



Electromagnetic Field therapy (PEMF therapy)

PEMF Therapy stands for Pulsed Electromagnetic Pulse Therapy. It works with the body to enhance electrical cell potential in cells which can enhance healing. We find that in older pet's or those who have been ill for extended periods of time, supplements alone can take longer to work as the body has to digest and process them to achieve their ultimate effect before the target organs can even benefit from their usage, extending or blocking time to healing. PEMF, which was developed by NASA, can enhance the speed of which our animals heal by enhancing cell function. It restores the disruption of the electrical current to its normal state therefore enhancing function and indirectly healing. We find due to the excessive electrical stress our bodies are now affected by such as EMF and toxic environment this therapy is even more warranted. This technology was originally designed to help those post fracture repair as well as astronauts and animals but is now used for many more conditions with great success. Read the attached article to learn more about it.

1. PEMF machines work in conjunction with the body's own recovery processes to relieve pain by restoring cells' ability to function efficiently. Our skins, bones, and organs are composed of tiny cells. The membrane of a healthy cell has both positive and negative charges that are required for the exchange of potassium, sodium, and calcium ions. When cells become distressed from disease, trauma or toxins, they lose their ability to function efficiently. PEMF restores the positive and negative charges in the cell, enabling it to perform its natural function while speeding tissue recovery.

2. PEMF machines operate on different frequencies and this is what often sets them apart. Everyone's body responds differently to electromagnetic waves and different frequencies target specific tissue types. PEMF machines emit a unique series of Pulsed Electromagnetic Fields at precise frequencies targeted on four key tissue types resulting in increased circulation, reduced inflammation, improved mobility, and relieved pain.

3. Bodies require electricity to send signals through the body and to the brain. PEMF therapy works effectively to re-align the electric potential of our cells. Resting cells are negatively charged on the inside, while the outside of the cell is more positively charged. The flow of charges across the cell membrane is what generates electrical currents. When a cell is stimulated, it allows positive charges to enter the cell through open ion channels. The inside of the cell then becomes more positively charged, which triggers further electrical currents that can turn into electrical pulses, called action potentials. Our bodies use certain patterns of action potentials to initiate the correct movements, thoughts and behaviors. A disruption in electrical currents can lead to illness. Pulsed Electromagnetic Field therapy (PEMF) can restore the disruption of the electrical current to its normal state, therefore, helping restore the cell.

4. Unlike x-ray machines, PEMF wave frequencies are completely safe. Electric and magnetic fields (EMFs) are invisible areas of energy, often referred to as radiation, that are associated with the use of electrical power and various forms of natural and man-made lighting. EMFs are typically characterized by wavelength or frequency into one of two radioactive categories:

- Non-ionizing: low-level radiation which is generally perceived as harmless to humans
- Ionizing: high-level radiation which has the potential for cellular and DNA damage

5. PEMF therapy has a 60+ year long track record of clinical success. PEMF therapy has 60+ years of clinical success in relieving pain at the source by pulsing electromagnetic waves at precise frequencies, speeding the body's recovery at a cellular level. PEMF therapy was approved by the FDA in 1979 specifically for the healing of nonunion fractures, which came after a Columbia University study that was encouraged by NASA, and has recently gained attention in the U.S. The value of pulsed electromagnetic field therapy has been shown to cover a wide range of conditions, with well documented trials carried out by hospitals, rheumatologists, physiotherapists, and neurologists. (

6. PEMF technology was developed after WWII (though its origins go back much further) and was researched and adopted by NASA. PEMF therapy actually originated from NASA's research involving the benefits of pulsed electromagnetic fields on astronauts for fatigue, depression, bone loss and other symptoms following even short trips to outer space. Scientists discovered that the cause was due to astronauts being without this beneficial natural field emanating from our Earth. (source). NASA did a 4-year collaborative study on the efficacy of electromagnetic fields to stimulate growth and repair in mammalian tissues.

*the above is an excerpt from Oxford Medical Ltd