

Pulsed Electromagnetic Field Therapy (PEMFT)



Physiological and therapeutic benefits

Pain relief

Applying the 200Hz field around sensory nerve endings and synapses has been shown to increase the cellular potential differences, hyperpolarising them.

Chronic pain signals generated and passed on by them to the brain become less effective after a 10-minute treatment and as such help reduce the perception of pain.

Management of arthritis

Cartilage contains a gelatinous ground substance called **chondroitin sulphate**. Embedded within the ground substance are **collagen** and elastic protein fibres. Together, these components form a matrix that is flexible, yet very durable and also resistant to compression forces.

Osteoarthritis is associated with degradation of hyaline cartilage and PEMFT studies have shown that ECM and cartilage cellularity can be increased and has a potential to slow down cartilage degeneration

Bone & Soft tissue healing

PEMF may enhance cell viability, the formation of osteoid matrix and accelerate the process of bone formation which is useful in the management of osteotomies and fracture repair

Acceleration of ECM synthesis improved tensile strength and tissue healing has also been observed in studies.

User instructions

Connect the applicator and position the PEMFT pad on the patient.

The pad can be placed on, under or near to the area to be treated.

It can easily be placed in your dog's bed or under a blanket for example

Press the push button to start the unit.

The indicator lights will momentarily flash a couple of times whilst the computer goes through a start-up

The red output LED will only illuminate if an applicator is correctly plugged in.

The unit, once operating, will run for 15 minutes and then switch to standby.

To reset the unit for a longer treatment, the on-off switch should be pressed to switch off the device and then pressed again to switch it back on.

Stay with your pet for the duration of the treatment to monitor their response and make sure they stay within the electromagnetic field for maximum efficacy

Care and maintenance

Cleaning the unit and applicators – use a damp cloth do not use solvents and keep the unit stored in a dry place.

Use the unit only in dry conditions keep well away from water or from use in any position where it may be exposed to water or other liquids.

Charge the unit on a regular basis and do not allow it to fully discharge. Use only the charger provided with the unit.

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