



# CS-Pro VET

## Canine Protocol Recommendation

### Locations

#### 1. Shoulder

Standoff: 20 mm  
EFD: 0.20 mJ/mm<sup>2</sup>

#### 2. Elbow

Standoff: 10 mm  
EFD: 0.17 mJ/mm<sup>2</sup>

#### 3. Carpus

Standoff: 5 mm  
EFD: 0.14 mJ/mm<sup>2</sup>

#### 4. Paws

Standoff: 5 mm  
EFD: 0.11 mJ/mm<sup>2</sup>

#### 5. Tarsus

Standoff: 5 mm  
EFD: 0.14 mJ/mm<sup>2</sup>

#### 6. Stifle

Standoff: 5 mm  
EFD: 0.14 mJ/mm<sup>2</sup>

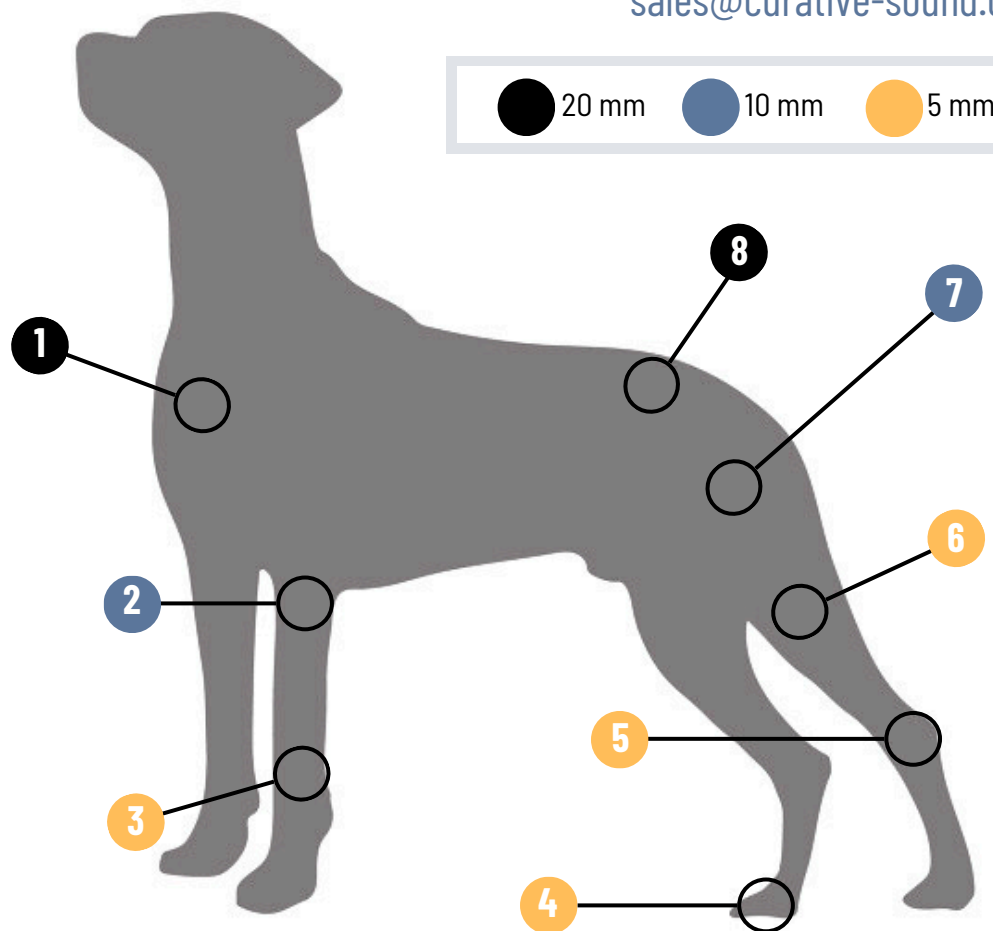
#### 7. Hip

Standoff: 10 mm  
EFD: 0.17 mJ/mm<sup>2</sup>

#### 8. Back

Standoff: 20 mm  
EFD: 0.20 mJ/mm<sup>2</sup>

For more information, contact  
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### General Recommendations

- Treat area with 1000-3000 pulses at 10 Hz.
- Conduct treatment weekly for a total of 3-6 treatments.
- These recommendations are not exhaustive and guidelines can be deviated from at veterinary discretion.
- Restrict patient to low intensity activity for up to four days after treatment.

### Treatment Indications

- Accelerate healing after TPLO surgery
- Superficial and non healing wounds
- Chronic or acute tendon and ligament injuries
- Muscle pain and trigger points
- Osteoarthritis
- Intervertebral disc disease
- Inflammation
- Dysplasia



# CS-Pro VET

## Companion Animal Guidelines

The following table provides general treatment guidelines for some of the most common applications of ESWT in companion animals. These are starting points and protocols should be modified at veterinarian discretion.

We recommend treatment approximately once a week for a total of 3 - 6 treatments. ESWT is known to produce an analgesic effect, so restricting the patient to low intensity activity for up to four days is advisable.

<b>Indication</b>	<b>Standoff (mm)</b>	<b>Energy (mJ/mm<sup>2</sup>)</b>	<b>Shock Set</b>	<b>Notes</b>
<b>Post TPLO Surgery</b>	10 & 30	0.17 - 0.22	1200 x 4	Treat Craniomedial and Caudomedial areas with standoff 10 and energy of 0.17. Treat Craniolateral and Caudolateral areas with standoff 30 and energy of 0.22.
<b>Superficial Wounds</b>	2 - 5	0.04 - 0.14	1000 - 3500	Before treatment, sterilize the standoff using a low temperature sterilizer such as the Sterlink Gas Plasma Sterilizer or use a sterile probe cover.
<b>Tendon and Ligament Injuries</b>	5 - 20	0.04 - 0.16	1000 - 2500	Fix standoff tip to site of injury and gently move back and forth in all directions. Utilize higher energy and shock set settings for chronic injuries.
<b>Muscle Pain</b>	5 - 20	0.04 - 0.16	1000 - 2500	Once precise location of soreness is located, treat it and the immediate surrounding areas until relaxation of the muscle is observed.
<b>Osteoarthritis</b>	5 - 30	0.04 - 0.22	1000 - 3000	Fix standoff tip to site of injury and gently move back and forth in all directions.
<b>IVDD</b>	5 - 20	0.07 - 0.16	1000 - 2000	Avoid treatment over lungs, GI tract, or site of laminectomy surgery. Utilize higher energy and shock set settings for chronic injuries.

### Universal Recommendations

- Apply ultrasonic gel liberally on the treatment site.
- Shave treatment area on animals with heavy coats.
- Select the standoff based on the treatment site's depth.
- Increased treatment efficacy is associated with higher energy settings. If the patient can tolerate it, we advise utilizing energy settings on the upper end of the suggested range.
- The default Rep Freq we recommend for all treatments is 10 Hz. If patient is showing signs of pain, Rep Freq can be decreased. If faster treatment is desired, the setting can be increased to 12 Hz.
- Larger animals may be able to tolerate higher energy and shock sets better than smaller animals.