


## What Is PEMF?

**Pulsed Electromagnetic Field Therapy, better known as PEMF, is a safe and natural way to literally recharge your body so it can travel the path to better health.**

PEMF targets your body at a cellular level to stimulate cell metabolism and improve your health. Numerous disorders, diseases and injuries benefit from PEMF treatments. And there are none of the harmful side effects commonly associated with prescription drugs and medical procedures.

PEMF is a completely safe and natural form of treatment, proven in countless scientific studies to provide astonishing results. Everyone, everywhere, can benefit from PEMF. Even animals.

PEMF works like a magical solution.

## How Does PEMF Help?

PEMF emulates the Earth's natural magnetic field to improve circulation and cell metabolism. It easily penetrates the body using a low frequency pulsed electromagnetic field. Our body is nurtured by these fields, and our cells regain their positive charge.

Our TeslaPEMF devices emulate the natural magnetic fields flowing through us every day. A healing, life-giving energy. TeslasPEMF is the natural and healthy choice.

## NASA's Findings on PEMF

Dr. Goodwin, Ph.D. of NASA, published an experimental study in which he investigated the effect of electromagnetic fields on neuronal cells.

Neuronal cells are responsible for transmitting electrical signals throughout the body. Your body uses them to move your muscles as they send messages from your brain to the muscles, giving them the instruction to move. These cells can be damaged due to accidents or when a patient undergoes surgery.

NASA conducted a study to find out if it was possible to stimulate the regrowth of neural tissue with electromagnetic fields and improve electrical conductivity between the neuronal cells. They discovered electromagnetic field stimulation improved regrowth by an astonishing 250% to 400%.

## The Benefits of PEMF

**Here are just a few of the ways PEMF promotes good health:**

- **Your body's natural endorphins are stimulated, providing effective pain relief for arthritis and joint pain, fibromyalgia, back pain, and ankylosing spondylitis.**
- **Parkinson's, Alzheimer's, and Stroke patients all benefit from the healing energy of PEMF.**

- **People with migraines, insomnia, stress, anxiety and phobias usually find a notable reduction in symptoms.**
- **PEMF is perfect for stimulating bone regeneration, improving bone density, and helping the recovery of osteoporosis, arthritis, osteoarthritis, and fractures.**
- **Soft tissue such as muscle, ligaments and skin heal quicker.**
- **Nerve pain issues are reduced or eliminated entirely.**

PEMF is one of the safest ways to give your cells extra energy to overcome health issues. This is why NASA uses PEMF to treat astronauts after their return to Earth.

In a zero gravity environment, astronauts lose muscles tissue. Their bone density also reduces significantly. They are usually unable to walk unaided, and must be carried from their landing craft upon their return to earth.

Adding further to their woes, the Earth's natural health-giving magnetic field does not extend into space. When astronauts return, they usually suffer from fatigue, depression, and many other symptoms.

The human body is like a battery, and PEMF is the ideal way to revitalize, rejuvenate, and recharge. If PEMF is good enough for NASA, it is good enough for you!

## Electricity in Your Body

Your body has its own magnetic field. It's made up of around 100 trillion cells, all of which are powered by electrical energy and influenced by the Earth's magnetic field.

A person in good health has a charge of 70 to 100 millivolts. Aging, stress, poor diet or the environment can reduce this voltage.

It has been found that a person with a cell voltage of 30 to 50 millivolts is likely to suffer from a chronic illness, and cancer is seen in people with less than 15 to 20 millivolts.

Consider this important fact: the heart does not get cancer. And for good reason. It is the most positively charged organ in your body.

The cells in your body are like miniature engines, powered by the nutrients from the food you eat and the oxygen you breathe. The electrons stored in your mitochondria provide the ignition, without which, your body's cells begin to die. If enough cells die, your organs no longer function properly, and you develop a chronic and life-threatening illness.

Like a car without fuel, without energy, our bodies cannot function correctly.

## What Happens When Your Cells Lose Their Energy?

Our cells have a positive charge, and a loss of this charge can cause major health problems.

Blood cells have very important roles to play. They transport nutrients and oxygen around your body, whilst absorbing toxins or enzymes from your major organs. A positive charge prevents blood cells from clumping together, giving greater surface area allowing each cell can perform at full potential.

Without a positive charge, blood cells clump together. If more than eight blood cells clump together, their combined surface area is halved. So only half the work can be done.

Clumping of blood cells restricts flow through our narrow capillaries, and vital organs are not supplied with sufficient oxygen and nutrients. Waste products begin to accumulate, and our bodies become weak.

Bacteria, parasites and viruses thrive when your body is unable to defend itself, resulting in the manifestation of disease, ultimately ending in death.

## Is The PEMF Device Approved by The FDA?

Quite often, manufacturers boast that their PEMF devices are FDA registered and make this as an important selling point. In fact, there are two services that the FDA provides when it comes to PEMF devices – FDA registration and FDA approval. For common purchasers, it is easy to confuse PEMF registered and PEMF approved devices. So, manufacturers make use of this and hope that the customers will assume FDA registration as a form of reassurance.

However, FDA registration is different from FDA approval. If a PEMF device is FDA registered, it only means that the FDA is aware of the fact that the item is being imported into the USA. Actually, all medical devices imported into the USA need to be FDA registered. So, it is fake marketing that many manufacturers claim that their PEMF devices with FDA registration are better than others. FDA registration is by no means a guarantee of safety, efficiency, or quality.

Certainly, there are some FDA – approved PEMF devices in the market. FDA approval can be earned by proving that a PEMF device can be used to treat a specific health condition successfully. In addition, this device needs to undergo a rigorous testing process to prove that its benefits far outweigh its risks. However, FDA approval is not a bulletproof guarantee of quality. The FDA approves many drugs and medical devices that subsequently have to be withdrawn for safety reasons. That being said, with these FDA-approved PEMF devices, we can make sure that the FDA does approve the therapeutic use of pulsed electromagnetic fields for many health conditions.

In 1979, the FDA approved PEMF Therapy for the healing of nonunion fractures.

In 1998, the FDA approved PEMF Therapy for urinary incontinence and muscle stimulation.

In 2004, the FDA approved PEMF Therapy for cervical fusion patients at high-risk of non-fusion.

In 2006, the FDA approved PEMF Therapy for treatment of depression and anxiety.

In 2011, the FDA approved PEMF Therapy for treatment of brain cancer.

Plus many more are being added!

The medical community is becoming increasingly aware of the healing powers of PEMF Therapy. On October 13th, 2015, the FDA acknowledged the safety and effectiveness of PEMF therapy by reclassifying PEMF devices from Class 3 category to Class 2. It means that PEMF devices are safe for private individual use.

Furthermore, most manufacturers do not want to earn FDA approval mainly for two reasons. On the one hand, it is very expensive to seek FDA approval. On the other hand, a PEMF device approved by the FDA needs to be condition-specific. However, PEMF therapy can help with a wide range of health conditions, so many manufacturers and patients believe that FDA approval means a limitation to their benefits.

## What Are the Contraindications of PEMF Therapy and PEMF Devices?

Pulsed Electromagnetic Field (PEMF) therapy is a safe and non-invasive method for pain relief, wound healing, tissue regeneration, improving mental health, and more. The magnetic field helps the cells recharge, detoxify and breathe.

Although the PEMF therapy is quite safe and healthy, people still express some concerns, and need an accurate evaluation of its safety prior to actual execution of this therapy. While few of these PEMF contraindications are serious, they must be predicted earlier and proper implications must be conveyed to the users. In this blog, I will introduce you 5 contraindications which should be considered for PEMF therapy and PEMF devices.

### Implanted Electrical Devices

The only absolute prohibition for use of a PEMF device is placing an active applicator over implanted electrical devices, including cardiac pacemakers or cardiac defibrillators, deep brain stimulators, gastric stimulators, insulin pumps, foot drop implants, cochlear implants, and other similar devices. These devices are all battery operated. Direct magnetic field exposure can shut them off or otherwise interfere with their function, as would happen if they were used inside an MRI. Generally, these devices are now protected against magnetic fields, but we advise seeing your trained medical professional just to be sure.

### Pregnancy

With little research done in this area, PEMF therapy has not been proven to be safe for pregnant women. Pregnant women often work around MRI machines, and in some circumstances get MRIs themselves. These machines produce very strong magnetic fields. However, to ensure full security, we do not recommend pregnant women using PEMF therapy and PEMF devices.

### Organ Transplant

PEMF devices are contraindicated for patients with organ transplants. These people take immune suppression medications to prevent fatal organ rejection. The human body is like a battery, and PEMF therapy is the ideal way to revitalize, rejuvenate, and recharge. It means that PEMF devices can enhance the immune system, and may actually stimulate a more aggressive organ rejection process.

### Hyperthyroidism (and other over-active glands)

PEMF therapy is not recommended for people suffering from hyperthyroidism or other over-active glands. It may over-stimulate these glands if used excessively at high intensities. This could lead to aggravation and fatigue of the glandular function.

### Implanted metals

People with implanted metals, such as joint replacements, dental implants, mechanical heart valves, metal stents, or metal staples in blood vessels, should use PEMF devices with caution or with professional guidance. Extremely high intensity PEMF devices could stimulate the nerves in the area of the metal, causing sharp pain. Very high intensity PEMF devices may also add to the shear stress of metal clips placed in or near blood vessels.

That's why (TeslasPEMF) machines can be set to choose low intensity magnetic fields. It is a deep-seated, but flawed belief that if one pill is good, two must be better. In a similar vein, lots of people believe that high intensity is better than low intensity. Actually, low intensity PEMF devices use small forces to stimulate the body's own healing and repair systems. They have no side effects and are safe to use at home.

## What Are the Differences Between Therapeutic PEMF and Harmful EMF?

The growing and popularity of 5G technology also raise the discussion about EMF safety and EMF protection. According to researches, harmful Electromagnetic Field (EMF) can affect your body's nervous system function and cause damage to cells. Cancer and unusual growths (such as tumor and hyperplasia) are the most common symptoms of very high EMF exposure.

However, Pulsed Electromagnetic Field Therapy, better known as PEMF, is a safe and natural way to literally recharge your body so it can travel the path to better health. **Therapeutic PEMF targets your body at a cellular level to stimulate cell metabolism and improve your health. Numerous disorders, diseases and injuries benefit from PEMF treatments. And there are none of the harmful side effects commonly associated with prescription drugs and medical procedures.**

One of the most common confusions for people researching PEMF therapy is that it is associated with harmful EMF that are present within the environment. In fact, there are many differences between harmful EMF and the therapeutic EMF generated by PEMF devices. In this blog, we will introduce you the main differences between therapeutic PEMF and harmful EMF from two aspects.

### Wavelengths and Frequencies

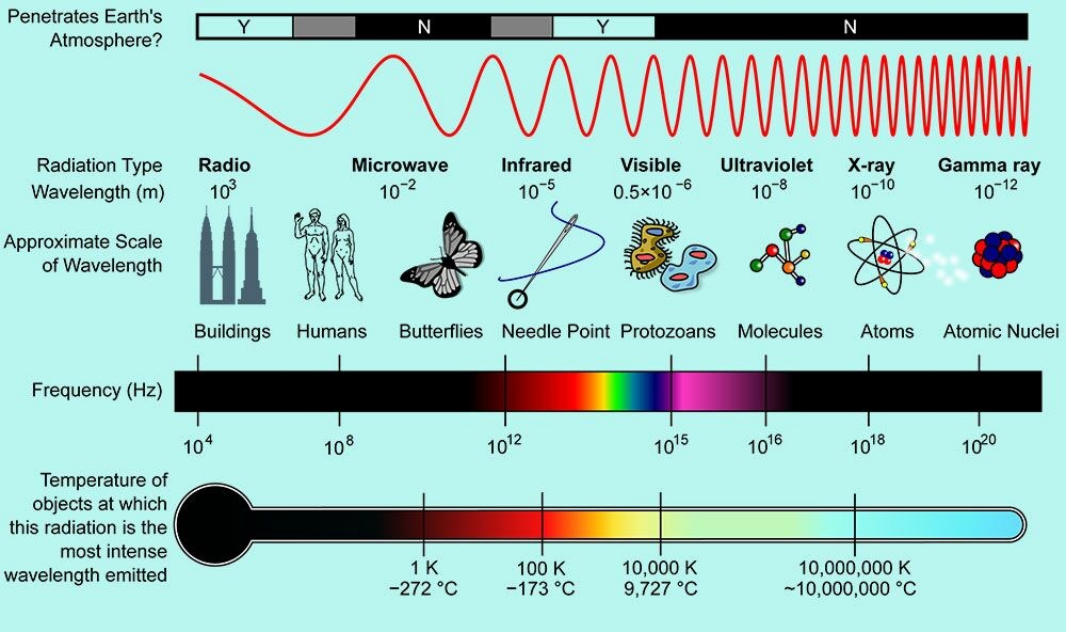
In various research studies, harmful EMF has been recognized to have significantly higher frequencies and lower wavelengths than therapeutic PEMF.

Almost all PEMF devices in the market use low frequencies and long wavelengths, ranging from 1 to 10,000 Hertz. The wavelength is between 100 million meters (more than 62,000 miles) to 10,000 meters (about 6.2 miles). A very long wavelength and low frequency can help therapeutic PEMF completely penetrate the body and efficiently support the body's natural functions.

In comparison, a microwave, which produces harmful EMF, use frequencies in the range of 100,000,000 Hertz. The corresponding wavelength is around 1 meter (about 3 feet).

Because of the shortness of the wavelengths, microwave tends to penetrate relatively superficially into the body and then be absorbed, creating various levels of heating. Obviously, heating is one of the major uses of microwave ovens in our homes. However, this kind of heating is harmful to the human body. In contrast, most therapeutic PEMF systems with low frequencies and long wavelengths will not induce damaging heating actions in cells or tissues.

Confusion and concern often stem from power grids, using what appears to be PEMF level frequencies. Although the frequency range of power grids is between 50 to 60 Hertz, the source is regularly polluted with surges of dirty electricity. It means that the power grids actually contain frequencies significantly higher than the intended 50 to 60 Hertz. Fortunately, PEMF devices, which with various levels of filtering inside, can remove surges that come from the household electrical outlets used to power the device.




## Ionizing and Non-ionizing Electromagnetic Radiation

Radiation is the emission or transmission of energy in the form of waves or particles through space or through a material medium. Sunshine is one of the most familiar forms of radiation. Another common radiation is electromagnetic radiation, such as radio waves, microwaves, infrared, visible light, ultraviolet, x-rays, gamma radiation, ELF and etc.

Based on the radiation's capability of ionizing atoms and disrupting chemical bonds, electromagnetic radiation can be further classified into two types, including ionizing and non-ionizing electromagnetic radiation.

Ultraviolet and high frequencies (such as x-rays or gamma rays), which produce harmful EMF, are ionizing electromagnetic radiation. They may induce the cell transformation and then produce cancers, such as the skin cancers squamous cell carcinoma and melanoma.

ELF (also called Extremely Low Frequency) is one of the representatives of non-ionizing radiation. Most PEMF devices, using therapeutic PEMF, usually produce frequencies in the Extremely Low Frequency range (with a frequency at or below 3,000 Hz). As a result, these PEMF devices don't carry enough energy to disrupt chemical bonds. The energy of them can excite electrons into a higher energy state, increasing charge in the tissues, through the process of inductively coupled electrical stimulation (ICES).

**As has been shown with use over five decades and by millions of people, therapeutic PEMF, which is different from harmful EMF, is a safe, non-invasive and painless treatment for various health issues. PEMF can re-balance and restore body functions and health. In other words, daily use of PEMF can also help significantly to offset the negative effects of undesirable EMF.**

## What are Side Effects of PEMF Therapy?

Pulsed Electromagnetic Field (PEMF) therapy is a safe and non-invasive method for pain relief, wound healing, tissue regeneration, improving mental health, and more. **The magnetic field helps the cells recharge, detoxify and breathe.**

Now, more and more people are learning about PEMF therapy, and are starting to use this modality of therapy. It is important to learn about the safety and side-effects of PEMF therapy.

## How safe is PEMF therapy?

**PEMF therapy has a history of more than 60 years, and thousands of peer-reviewed studies have proven its safety and effectiveness.** However, PEMF is not widely used, because it is not a drug, and it is not easy to profit from its use.

The primary concern of PEMF safety is intensity level. As we all know, low intensity devices are safer than high intensity devices. But even high intensity PEMF devices have proven to be safe if used for short durations. Immensely powerful PEMFs are produced by MRI machines. Most MRI machines produce intensities between 15,000 and 30,000 Gauss. The diagnostic magnetic fields produced by MRI are non-ionizing. Although the guidelines recommend pregnant women undergo MRI only when necessary, these high intensities have shown no measurable effect on an unborn child, and are safe even on sensitive tissues in utero.

## Side Effects of PEMF Therapy

**PEMF therapy has no known adverse side effects, and is considered quite safe.** But since it has such a wide array of actions within the body, it is common to experience some discomfort, especially when treatment has just begun.

During the treatment, all cells exposed to a pulsed magnetic field are being mildly stretched and relaxed. In the first 10 minutes of exposure, the increase of oxygen in the cells can also stimulate the exit of toxins. This may cause mild side effects such as nausea, headaches, fatigue and muscle aches. For this reason, elderly, frail, or sensitive individuals are suggested to begin with low intensities.

PEMF side effects are mild and temporary, and can be eliminated by just taking a break from treatment. When your body adapts to PEMF therapy, the side effects usually diminish and halt.

**It is easy to reduce the side effects of PEMF therapy. Drink plenty of pure water before and after exposure to the pulsed magnetic fields. This helps your body's toxin-removal system and maintains optimal cellular hydration.**

## TeslasPEMF devices are absolutely safe.

TeslasPEMF is committed to providing the safest and best quality PEMF device to help people get the best results during treatment.

There are many PEMF devices on the market. They usually focus on brute force strength, often giving specifications intended to impress prospective customers. But cells are exceedingly tiny, and do not need a hammer force to heal. If you have severe chronic pain or physiological problem, it's better to start with lower intensity PEMF therapy. To safely stimulate healing, the magnetic pulse must also be small. If the magnetic pulse is generated in the correct shape and pattern, healing is faster and safer. TeslasPEMF includes a low intensity PEMF frequency option, and is easily adjustable, so users can easily start using the PEMF device at the power level which suits them.

TeslasPEMF devices have been optimized for long treatments. Most existing PEMF units only apply a single pulse and their pulses are in the same direction. Your body may feel discomfort when the cells become overcharged. The TeslasPEMF device gently applies healing pulses, and reverses or pulses the signal to maintain safe equilibrium. Your body doesn't become magnetically charged. **The TeslasPEMF product is absolutely safe to use. There is no "maximum dosage" or hidden danger through over-use.**

PEMF therapy is considered one of the safest technologies, with a proven history. PEMF can be applied easily at home by almost everyone. The TeslasPEMF device is even safer than most existing, less frequency option, PEMF devices in the market, and can be used with confidence.

## Helping Health Conditions with PEMF Therapy

Pulsed Electromagnetic Field Therapy, better known as PEMF, is a completely safe and natural form of treatment, proven in countless scientific studies to provide astonishing results. Everyone, everywhere, can benefit from PEMF. Even animals.

**PEMF therapy is not just for a specific condition, however, it is more as an optimizer for the body's natural functions of self-healing and self-regulation.** Numerous disorders, diseases and injuries benefit from PEMF treatments, such as arthritis, cell regeneration, circulation, skin wound healing and pain... **And there are no harmful side effects commonly associated with prescription drugs and medical procedures.**

**Click the diseases you are seeking help for at the over 2,500 frequencies listing at** http://TeslasPEMF.com , we will provide the suggestions with you to solve health issues with PEMF therapy. We will update every week. If you can not find an answer to your health issues there, please send us an email at info@TeslasPEMF.com and we'll get right back to you and give you our advice.


## Contact TeslasPEMF / MDA, LLC – Call: 1-706-717-0591

## Email: Info@TeslasPEMF.com

## Web: http://TeslasPEMF.com and http://ParaCrush.com


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