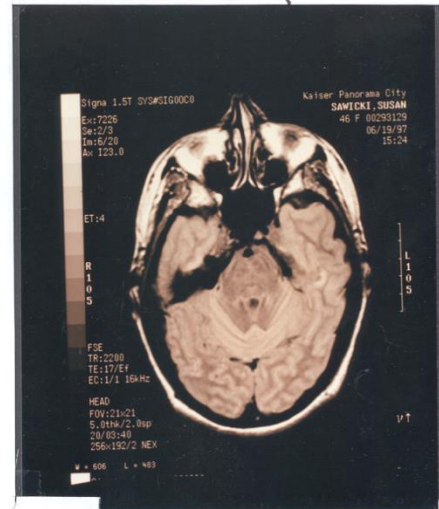
Before PAPIMI



AFTER

- 2 years
consistent
Sessions

After PAPIMI



Temperature & Circulation

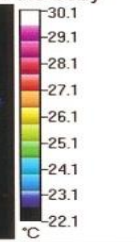
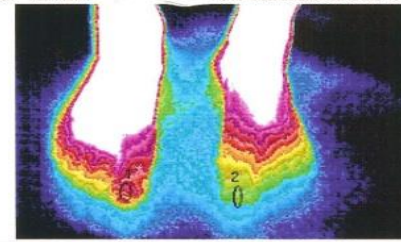
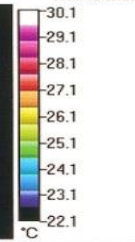
Core Care Imaging Center

Cindy Crawford, AMIA Board Qualified Thermographic Technician, 1634 Union Street
 San Francisco, CA 94123 USA
 Phone: 415-928-8501 Fax: 415-928-0452

Patient Name: Cindy Crawford
Type Of Exam:
Thermal Indicator:
Risk Indicator:

Date of Exam: July 26, 2007
Reported By: Cindy Crawford/Marc Weill Technician
Recall:
Report No: 8

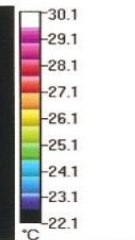
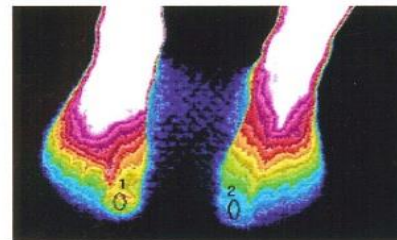
Before Treatment immediately after 12 min on various areas of the body



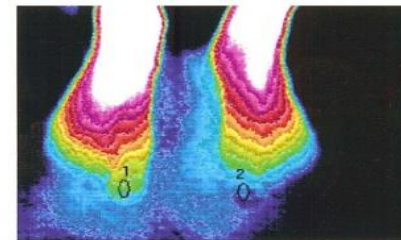
	1	2	3	4	5	6
Type	Circle	Circle	None	None	None	None
Maximum	28.5°C	25.4°C				
Average	27.2°C	24.6°C				
Minimum	23.8°C	23.6°C				
Delta Avg		2.6°C				

	1	2	3	4	5	6
Type	Circle	Circle	None	None	None	None
Maximum	28.4°C	25.4°C				
Average	27.6°C	25.0°C				
Minimum	26.6°C	24.1°C				
Delta Avg		2.6°C				

15 min after completion of



25 min after completion of the



	1	2	3	4	5	6
Type	Circle	Circle	None	None	None	None
Maximum	27.0°C	24.6°C				
Average	25.8°C	23.9°C				
Minimum	24.8°C	22.9°C				
Delta Avg		1.9°C				

	1	2	3	4	5	6
Type	Circle	Circle	None	None	None	None
Maximum	25.3°C	23.9°C				
Average	24.7°C	23.3°C				
Minimum	24.0°C	22.7°C				
Delta Avg		1.4°C				

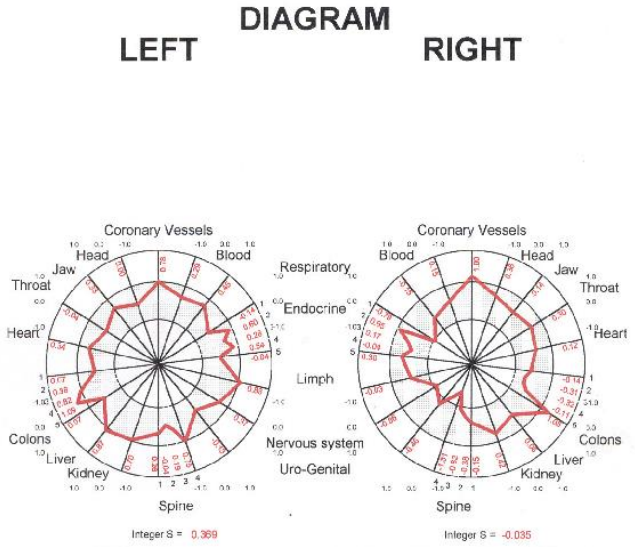
Temperature variation between big toes is better.... Energy Improved in the left foot!

Dramatic
 difference
 in
 temperature
 30 minutes
 after session

Iridology – gas discharge

BEFORE

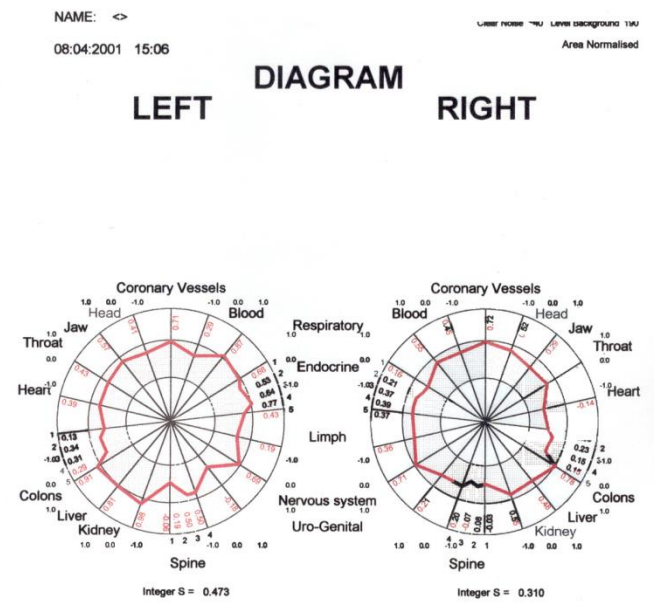
AFTER



These gas discharge visualization charts were prepared by Dr. Beverly Rubik in San Diego. They show a rise in areas that were low and a drop in areas that were high; balance in organs and enzymes.

- | | | | |
|-------------------|------------|--------------|---------------|
| Endocrine system: | Spine: | Left Colons: | Right Colons: |
| 1 System | 1 Cervical | 1 Transverse | 1 Transverse |
| 2 Pineal Gland | 2 Cervical | 2 Descending | 2 Ascending |
| 3 Pituitary Gland | 3 Lumbar | 3 Sigmoid | 3 Appendix |
| 4 Hypothalamus | 4 Sacral | 4 Rectum | 4 Caecum |
| 5 Thyroid Gland | | 5 Ileum | 5 Duodenum |

Raising the low, and lowering the high



- | | | | |
|-------------------|------------|--------------|---------------|
| Endocrine system: | Spine: | Left Colons: | Right Colons: |
| 1 System | 1 Cervical | 1 Transverse | 1 Transverse |
| 2 Pineal Gland | 2 Cervical | 2 Descending | 2 Ascending |
| 3 Pituitary Gland | 3 Lumbar | 3 Sigmoid | 3 Appendix |
| 4 Hypothalamus | 4 Sacral | 4 Rectum | 4 Caecum |
| 5 Thyroid Gland | | 5 Ileum | 5 Duodenum |

Before High-Powered PEMF

After High-Powered PEMF

Approved (FDA) uses for PEMF

- Chronic non-malignant pain relief
- Post-operative pain and edema
- Bone growth/regeneration:
 - faster healing of delayed non-union fractures
 - clients with diabetes and vascular issues
- Depression – if anti-depressants ineffective
- Adjunct to cervical fusion surgery
- Brain cancer 2011

- Enhanced tissue repair (NASA) 2009
- Stimulate growth stem cells (NASA adjunct)

Probable Therapeutic Contributions

OBSERVABLE

- Increased range of motion/muscle elasticity
- Bone growth - accelerated injury recovery
- Systemic Responses (temp. Rouleau Index etc.)

REPORTED

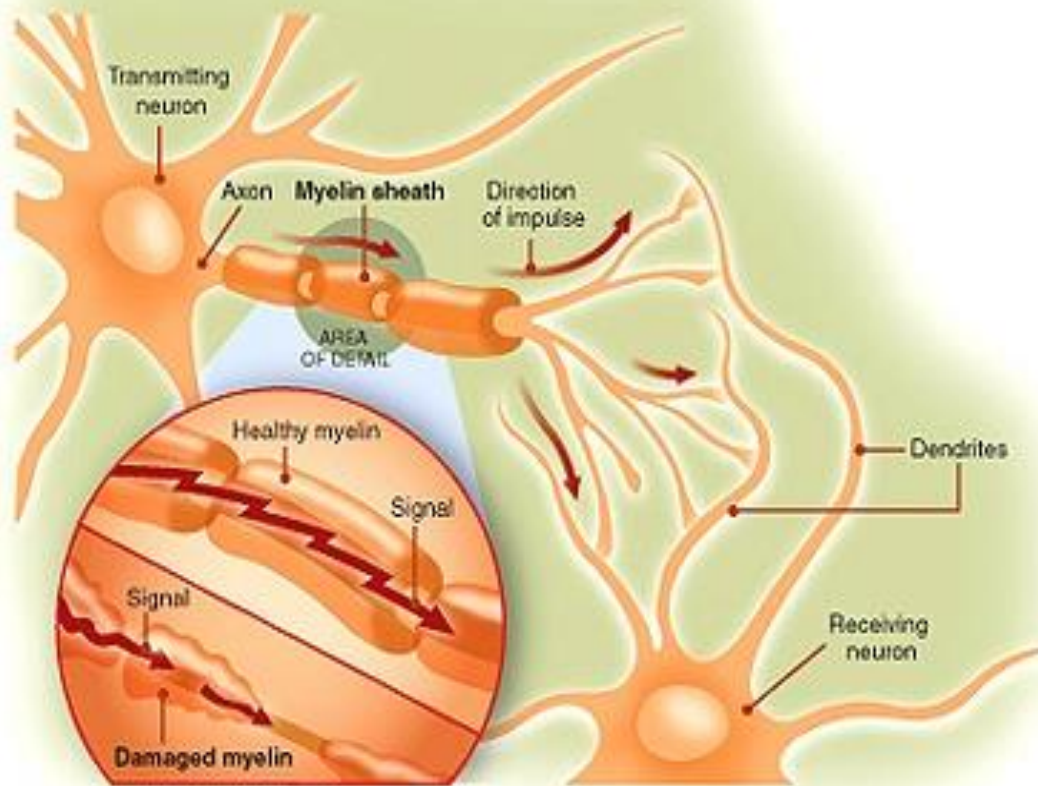
- Pain relief (reduced inflammation)
- Improved relaxation and sense of well-being

RULE of THUMB: 95% of people 15 minutes

Contraindications for PEMF

- **Pacemakers (or other electrical implants)**
- **Pregnancy**
- **Blood thinners**
- **Non-titanium plates, rods**
- **<18 need parental consent**
- **History of severe epilepsy**

Nerves and Energy



Afferent Nerves

- Carry signal to the brain
- You feel the energy sensation go right to the spot

Efferent Nerves

- Carry signal from the brain
- You feel the muscle jump, but no real pain

**Each different:
client sets
intensity level
“AHA”**

600+ Clinical Experiences with PEMF

- **IMMEDIATE (15 minutes)**
 - Pain (back, joint, arthritis, dental)
 - Muscle & Joint Stiffness
 - Neurological Degenerative Conditions (Parkinson's, MS, ALS, Guillain-Barre)
 - Stroke
 - Diabetic neuropathy
 - Low energy (including athletes)
 - Sinus

600+ Clinical Experiences with PEMF

- Speed and discharge of the pulse allows up to 60 minutes on an area without adverse reactions.
- Integrates with and enhances benefits of other methods:
 - Pelvic correction technique
 - Oxygen
 - Scar tissue therapy
 - Intranasal light therapy
 - Supplementation

600+ Clinical Experiences with PEMF

- **CUMULATIVE HEALING CONTRIBUTOR**

- Fibromyalgia (least predictable)

- Post-op recovery; joint replacement

- Cancer / chemotherapy survivor

- Lyme Disease

- Fibroids

- Prostate (EDS)

Compelling PEMF Health Cases

- **77 year old stroke survivor; 7 years later**
Could communicate “no pain” one weekend
- **65 year old MS Client**
From wheelchair to riding horse and squats
- **50 year-old ALS Client**
Raise hand over head 1st time 12 months
- **60 year old Diabetic neuropathy client**
Felt feet 1st time in 30 years; saved toes
- **49 year old (former) Guillain Barre patient**
Damaged cells in legs acted like *fish on dry land*
James G. Comerford in 2005; GBS in 1996!!!

Compelling PEMF Health Cases

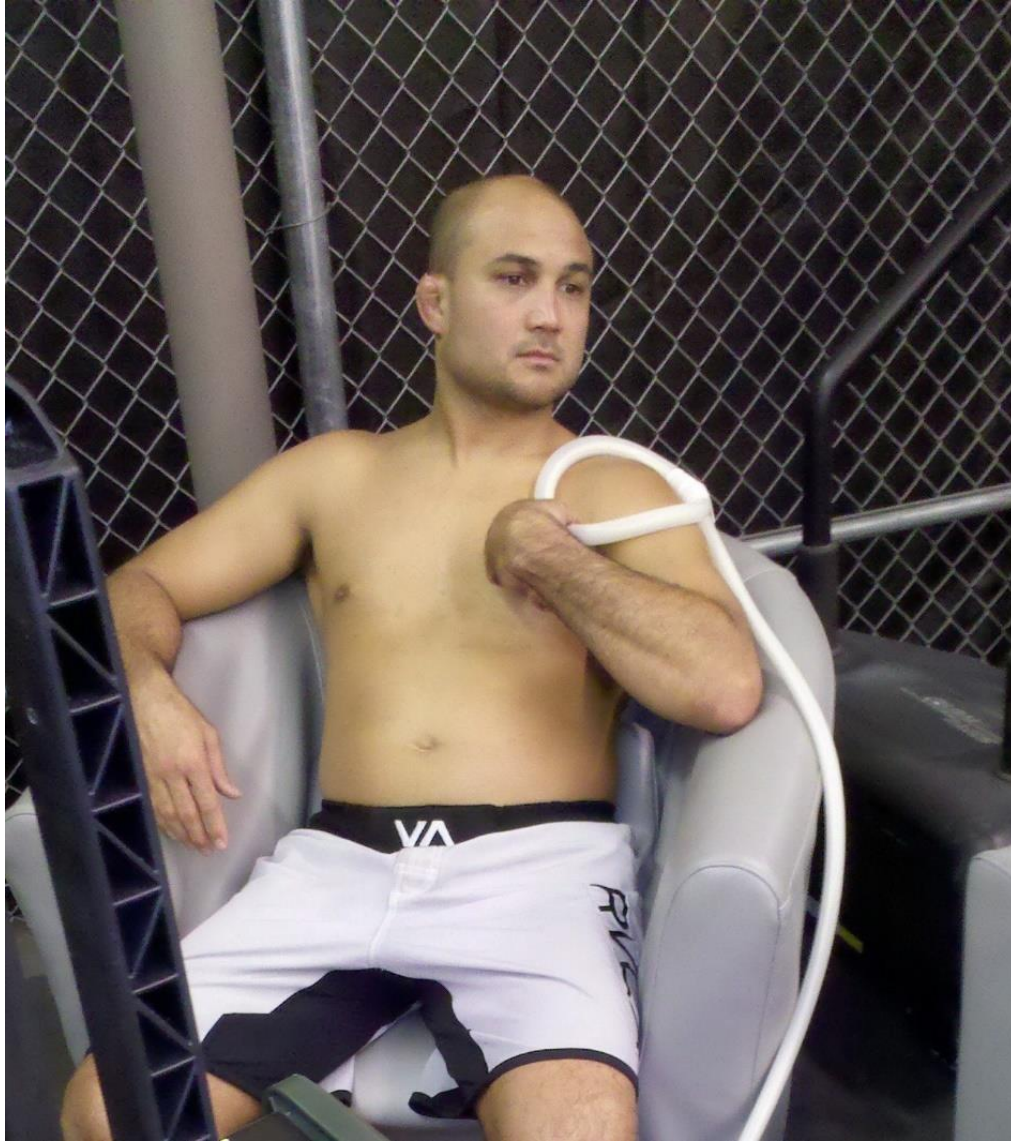
- 58 year old woman foot broken off in car accident able to walk again without a cane 5 months after getting out of hospital: see LinkedIn Post
 - <https://www.linkedin.com/pulse/bionic-woman-power-helping-cells-help-themselves-james-g-comerford>



High-Profile PEMF Athletes

- NFL
- NHL
- UFC
- MLB
- Olympians
- NOTE: photos courtesy Dr. Rey Gubernik (Dr. "G".) Los Angeles

Joint health – MMA Legend B J Penn



Optimal Performance – (Former)
UFC Heavyweight Champion Fabricio Werdum



Injury recovery – BMX Rider Chad Kagy



Injury - Robbie Madison (the new Evil Knievel) @ Motorcross Racer Josh Hill



Wellness – Surfer Nathaniel Curran



PEMF 120 RC Max
Tabletop
spark chamber 19,200 gauss



© PEMF Systems, Inc.

PEMF 120 RC Max
Portable
spark chamber 19,200 gauss



© PEMF Systems, Inc.

PEMF 120

RTI Premium Accessory coil package



©PEMF Systems, Inc.



PEMF 120 RC Max -
Equine
spark chamber 19,200 gauss

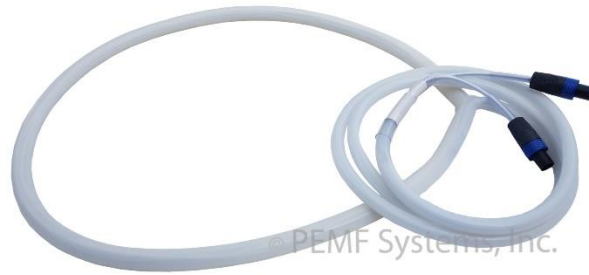


© PEMF Systems, Inc.

PEMF 120 RC Max All-Terrain Standard 2 Coil Accessory package



PEMF 120 RC Max All-Terrain
MANY Optional Coils available
including an extender



RC Digital Max (solid state) PEMF
7000 gauss – longer pulse to gently deliver
more energy. 3 cabinet choices



© PEMF Systems, Inc.



© PEMF Systems, Inc.



© PEMF Systems, Inc.

RC Dual Digital (solid state) PEMF
3500 gauss “ringer” – longer pulse to gently
deliver more energy and 1000 “oscillator” to
provide “2 in 1” PEMF device
First home-based unit “you feel”



© PEMF Systems, Inc.



© PEMF Systems, Inc.

Solid State RC Digital Max CB and RC Dual Digital Standard Accessory coil package



PEMF Applications

- **Coils specifically designed for different areas of the body**
- **Protocols:**
 - Neurological
 - Metabolic
 - Back/spinal
 - Joint
 - General

Neurological Loop Placements



- » Neurological degenerative conditions
- » Athletes getting ready
- » Wellness; those wanting a boost
- » Remove brain fog
- » 5 of 7 placements shown

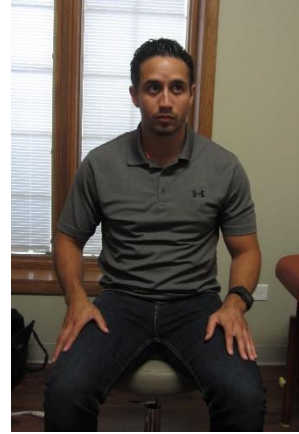
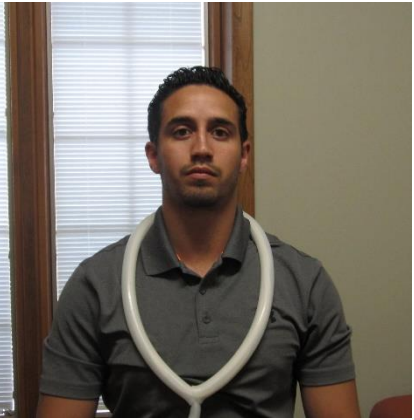


Metabolic Rope Placements



- » **Metabolic conditions**
- » **Wellness**
- » **Neurological degenerative conditions**
- » **Athletes getting ready**
- » **Those wanting a boost**

Metabolic Loop Placements

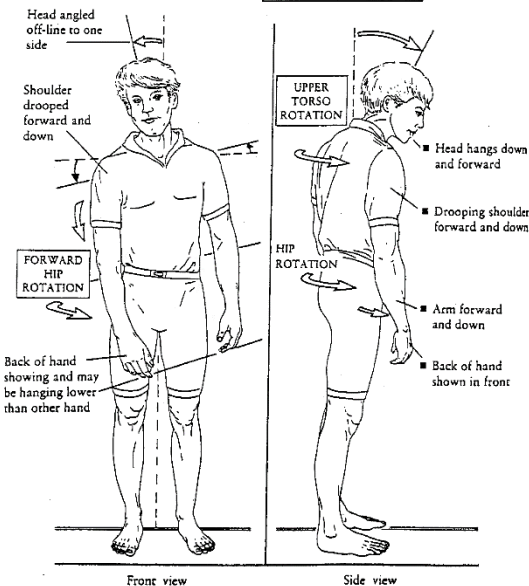
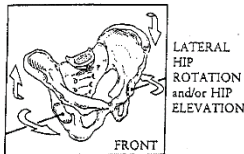


Back and Spinal using PCT*

- General back and joint health
- Back Pain / Range of Motion Issues

*Pelvic Correction Technique:

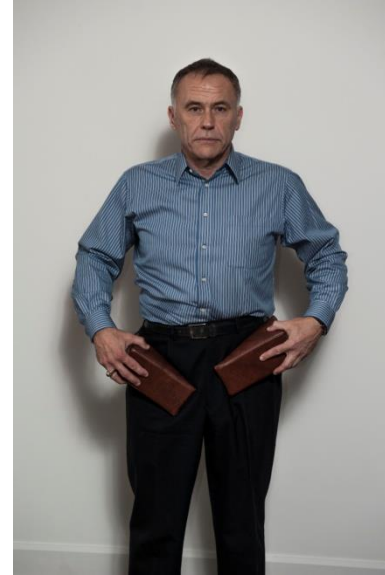
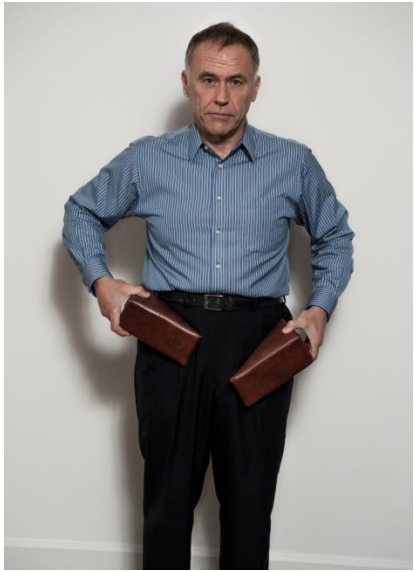
- block pelvis to balance spine
- corrects functional leg length differential



Pelvic Correction Technique



Pelvic Correction Technique



• **Functional short left leg**

Functional Short right leg



Back and Spinal - loop



Joint Injury / Strengthening

