

## **PEMF BRIEF SUMMARY**

High Power PEMF is a Safe, Non-Invasive therapy which harnesses electro-magnetic energy to stimulate the health of individual cells by increasing their voltage. All living things in the universe have energy, including all plants, animals and humans. We have an estimated 37 trillion human cells and 30-40 trillion bacteria in our body. Every animal and human cell has intracellular organelles called mitochondria which produces ATP, or cellular energy. This form of energy is necessary for all life and it what allows the cells to function. ATP is made in a complex chemical process from food, water and oxygen.

If you think of each cell as being like a battery with a voltage, the more energy each cell has the healthier its chemical makeup. Human cells resonate between 1-50 hertz (Hz) under normal, healthy conditions but when damaged, that energy is reduced. In studies, healing cells were found to have a charge of 75 millivolts and healthy cells a charge of 55 millivolts, while sick cells have a charge of 35 millivolts and cancer cells have a charge of 20 millivolts or less. So anything that can raise the voltage of your cells allows them to become healthier. Without cellular voltage & electrical energy, life could not exist.

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### All Living Cells have an Electrical Charge across the Cell Membrane



Less than -20 mV  
Cancers & Cell Mutations

- 40 mV  
Chronic Illness

- 50 mV  
Weakened Cells

- 60 mV

- 70 mV

-100 mV  
Healthy Cells

### **PEMF Therapy is like Re-Charging a drained battery which is not functioning properly.**

Since water represents 60-70% of Cells, water cannot absorb Oxygen without Voltage, so zero voltage is a dead cell, optimal voltage is 60-70 millivolts inside the cell, this allows for

a high concentration of Oxygen to be absorbed. When you can achieve optimum voltage within the cell, you have optimum oxygen levels, then a chain reaction occurs, resulting in better uptake of Nutrients by the cells, and better Detoxification of cells, getting rid of toxins. Example: Putting Racing fuel in your gas tank, but you have sludge in oil pan. You won't have a peak performing vehicle. Once you have achieved good intracellular voltage, the next thing, is it reduced inflammation in injuries as well as overall health. PEMF helps increase cell energy (ATP) production while reducing oxidation and free radicals. PEMF may help strengthened immune function, increased mental clarity, concentration and improve recovery and sleep.

PEMF- Pulsed Magnetic Frequency Therapy re-energizes injured, aging & damaged cells by inducing pulses of electric-magnetic charges into the cells helping to restore them to their normal healthy state. Pesticides, preservatives, pharmaceuticals and other toxins contribute with the negative electromagnetic smog or bad energy from cells phones, computers, florescent lights and other appliances all creating a weaker energy within our cells. The use of PEMF therapy results in increased vaso-dilation and circulation, tissues regeneration, increased immune function, the breaking up of intramuscular adhesion/trauma and decreased inflammation. PEMF increases cell uptake of oxygen and nutrients and removal of cellular waste products enhancing the cells natural metabolic ability to function and repair. The restoration of human cell function is what sets this technology apart from all other devices, it actually helps your cells function better. When using in combination with our other services, we can achieve greater pain reduction and restoration of health, quickly, safely and naturally.

Our Earth has a magnetic field that fluctuates (pulses) and this pulsed electromagnetic field (PEMF) is a key component for life. In fact many researchers refer to PEMFs as "The Fifth Element." Along with food, water, oxygen and sleep, the body needs PEMFs to survive. Unfortunately the Earth's magnetic field is getting weaker and some research suggests that it is almost 100 times less powerful as it was during the time of dinosaurs. Each of the approximately 32 trillion cells in your body vibrates or oscillates. Using the appropriate frequencies, electromagnetic impulses can induce resonant vibrations to stimulate a variety of cellular functions. However, only specific range or spectrum of electromagnetic frequencies are readily accepted by the body (called the biological window) trigger physiological responses. One key function of the cell membrane is to regulate the environment for biological processes inside the cell. This is achieved through selectively allowing water, nutrients, and elements to enter or leave the interior of the cell. One way the cell membrane achieves selective "permeability" is through the establishment of a membrane potential. PEMF normalizes cell membrane potentials. PEMF therapy is similar to charging a battery, which is each and every one of your cells. PEMF stimulates atoms, increases electronic spin, aligns molecules, and generates very small micro-currents that tend to run along

nerve pathways. This leads to an increase in intercellular communication, metabolic processes in part due to increased circulation, oxygenation, alkalization, ATP production (the form of energy used by cells to perform work such as running enzymes), and optimized cell membrane potential. As a result, cells regenerate, oxidative stress and inflammation is reduced, immune responses are more robust, the feel-good endorphins are boosted, depleted adrenal and other endocrine gland functions are restored. Healing, rejuvenation, and regeneration. This is the foundation of PEMF therapy.

## PEMF can help the Following

<u>Reduce</u>	<u>Accelerate</u>	<u>Improve</u>	<u>Balance</u>
Acute & Chronic Pain	Soft Tissue Repair	Cell Regeneration	Immune Balance
Inflammation	Muscle Relaxation	Blood Circulation	Blood Oxygenation
Muscle Tightness	Bone Regeneration	Energy Production	Intracellular Minerals
Platelet Adhesion	Recovery from Activity	Arthritis Mobility	Endocrine Function

This FDA approved therapy has been in use for many years in Europe and in the NASA space program. This technology is being widely used in the equine profession, by professional sports teams, elite athletes in the NFL, MLB, NHL, NBA, Olympians, and now the US Navy Sports Medicine and US Marine Recon.

Pulsed Electromagnetic Therapy is a safe and viable method for reducing pain, inflammation and improved cell health for wellness and anti-aging. Research suggests that electromagnetic fields can influence cell membrane permeability in a way that reduces the severity of pain. Best of all, it doesn't involve using harmful and addictive medication.

\*Caution: DO NOT USE PEMF – if Pregnant, history of seizures or have any electrical implanted device. Keep Cell Phones, Watches, Keys away. Remove anything with a battery.

PEMF is the most technically advanced low, medium and high power PEMF units to meet your clinical needs, all with Dual Pulse technology to quickly reduce pain, swelling and inflammation, while improving joint range of motion for the quickest results.