



KevMedTM

Living beyond the painTM



What is PainShield® MD Wearable Therapeutic Ultrasound?

A non-invasive, drug-free, wearable ultrasound therapy device that patients can wear anywhere to treat pain. Low-frequency, low-intensity ultrasound energy is delivered via a patch worn directly on the skin for multiple hours of pain relief. Non-adhesive (requiring medical tape) and adhesive patches are available.

What is PainShield MD used for?

To relieve pain and muscle spasm.

How does PainShield MD work?

PainShield MD delivers low-intensity, low-frequency ultrasound to create a deep warming effect in tissues, leading to greater tissue oxygenation and reduction of muscle spasm. It has been shown to reduce pain via possible effects on nerves, blood vessels and nitric oxide formation.

How is PainShield MD ultrasound therapy applied?

The reusable PainShield MD treatment patch contains an ultrasound transducer that is worn directly on the skin, typically over the area of most intense pain, or near nerves that affect the area of pain. The patch is connected to a battery-operated, rechargeable driver unit approximately the size of a smart phone. The driver has a simple on/off button and display showing elapsed treatment duration. Since PainShield MD delivers low-intensity (0.4W), low-frequency ultrasound energy (90 kHz), therapy can be delivered for a total of 6 ½ hours, consisting of alternating 30 minute active and idle phases. This is much longer than treatment sessions available with conventional high-frequency and high intensity ultrasound devices (>1 MHz).

How is PainShield MD Therapeutic Ultrasound different from other ultrasound therapy devices?

PainShield MD is light-weight, wearable and easy-to-use, delivering hands-free therapy for multiple hours at a time. Due to its lower intensity than conventional devices, PainShield MD can be thought of as “slow release” ultrasound. Conventional ultrasound units are limited by the small number of treatment sessions and the shorter treatment duration that is allowable due to their higher intensity, or due to their lack of portability and wearability. PainShield MD overcomes these limitations. Additionally, conventional ultrasound affects a narrow field of tissue, while PainShield MD’s field is much wider - up to 20 cm.

Do you have clinical data to show effectiveness?

PainShield MD has been evaluated in a [clinical study](#) and shown to significantly reduce pelvic, abdominal, bladder, musculoskeletal and sacroiliac joint pain.

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