

## Pulsed Electro-Magnetic Field Therapy – Powerful Therapy for Your Body

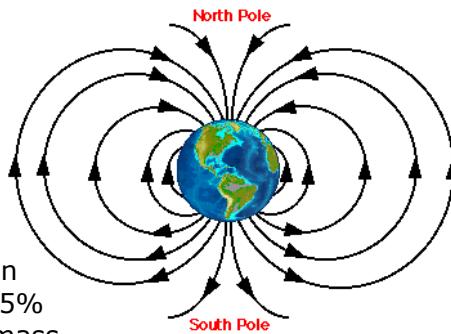
The human body is extremely complex and wonderfully made. Everybody knows that the body needs the nutrients in food as well as water, oxygen in the air we breathe along with adequate sleep. Most of us, however, don't realize that life cannot be sustained without the magnetic forces that surround us and permeate our body. Disturbances in these magnetic forces are resulting in pain, sickness and disease and we are pleased to announce that we have **Pulsed Electro-Magnetic Therapy** available in the clinic, a tool that can greatly improve the quality of your life.

**Pulsed Electro-Magnetic Therapy** is a revolutionary approach that produces healing at the cellular level. Pulsed Electro-Magnetic Therapy bathes the cells of the body with the electro-magnetic frequencies of health. Pulsed Electro-Magnetic Therapy creates bio-currents which improve the flow of blood and oxygen to the tissues and the flow of ions and nutrients into the cells. It puts energy back into the body by exciting the mitochondria (the cells' power producers) and the extra energy produced will be stored in the body from 4 hours to 10 days, enabling your body to use it as it needs it.

Over the past 40 years scientists from around the world have investigated the effects of Pulsed Electro-Magnetic Therapy (**PEMF**) on nearly every organ and every disease in the body, resulting in over 2,000 published clinical studies which show the many benefits provided by PEMF.

### Here are few of the benefits provided by Pulsed Electro-Magnetic Therapy:

- Stimulates pain relieving endorphins
- Repairs damaged and diseased tissue
- Reduces pain, swelling and inflammation
- Improves cell hydration, or water content
- Repairs torn tendons and fractured bones
- Improves energy, or ATP production, in cells
- Increases cellular oxygen absorption up to 200%
- Stimulates the mood improving neurotransmitter Serotonin
- Reduces the enzymes that create inflammation by up to 75%
- Works as a catalyst to increase bone density and muscle mass
- Improves circulation by opening and dilating the arteries and capillaries
- Improves calcium transport and absorption in bones and cartilage in joints
- Causes the pH to become more alkaline, allowing for better oxygen uptake
- Enhances the synthesis of proteins in cells, restoring intracellular bioenergetics
- Helps the cells and organs to detoxify and release toxic chemicals and heavy metals.
- Improves ion exchange at the cell membrane, thereby increasing oxygen utilization for damaged or diseased tissues



Since Pulsed Electro-Magnetic Therapy is effective at improving the cellular conditions associated with pain, it has been used successfully for a range of muscle and joint problems, both acute and chronic, including:

- Neck pain
- Tennis elbow
- Shoulder pain
- Cervical pain
- Low back pain
- Plantar fasciitis
- Acute ankle sprains
- Carpal tunnel syndrome

- Repetitive strain injuries

Dr. Bassett (researcher at the Bioelectric Research Center of Columbia University) has studied pulsed magnetic fields on the cellular function of connective tissue and function and concludes with:

*"A wide variety of challenging musculoskeletal disorders has been treated successfully over the past two decades. These include nerve regeneration, wound healing, graft behavior, diabetes, and myocardial and cerebral ischemia (heart attack and stroke), among other conditions. Preliminary data even suggest possible benefits in controlling malignancy. (Cancer)"*

### **Other Conditions that benefit from Pulsed Electro-Magnetic Therapy**

Published data have reflected therapeutic pulsating magnetic fields to be associated with better outcomes involving wound healing, tissue degeneration, pain, swelling, spasm, inflammation, mood, strength and mobility. Favorable outcomes have been published in regard to patients with conditions involving:

### **PTSD**

- PMS
- Burns
- Ulcers
- Edema
- Cancer
- Arthritis
- Sprains
- Diabetes
- Hepatitis
- Shingles
- Infertility
- Bronchitis
- Tendonitis
- Back pain
- Spinal pain
- Parkinson's
- Alzheimer's
- Pancreatitis
- Joint disease
- TMJ disorders
- Eye problems
- Endometriosis
- Painful menses
- Nerve damage
- Bone Fractures
- Spinal stenosis
- Sinus problems
- Acne & Eczema
- Multiple sclerosis
- Sexual dysfunction
- Chronic pelvic pain
- Migraine headaches
- High blood pressure
- Arterial insufficiency
- Stress management
- Raynaud's syndrome

- Peripheral neuropathy
- Depression and Anxiety
- IBS and Chiron's disease
- Enhancing hair restoration
- Muscle strains and injuries
- Osteopenia and Osteoporosis
- General energy enhancement
- Liver diseases including Hepatitis
- Insomnia and other sleep problems
- Amyotrophic Lateral Sclerosis (ALS)
- To help joint replacements heal better
- To shorten recovery time after surgery
- Peripheral artery disease and neuropathy
- Coronary heart disease and congestive heart failure
- For pain anywhere in the body – joints, muscles, neck, shoulders, back, etc.

**Note on Pain Therapy:** Keep in mind, it is important to establish the underlying cause of pain, and not simply mask it with PEMF. Masking the pain of a rupturing appendix for example would not be a wise thing to do!

The list of contraindications for using Pulsed Electro-Magnetic Therapy is short: PEMF is not recommended for pregnant mothers, and those with implanted pacemakers.

### **What about Cancer?**

The cellular conditions that allow renegade cancer cells to grow are in some ways similar to the painful inflammation and swelling of muscles and joint pain, but more complicated because of the primitive metabolism of cancer cells. Every cell in the body is a tiny battery with a '*trans-membrane potential*', or TMP, which is a *measurement of the electrical charge of the cell*. **In order for a cell to bring nourishment in and let metabolic waste out, the cell membrane potential needs to be fully charged.** In cancer cells, the cell voltage drops from a normal of 70 millivolts to less than 40 millivolts. At this low level of cell energy only five substances can pass in or out of the cell: water, glucose, potassium, (protects against certain cancers) cesium, (protects against many types of cancer) and rubidium. (Alkaline element) Oxygen cannot enter the cell and this can cause cancer.

In 1937, Dr. Albert Szent-Gyorgyi won the Nobel Prize for his discovery that cancer cells obtain energy for growth from anaerobic or fermentative metabolism - using sugar without oxygen. Actually, cancer cells cannot grow in the presence of oxygen. In fact, many cancer therapies focus on re-establishing oxygen based metabolism within cancer cells which will cause them to undergo programmed cell death, or apoptosis. Pulsed Electro-Magnetic Therapy improves the trans-membrane potential of cancer cells, helping them to activate aerobic metabolism as well as reduce inflammation, improve blood flow, and increase cellular oxygen absorption by up to 200%.

### **How does Pulsed Electro-Magnetic Therapy work?**

The explanation of a very complex process will be made as easy to understand as possible:

The earth has magnetic North and South poles and an invisible magnetic field that surrounds the earth and permeates the atmosphere.

The earth's invisible magnetic field is everywhere, it saturates the space we live in and it powers metabolism in the human body. The human body is electro-magnetic in nature. The body is driven by a nervous system powered by *electricity* and *magnetism*. These two forces produce electro-magnetism, the fundamental energy of the human body and the force that enables the trillions of cells within the body to perform the functions they were designed for.

The body contains about 100 trillion cells and each of them depends on the flow of ions, or energy, in and out of the cell. This dance of electromagnetic energy governs cellular energy production which in turn allows the organs in the body to orchestrate the complex wonder in our body we call life. **Life and metabolism cannot be sustained without the earth's magnetic field.** This magnetic field is growing weaker with time, resulting in a lowering of magnetic potential within the cells of the body. The electrical and electronic pollution we are exposed to in the world today lowers magnetic potential within the cells of the body to an even greater degree.

The result is greatly reduced cellular '*trans-membrane potential*' or **TMP**. Every cell in the body is a tiny battery with a trans-membrane potential, or TMP, which is a measurement of the electrical charge of the cell. In order for a cell to bring nourishment **in**, and let metabolic waste **out**, the cell membrane potential needs to be fully charged. Poor nutrition, together with chemical and electrical pollution, causes damaged and diseased cells to have abnormally low TMP, **up to 80% lower than healthy cells**. This results in greatly reduced metabolism and in particular, impairment of the *sodium-potassium pump* that moves waste products **out** of cells, and nourishment **into** cells. Impaired sodium-potassium pump activity causes unhealthy, inefficient and 'clogged-up' cells which results in edema (cellular water accumulation) and a tendency toward fermentation within cells, a condition known to result in a host of chronic degenerative disease conditions, including cancer.

**Pulsed Electro-Magnetic Therapy** improves trans-membrane potential and increases the circulation across cell membranes, causing the intracellular sodium/potassium exchange to take place more efficiently. Toxins are moved out of cells faster, and nutrients are quickly moved into cells. **PEMF helps to 'unclog' cells and helps to restore normal cell metabolism and cell healing.** Pulsed Electro-Magnetic Therapy 'recharges' the cells of your body like you would recharge a battery that's run down. 85% of people notice improvement in just one therapy session.

While pulsed magnetic frequencies will not cure heart disease, or diabetes, or arthritis or cancer, etc., they can make a huge improvement in symptoms and overall function within the cells of your body. **PEMF should always be used in conjunction with healthy diet and lifestyle habits.**

If you are considering magnetic field therapy for a specific health condition, you should realize that all of the actions of magnetic fields are happening simultaneously and your health will benefit in many ways without you even realizing it or expecting it. Minor imbalances in cells in individual parts of the body can be very easily rebalanced before they become an obvious problem. Don't wait until you have a significant health issue before you resort to PEMF. If you start using Pulsed Electro-Magnetic Therapy when you are in your 40's for example, many of the problems that typically beset you when you reach your 60's or 70's can be avoided. If your problem took a long time to develop, it will take a series of Pulsed Electro-Magnetic Therapy sessions to provide relief.