

MW MAGNA WAVE

High Voltage Pulsed Electro-Magnetic Frequency Therapy



MagnaWave PEMF is a Pulsed Electro-Magnetic Frequency delivered through a coil placed on your horse by a Certified Practitioner to increase blood oxygenation, reduce inflammation and pain, stimulate acupuncture points and promote a happy, healthy horse.

- Relieves muscle soreness and pain
- Improves performance
- Increases range of motion
- Reduces inflammation
- Immediate, drug-free results
- Accelerates healing time of fractures and wounds



All energy is electromagnetic in nature, and nothing happens in the body without an electromagnetic exchange between cells. We are all familiar with the electrocardiogram (EKG) and electroencephalograph (EEG) tests, which measure the electromagnetic activity of the heart and brain, respectively. When electromagnetic activity ceases, life ceases.

Electromagnetic energy controls our chemistry. Disruption of this energy in cells causes impaired cell metabolism, and if

our cells are not healthy, our body is not healthy, in whole or in part.



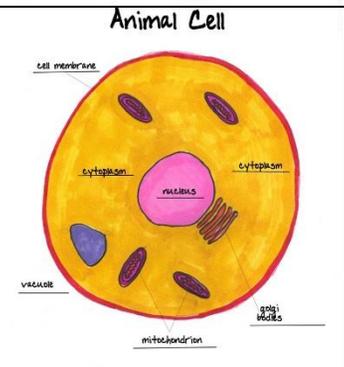
Okay, so...How does it work??

The “action” of a cell occurs at the membrane, which has switches connecting directly to the nucleus (like your keyboard controls what your computer hard drive is doing). As a cell becomes sick, the voltage in the interior of the cell rises. In all sick cells, the membrane electric potential is significantly less negative than normal. This signifies greatly reduced metabolism and energy production, since it takes a lot of the cell’s energy to maintain that charge.

WHAT ARE SOME BASIC CELL FUNCTIONS, AND HOW DO MAGNETIC FIELDS FACILITATE THEM?

Some of the basic actions of a cells are to:

- eliminate waste
- repair and regenerate itself
- perform its predetermined functions based on the cell’s type and location in the body.



- Magnetic fields cause or increase motion of ions and electrolytes in the tissues and fluids of the body.
- This movement stimulates a vast array of chemical and electric actions in the tissues of the body, helping them to rebalance or heal themselves where necessary All cells need energy to function.
- Cellular energy requires ATP (Adenosine Triphosphate) and is fundamental to all cell and body functions and is necessary to sustain life itself. ATP regulates cell metabolism by transporting chemical energy within our cells.
- Low ATP levels cause our cells to be sick, and decreases their ability to heal, regenerate, or function properly.
- Through the increased motion of ions and electrolytes, magnetic fields help cells increase their energy (or “charge”) by up to 500%.

Putting it simply, PEMF is a “massage for your cell membranes.”

- Preserving and restoring the membrane with this energy can make way for a damaged cell to divert its precious energy resources to heal rather than simply stay alive.
- Additionally, it induces the growth of new blood vessels by stimulating your vascular endothelial cells (vessel inner lining) to release growth factors.
- This may be one of its mechanisms in its fostering repair of complex fractures (and in healing other tissues)

Pre-Event Protection and Post-Event Recovery



Cellular “injury”, the state of a cell when it is not healthy, leads to disease conditions.

Magnetic fields protect against cell injury by improving circulation, repair processes, energy, and increasing special stress help proteins in the cells.

These proteins are used to prevent cell breakdown and wear and tear, as well as help speed recovery from injury.

Why is treatment at the cellular level so important?

Magnetic fields affect the charge of the cell membrane, which allows membrane channels to open.

By opening cell channels, nutrients are better able to enter the cell, and waste is more easily eliminated from the cell.

This helps to rebalance and restore optimum cell function. If you restore enough cells, they will all work more efficiently.

Cells of the same type come together to make tissues, and those tissues come together to make organs.

So, by restoring or maintaining cellular function, you will, in turn, restore or maintain organ function, allowing the entire body to function better.

Will Magna Wave PEMF replace need for medications?

While PEMFs will not cure diabetes, heart disease, arthritis, or cancer, they still can make a huge improvement in overall function and symptom relief, and can be used alongside other treatments, including medication, for even better results.

In many cases, PEMFs can be used to replace or reduce pain medications and other anti-inflammatories, but they should not be depended on as the primary treatment without discussion with an appropriate health care professional.

They can become a primary treatment once a proper diagnosis and treatment plan are developed and the need for medication is reduced or eliminated.

How often should I do treatments? Daily, or only as problems arise?

Magnetic fields selected for treatment simultaneously provide health maintenance, not just treatment. PEMFs used frequently would be an important part of any prevention or health maintenance program, in addition to any treatment program. Magnetic therapies are usually complementary to other therapies, and they usually enhance each other's benefits.

What can you do to improve the effects of PEMFs in the body?

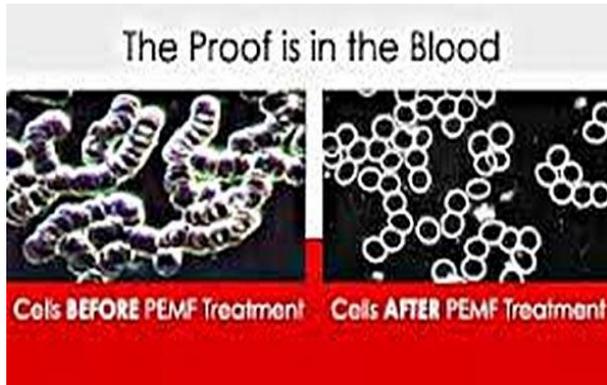
Since most of the effects of magnetic fields happen because of how they act on ions, especially calcium, sodium, potassium, and magnesium, these ions and electrolytes need to be at the right levels in the body. • It is difficult to heal depleted tissues without sound nutrition. • Supplements may also be quite helpful for magnetic therapy to be most effective. • Many feel that proper magnesium supplementation and adequate amounts of daily water is very helpful to enhance the effects.

Is PEMF like a TENS machine?

With any external electrical stimulation, the current will follow the path of least resistance from your skin to your tissues. That often gives some tissues more current than they require and other tissues less than they need. This is a limitation of external electrical devices and possibly why sometimes they don't help. However, magnetic fields penetrate through and through, so that your tissues get the benefit of microcurrents generated on site! • With PEMF, the electrodes never touch you. You are bathed in a magnetic field. It turns out that your body is "transparent" to the field. Unlike electricity, which meets resistance, a magnetic field is virtually unaltered going through your body. When the magnetic field pulsates, it generates electrical flow (microcurrents) throughout the distribution of the pulsating magnetic field. These micro currents generate right inside the target tissues. They're no longer dependent on an unobstructed electrical flow from electrodes on your skin.

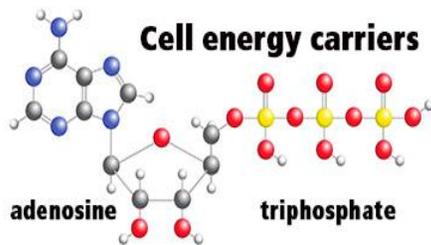
WHAT ARE SOME OF THE BASIC BENEFICIAL ACTIONS PEMFs WILL HAVE IN THE BODY?

Increased Circulation



One of the most basic functions magnetic fields have in the body is to increase circulation. When a cell (such as a red blood cell) is injured or ill, it does not hold its ideal charge. This causes red cells to “stick” together, making circulation slow. When a magnetic field passes through the red cell, the membrane becomes properly charged, allowing the cell to repel itself and keep itself separate from other red cells, thereby increasing circulation. Poor circulation makes tissues unhealthy and prone to disease and breakdown. Improved circulation helps tissues get the nutrition and oxygen they need, while expelling the waste they produce. Good circulation helps with tissue healing and regeneration. The result of improved circulation is the reduction of swelling and the removal of bruising

Enhanced Muscle Function



Muscle energy, needed for muscles to work, is developed through a process called Myosin Phosphorylation. Myosin is muscle, and phosphorylation is energy (ATP) production. Optimal energy allows muscles to work harder and longer, and recover more quickly from their work. Muscles that are contracted or in spasm are better able to relax, decreasing tension and reducing the pain caused by spasm.

Decreased Inflammation



Inflammation is a necessary and beneficial process, but it often persists longer than necessary, resulting in chronic inflammation. Chronic inflammation is frequently a cause of chronic pain. PEMFs have been found to reduce chronic, damaging inflammation. Inflammation can be initiated by many causes, and knowing the nature of the cause is important in designing therapeutic approaches

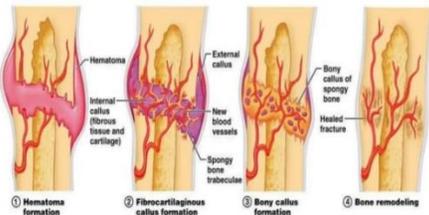
Stress Reduction



Stress is part of being human. Normal stress, called eustress, is necessary for survival. Too much stress is very harmful to the body, and accelerates aging. Stress is responsible for at least 65% of our illnesses, so stress reduction is necessary for all of us and our horses. Stress-reducing activities performed only now and then will allow too much stress-related damage to accumulate over time. Therefore, stress reduction must be a frequent activity. Magnetic fields have many stress-reducing effects. Daily use of PEMFs help to wash away the negative effect natural stresses have on our bodies

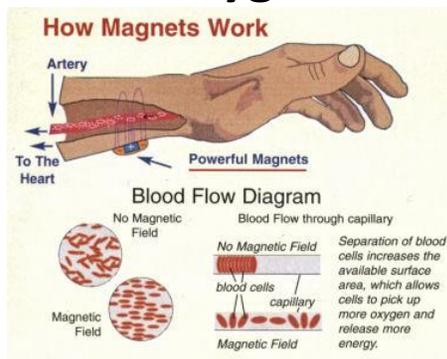
Bone Healing

Stages in the healing of a bone



Magnetic fields pass through the body – even the bones – as if the body wasn't even there. • PEMFs work to repair bones, whether they are damaged by surgery, injury, or disease, and have been found to improve bone regeneration such as occurs with osteoporosis and osteopenia, among other bone destroying conditions. Speed healing by a 1/3 to 1/2 of the normal time

Blood Oxygenation



Just as a fire cannot burn without oxygen, our cells cannot produce heat and energy without oxygen. PEMFs help with the process of extracting oxygen out of the air we breathe and help it to be transported into the circulation. The absorbed oxygen is then transported through the body to all the cells. The metabolism of an organism determines which substances it will find nutritious and which it will find harmful. Proper blood-oxygen levels at the cell level (not just in the blood) allow this process to continue quickly and efficiently. After the oxygen exchange takes place, veins carry deoxygenated blood and metabolic waste products away from those same cells and back to the heart for recycling again. This aid to Oxygenation is probably the most important function of the Magna Wave PEMF delivery system. Increase up to 200%.