



PEMF (Pulsed Electromagnetic Field Therapy) mat

PEMFs are produced through copper coils within the mat - there are four “pads” in the mat we have in the practice.

All cells are effectively influenced by electromagnetic frequencies and the PEMF uses electromagnetic pulses to stimulate the cells. It does this by using the magnetic pulses to create tiny electrical signals.

Pets’ bodies (and humans) are electrochemical organs and can be effectively influenced by low and safe electromagnetic frequencies. The electromagnetic pulse penetrates deeply into the tissues and cells.

How it works:

- The cells within the body need energy to function. They all contain electrically charged particles (ions) which govern how the cell functions.
- When the body is stressed by illness, age, or other disease, the cell membrane which conducts ions in and out of the cell becomes compromised and unable to do its job effectively.
- PEMF helps to restore the electromagnetic field and metabolic processes within the cell, it “re-charges” and re-establishes the cell membrane potential and ability to transport oxygen/nutrients in and toxins/metabolites out (capacity of the cell to function normally). It also helps the cells to communicate with each other and repair themselves.
- PEMF helps increase energy levels through its ability to stimulate the body’s energy production mechanisms (in chronic conditions such as arthritis, this ability is usually compromised).



Xeva on the PEMF mat following TPLO (cruciate) surgery on her left hind leg

PEMF treatment can:

- Provide pain relief – helps the body produce natural endorphins
- Promote faster healing - the release of nitric oxide in the body which help to dilate blood vessels, improve blood flow and oxygen delivery to the tissues. The increase in blood circulation reduces inflammation, promotes wound healing and improves cellular function
- Assist with increased mobility
- Reduce inflammation
- Promote healing of non-union bone fractures
- Increased performance for sport and working dogs

It can help conditions such as:

- Wounds and Soft Tissue Injuries
- Arthritis
- Tendon and Ligament Tears
- Fractured Bones
- Joint Conditions
- Neurologic Injuries
- Stiffness
- Hip Dysplasia
- Degenerative Joint Disease
- Degenerative Myelopathy
- Stiffness and muscle soreness
- Post cruciate surgery

There are no side effects and many times PEMF can be used in place of pharmaceuticals to treat long-term, degenerative conditions.

Treatment cannot be felt but the effect is noticeable and many times your pet will relax on the bed or even fall asleep. Typically, you will see results within two weeks, and you should notice a difference in how your pet walks, runs, and gets up.

PEMF is routinely used at the same time as laser therapy so your pet will receive two treatments at the same time.

Clients/patients which may be pregnant or have a pace-maker fitted should be at least 2m away from the mat when it has been switched on - please let one of the team know if this affects you or your pet.

Please contact the surgery and speak to one of our team if you think this will benefit your pet.