

## What is treatment with focused shockwaves like?

Treatment is carried out on an "outpatient" basis. Depending on the disorder, treatment only takes a few minutes. Most cases do not require sedation. The treatment target area and treatment parameters, such as penetration depth and intensity, are assessed and identified at the preliminary examination.

The shockwaves are generated in the handpiece, the so-called therapy source. The shockwaves pass through a gel pad which serves as a spacer to regulate the penetration depth. The pad focuses the waves generated by the therapy source on the target area. Shockwave gel is used as a coupling agent to ensure proper contact between the handpiece and the animal.

To ensure that the shockwaves pass smoothly into tissue, it may be necessary to first trim the animal's coat.

The treatment is gentle. Once it has been completed, you can take your animal home again immediately. The length of the rest period will depend on the disorder and should be decided in consultation with the treating vet.



## What are the advantages of the focused shockwave treatments ESWT and TPST?

Advantages compared to other conservative treatments:

- Outpatient treatment – immediately after the therapy, you can take your animal home again.
- Sedation/local anesthesia is usually not required
- Significant reduction of pain and restoration of normal mobility, usually within a very short space of time
- Depending on the indication, only a few treatment sessions will be necessary
- No danger or allergies
- Treatment sessions are short
- Supports the body's endogenous repair mechanisms – with no side effects!

If you have any questions or would like more information on focused ESWT and TPST, please do not hesitate to contact me.

Practice stamp

Visit our website for more information:  
[vet-stosswelle.de/en/small-animals](http://vet-stosswelle.de/en/small-animals)



ESWT Sales-Team of  
**RICHARD WOLF**  
spirit of excellence

Elvation Medical GmbH  
Ludwig-Wolf-Str. 6  
75249 Kieselbronn-Germany  
+49 (0) 72 31 - 56 36 56 tel  
[www.elvation.de](http://www.elvation.de)

# PiezoWave<sup>2</sup> VET

Eliminates pain and supports healing processes



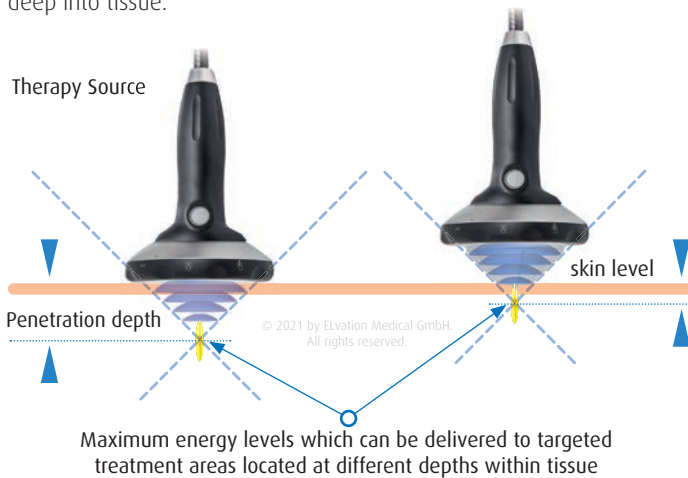
Focused extracorporeal shockwave therapy (ESWT) and trigger point shockwave therapy (TPST) in small animal medicine

## What are focused piezo shockwaves?

Shockwaves were originally used in humans to break down kidney stones. Since then, ESWT has become an important therapeutic option in conservative orthopedic therapy.

After its successful use in human medicine, ESWT also began to be used in veterinary medicine.

High-energy shockwaves generated outside the body (=extracorporeally) using the piezoelectric principle are delivered deep into tissue.



## How do focused piezo shockwaves work?

The mechanical stimulus of the shockwave sets off processes in diseased tissue which not only result in repair of the damaged tissue but also real regeneration of tissue. The treatment initiates a process of endogenous tissue regeneration – without the well-known side effects of drugs and injections.

Piezo shockwaves have the unique ability to be precisely adjusted so they will reach the appropriate penetration depth at the intensity required by the medical findings. This increases the probability of optimal therapeutic success.

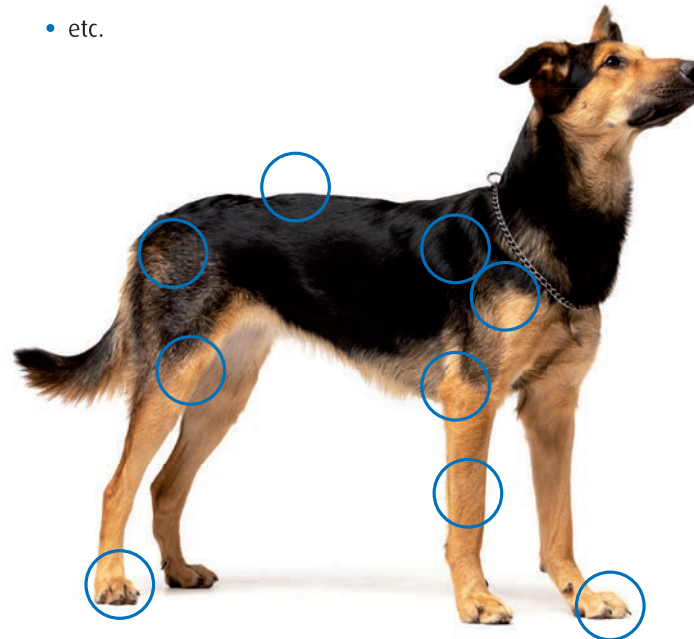
## How can you see whether treatment is successful?

Pain relief often occurs already after the first treatment session and is demonstrated by the visible improvement in the animal's gait. In human medicine, relief or even elimination of pain can be achieved in up to 85% of patients, depending on their symptoms.

## Where are focused piezo shockwaves used?

Focused shockwave therapy is used to treat acute and chronic pain, principally in the muscles and tendons:

- Dysplasia/ malformations of the joint (e.g., hip, elbow)
- Spondylosis deformans/ chronic degenerative disease of the spine
- Tendinopathies (e.g., insertion tendinopathies of the proximal biceps tendon)
- Osteoarthritis (e.g., knee joint, metatarsophalangeal joints)
- Medial shoulder instability (lesion of the rotator cuff)
- Pseudarthrosis
- Cauda equina syndrome (compression syndrome)
- Peripheral ischemic neuromyopathy ('bottom-hung window' trauma)
- Tendinopathy after TPLO or TTA (management of ruptured cranial cruciate ligament in dogs)
- Hygroma
- Muscle contractures (e.g., infraspinatus muscle)
- Calcifications/Injuries of the supraspinatus muscle
- etc.



## What is trigger point shockwave therapy?

In many cases, pain is caused by distant trigger points located in associated muscle groups. Trigger points are tiny pain-sensitive zones in muscle which contract, leading to shortening of the muscle. Normal gait becomes impossible. The piezo shockwave is optimally designed to administer trigger point shockwave therapy (TPST). The focused acoustic pulse concentrates at a single point to precisely locate and immediately treat the trigger point.

**Shoulder:** treatment of medial instability, tendinopathies and muscle contractures

**Elbow:** treatment for dysplasia, osteoarthritis and hygromas

**Spinal column:** treatment for spondylosis and compression syndromes (e.g., cauda equina, neuromyopathies)

