PiezoWave² VET

The Next Piezo Shockwave Generation

for Veterinary Medicine
Extracorporeal shockwaves are mechanical stressors capable of inducing biochemical changes in living tissue; at a molecular level these changes can influence gene expression in cells and, if used selectively, can produce specific reactions in tissue. This process is referred to as mechanotransduction.

Mechanical stimuli can affect almost all cellular functions in living tissue, including growth, cell differentiation, cell migration, protein synthesis, physiological apoptosis and tissue necrosis. New studies have shown that ESWT is able to stimulate the endogenous production of lubricin in tendons and septa.

Scientific studies and publications, using the highly accurate piezo-shockwave technology, have confirmed the effectiveness of focused shockwaves for various common musculoskeletal conditions as well as trigger point diagnosis and treatment. ESWT is one of the few medical technologies which can treat chronic pain syndromes of the musculoskeletal system effectively by jump-starting self-healing processes.
Shockwave therapy breaks new ground

- Pin-pointed focused and linear focused – the best shockwave for every indication
- Extracorporeal shockwave therapy (ESWT) up to 60mm penetration depth
- Deep tissue massage of myofascial hardenings
- Excellent performance with single-layer and double-layer technology
- Piezo-electric “direct focusing” technology – minimal pain during applications
- Gentle and quite to reduce the flight instinct while treatment
- Uniquely durable therapy source
- Finely adjustable penetration depth using interchangeable gel pads
- Simple operation with external App support and Ipad holder
- Plug&Play – therapy source recognition
The PiezoWave²
Focused, linear, and planar shockwave therapy

The piezo-electric shockwave principle offers an extensive range of shockwave configurations. The only one of its kind in the world, the PiezoWave² allows users to choose between a classic focused shockwave, a linear focused shockwave, and a planar pressure wave. The right shockwave mode is available for every indication.

Focused shockwave

The focused therapy source of the PiezoWave² is characterized by its well defined and precise focal zone and a penetration depth up to 60mm (PiezoWave² FB10G6 therapy source)

Linear shockwave

Breaking new ground in shockwave therapy. The unique linear alignment of piezo crystals along the width of the therapy head creates multiple focal zones and provides a larger overall area of shockwave treatment. Perfect for myofascial treatments.
The piezo shockwave technology uses interchangeable gel pads which contact the patient to ensure that the shockwave penetrates precisely to the desired depth with as little scattering as possible. These gel pads are used as spacers and change the penetration depth in increments of 5 mm. They accomplish this by drawing the therapy source's static focal area incrementally superficial or deep respectively. Maximum penetration depths of between 20 mm and 60 mm are possible, depending on the therapy source.
The PiezoWave\textsuperscript{2} has an improved user interface that simplifies its daily use. Therapy source recognition through Plug&Play ensures that your PiezoWave\textsuperscript{2} will provide the appropriate energy spectrum when you plug in the therapy source. Individual settings can be adjusted with just a few keystrokes. You are supported by our optional ESWT App for your Ipad. With this new form of user support we want to ensure that even in future you will continue to receive the latest information on settings and the newest recommendations for PiezoWave\textsuperscript{2} clinical applications. Quickly and online.
The PiezoWave

Range of indications for ESWT

Chronic pain of the musculoskeletal system is one of the most common debilitating conditions. The majority of these painful conditions are the result of enthesiopathies such as tennis elbow, calcaneal heel spurs, or calcifications of the shoulder joint. Myofascial trigger points have also increasingly been diagnosed as major causes of chronic pain. Focused ESWT has now become established as a useful method for the diagnosis and treatment of many acute and chronic pain syndromes of the musculoskeletal system. Extracorporeal shockwave therapy for the treatment of chronic lesions in the soft tissue areas near bones of the posture and locomotor system:

• myofascial pain syndrom
• Insertion desmopathy
• Tendopathy
• Sesamoidosis
• Calcification

• Degenerative Gelenkerkrankungen
• Frakturen, Fissuren
• Periostale Reaktionen

etc.

ESWT Indications for small animals - especially for dogs

• Myofascial hardenings
• Diseases of the tendons and synovial sheaths
• Chronic joint disease (wear, functional restrictions)
• Changes to the vertebrae (spondylosis)
• Deformities of the hip (HD hip dysplasia)
• Acceleration of bone growth following fractures
Unique wound healing therapy

The shockwave with a linear therapy focus

Richard Wolf GmbH and ELvation have developed a new and unique technology: a linear, focused shockwave. The aim was to create a shockwave that could be applied more uniformly and more effectively compared to the point-shaped focus of conventional shockwave therapy sources.

Gel pads are used to adjust the penetration depth to between 0 and 20 mm and to ensure that the acoustic field is optimally adapted to dermatological applications.