**PEMF BASICS**

- **WHAT IS PULSED ELECTROMAGNETIC FIELD (PEMF) TECHNOLOGY?**

  The mechanisms of PEMF therapy is relatively simple: a frequency is administered directly to a site, which triggers the cellular release of nitric oxide, reducing inflammation and increasing healthy blood flow. How does this happen? PEMF targets health on a cellular level, penetrating the body to affect muscles and bones by increasing the healthy flow of ions across the cell well.

  One of the primary mechanisms of action of PEMF technology is its influence on ions, such as Calcium, at a cellular level. The interior of a cell typically has a charge of -.07 V relative to its surrounding membrane. Positive ions are drawn into the cell by this negative voltage. Pulsed electromagnetic fields facilitate the flow of ions across the cell wall by normalizing the voltage potential in both healthy and unhealthy cells, helping them to function and repair themselves.

- **WHAT ARE THE BENEFITS OF PEMF?**

  PEMF technology reduces swelling, increases blood flow, reduces inflammation and pain, and improves joint function; assisting with long-term soft tissue repair and a reduction in pharmaceutical dependence. The KVP Cura Patch overall improves the quality of life.

- **WHAT ARE THE BENEFITS OF THE KVP CURA PATCH™?**

  The KVP Cura Patch™ is the strongest and longest lasting wearable PEMF device for small animals. When the device is used with the KVP Cura Garment™, the patch also allows patients to move freely during treatment, and to urinate/defecate during treatment without having to remove the device. The KVP Cura Patch™ include up to 900 hours of active treatment, with a signal that reaches up to 9-10 inches of penetration.

**TREATMENT & PROCEDURE**

- **HOW LONG IS A SINGLE TREATMENT?**

  A single treatment will last for a total of 2 hours, consisting of 30 minutes of active treatment followed by a one-hour break, and then another 30 minutes. The device will automatically shut itself off after the full two-hour treatment is finished.

- **HOW MANY TREATMENTS ARE RECOMMENDED AND HOW OFTEN?**

  Specific treatment and duration of this treatment is at the discretion of the prescribing veterinarian. However, studies show that benefits are noticeable at 3 treatments, and begin to plateau at 10 treatments. Full treatment effect may take up to 20 treatments. Maintenance treatments following the initial treatment are recommended as needed. Daily treatments are advisable, and there is no risk of over-prescribing treatment.

- **HOW DO YOU BEGIN TREATMENT?**

  To begin treatment, attach the device to the affected area with either the KVP Cura Garment™ or wrap. Press the power button on the controller found at the center of the patch. A blue LED light on top of the controller should illuminate, indicating that the treatment has begun. The blue LED light will remain on during the entire treatment session and will turn off after two hours without any additional action needed.

- **CAN IT BE APPLIED TO THE OUTSIDE OF A SOFT CAST?**

  Yes, the KVP Cura Patch™ can be applied to the outside of a soft cast or brace.

**DEVICE FUNCTION**

- **HOW DOES PEMF RADIATE FROM THE KVP CURA PATCH™?**

  The radiofrequency begins to radiate from the patch in a conical shape, with the largest diameter starting closest to the KVP Cura Patch and decreasing in size to a point 9-10 inches from base.

- **HOW DO YOU KNOW THE KVP CURA PATCH™ IS WORKING/ON?**

  The blue LED light indicates that the device is on and working. You will not feel any vibration, pulsing, heat or shock from this device.

- **WHAT IS THE REASONING BEHIND THE SYSTEM OF 30 MINUTES OF TREATMENT, FOLLOWED BY A BREAK OF AN HOUR, AND THEN ANOTHER 30 MINUTES?**

  Much like using cycles of cold compresses or ice to reduce inflammation via vasoconstriction (closing of the arteries and veins), the 30-60-30 treatment cycle uses vasodilation (opening the arteries and veins) to bring healing, oxygenated blood to the treatment site.
WHAT DATA IS YOUR TREATMENT TIME BASED ON?
The 30-60-30 minute treatment time is based on the research of Dr. Pilla at Columbia University.

HOW LONG WILL THE KVP CURA PATCH™ LAST? WHAT IS THE LIFESPAN OF THE KVP CURA PATCH?
The KVP Cura Patch™ can last up to 3 treatment sessions with a full charge. The KVP Cura Patch’s battery is rated to 300 full charging cycles and delivers up to 900 hours of treatment.

HOW DO YOU KNOW THE KVP CURA PATCH HAS FINISHED ITS 900-HOUR LIFESPAN?
The KVP Cura Patch’s battery is rated for 300 recharge cycles. The 900 hours lifespan is an estimation of the capabilities of the battery and is not meant to be an exact guarantee. The battery may last slightly longer or shorter than 300 complete recharge cycles.

WHAT IS THE FREQUENCY OF THE KVP CURA PATCH?
27.12 MHz

HOW DO YOU KNOW WHEN TO CHARGE THE KVP CURA PATCH? HOW LONG SHOULD THE UNIT BE CHARGED BEFORE I CAN USE IT?
Initially, upon receiving and first use of KVP Cura Patch™, you will need to charge the device using the charging cable included in the packaging. Once plugged in, a red LED light will illuminate on the controller found in the center of the patch, indicating that the device is being charged. Allow the device to charge for 2-3 hours, in which the red LED light will turn off once the patch is fully charged. We recommend charging the KVP Cura Patch™ after the third treatment session.

DOES KVP CURA’S EFFECTIVENESS VARY BY ANIMAL BREED OR SIZE?
No, the KVP Cura Patch™ has an effective depth of 9-10 inches, regardless of patient breed or size. Our patented technology enables our PEMF therapy to penetrate deeper than any other device on the market – covering every patient, from mice to mastiffs.

HOW DO YOU CLEAN A KVP CURA PATCH™?
Do not machine wash. Surface-clean only with a damp cloth. Allow to fully dry before using.

IS THE KVP CURA PATCH™ WATERPROOF?
No, the KVP Cura Patch™ is not waterproof. KEEP AWAY FROM WATER. Use in a dry environment. Store in a cool, dry place.

CAN THE KVP CURA PATCH™ BE BENT OR FOLDED IN ANY WAY?
No, the patch should always stay flat when applied.

WHAT ARE THE CONTRAINDICATIONS WHEN USING THE KVP CURA SYSTEM™?
- Do not use this with topical pain rubs, medicated lotions, creams or ointments.
- Equipment is not suitable for use in the presence of flammable anesthetic mixtures, or in oxygen, nitrous oxide, or oxygen enriched atmospheres.
- Do not use on patients who have ANY implanted electrical lead or any type of wire coil implant, or any implanted system that may contain an electrical lead.
- Do not use on patients with an open wound at the area of application.

CAN I USE THE KVP CURA PATCH™ ON MYSELF?
The KVP Cura Patch™ is not intended for use on humans.

SHOULD YOU AVOID EYES, THE HEART AREA, LUNG AREA, OR AREAS AROUND THE ABDOMEN/BLADDER AREA?
While the application of the KVP Cura Patch™ to these areas might be more difficult, you do not need to specifically avoid these areas.

SHOULD YOU AVOID USING THE KVP CURA PATCH™ WHEN THE PATIENT IS HOOKED UP TO MONITORS, E.G., BLOOD PRESSURE MONITOR, IV FLUIDS, AND EKG?
It is not recommended to use the KVP Cura Patch™ with electrical medical devices.

CAN THE KVP CURA PATCH™ BE USED ON OPEN WOUNDS?
It is not recommended to use the KVP Cura Patch™ on an open wound that has not yet been sutured shut. The PEMF technology will result in blood rushing to the affected area (vasodilation) with the open wound. It is recommended to attach a bandage over the sutured area.

IS THE KVP CURA PATCH™ RECOMMENDED TO USE IN AREAS WITH MASSES?
Yes, the KVP Cura Patch™ can be used anywhere that will not be affected by vasodilation, although caution is urged when using the KVP Cura Patch™ with known masses.

CAN I USE THE KVP CURA PATCH™ WITH HARDWARE INSIDE THE ANIMAL?
Yes, the KVP Cura Patch™ will not interact with hardware made of metal. However, this is not intended for use with any kind of implanted electrical lead, or external electrical device.

CAN I USE THE KVP CURA PATCH™ POST-OPERATIVELY?
Yes, as long as the affected area is sutured shut, you will be able to use this post-operatively. The KVP Cura Patch™ is a vasodilator, so discretion from a veterinarian is required.