

# Introducing

## RLT-Vet

REGENERATIVE LASER THERAPY

# Regenerate Rehabilitate

sound-eklin®

a VCA ANTECH company

RLT-Vet™ Regenerative Laser Therapy  
is a trademark of

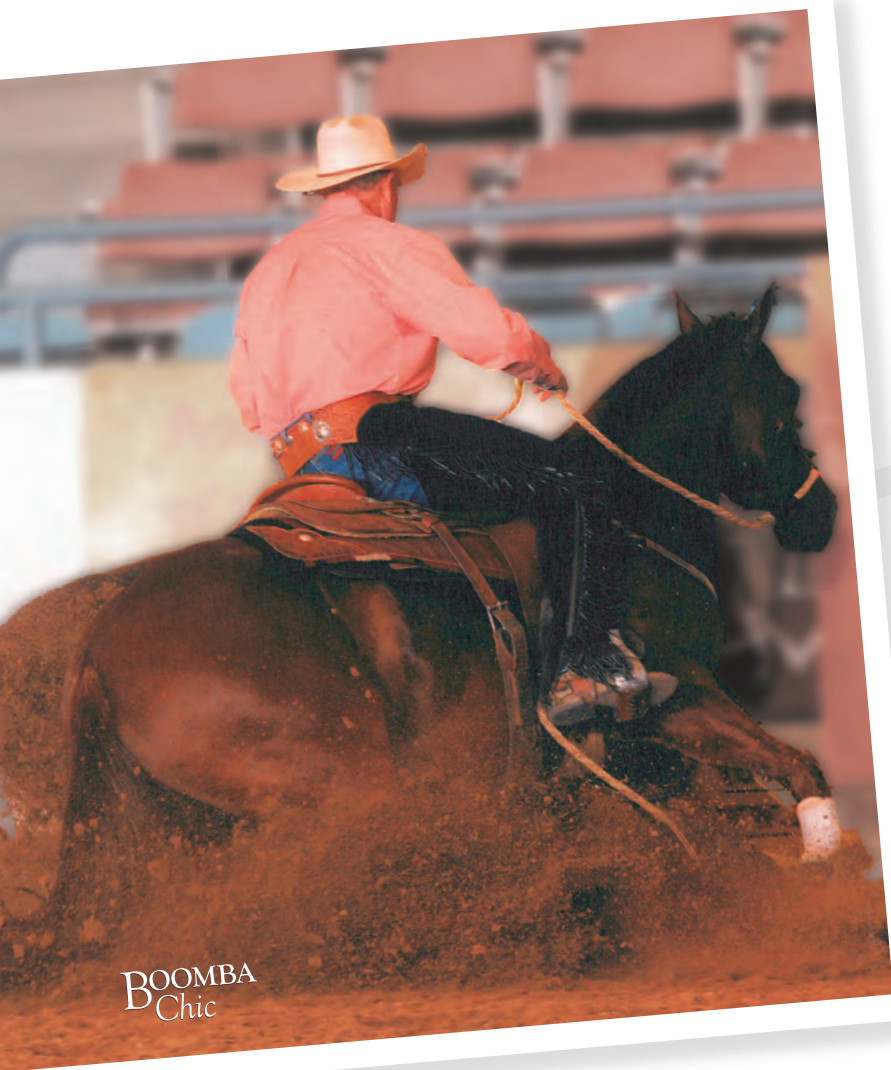
**E.E.**

ELECTRONIC ENGINEERING

SpA - Calenzano (FI) - Italy







### Mechanisms of RLT-Vet™

#### Rebalancing Phase

- Analgesic effect
- Stimulate lymphatic drainage
- Reduction of inflammation

#### Regeneration Phase

- Cell cycle restoration
- Conversion of fibrocytes to fibroblasts (fibroblasts remove/reduce scar tissue)
- Stimulate production of extracellular matrix
- Stimulate production of collagen fibers and elastin
- Recovery of elasticity

#### Rehabilitation Phase

- Myorelaxation
- Neoangiogenesis
- Physiological cell differentiation
- Physiological spatial collagen realignment
- Recovery of firmness and strength
- Restoration of tissue to original condition

## Regenerate. Rehabilitate.

Previously thought untreatable career ending injuries are reversing, horses are healing faster and resuming training sooner. Sound-Eklin® and internationally renowned medical laser innovator, EL.En™ have joined forces to bring the ground-breaking RLT-Vet™ Regenerative Laser Therapy System to equine medicine.

Early results demonstrate:

- Repair of ligament and tendon lesions
- Reduction of scar tissue within and around tendons
- Normalization of muscle fibers and function

Shallow penetration due to skin melanin, hemoglobin and tissue water absorbing laser light has limited the effectiveness of low level laser therapy (LLLT) to superficial applications. Pulsed high intensity laser therapy utilized by the RLT-Vet™, safely delivers energy to deep structures, yielding extraordinary therapeutic results. Treatment of tissue even within the hoof capsule is now possible.

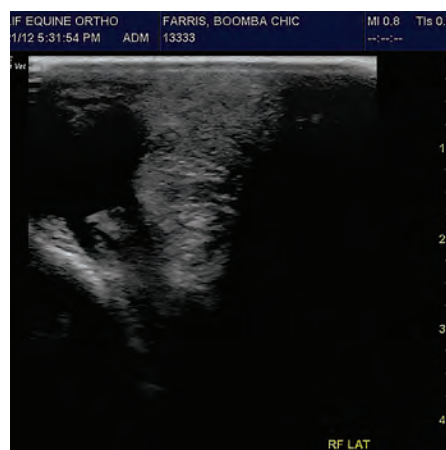
In application, three phases of therapy are employed; Rebalancing Phase - where swelling, inflammation and scar tissue is reduced; Regeneration Phase - when damaged tissue is restored; Rehabilitation Phase - where firmness, strength and functionality of tissue is recovered.



Ultrasound images document Sound-Eklin's® RLT-Vet™ treatment for Boomba Chick, John Farris - Rancho Santa Fe, California.

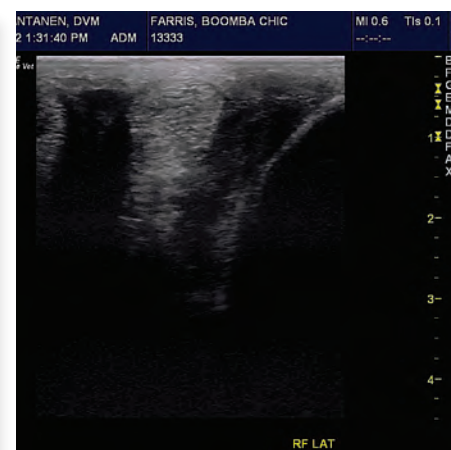
### Ultrasound

Images courtesy of Dr. Norm Rantanen



March 2012

Ultrasound scan of an acute suspensory branch injury superimposed on a chronic suspensory branch desmitis and enlargement with severe periligamentous scar tissue formation.

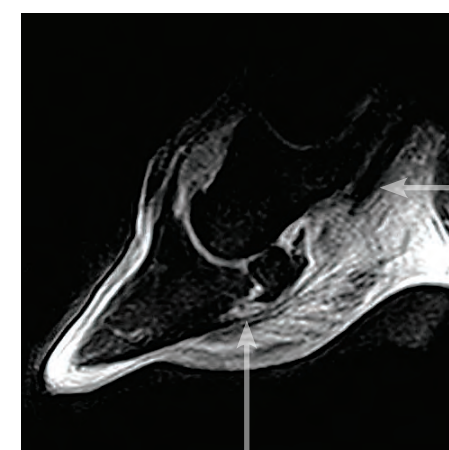


October 2012

Follow up image at the same level made seven months post treatment showing reduction in size of the suspensory branch, healing of the fiber disruption and a nearly complete resorption of the dense periligamentous scar tissue.

### Magnetic Resonance Imaging

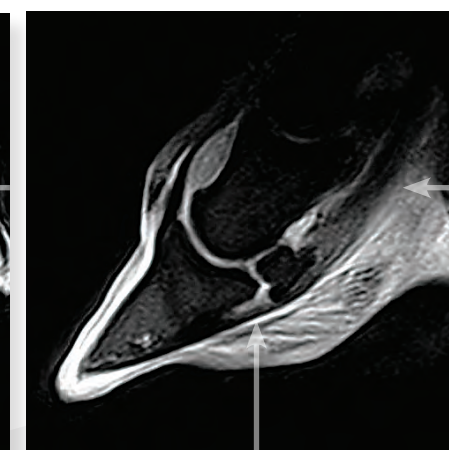
Images courtesy of California Equine Orthopedics



March 2012

Sagittal gradient echo stir image of the foot confirming a nearly complete loss of normal signal level of the deep digital flexor tendon.

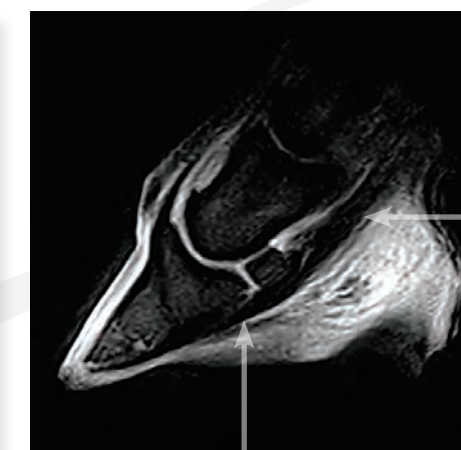
Image acquired at beginning of treatment



May 2012

Increased signal along the path of the tendon indicating tissue regeneration.

Image acquired three months after beginning of treatment



November 2012

Follow-up image. There is a near normal regeneration of the tendon in this plane.

Image acquired eight months after beginning of treatment

# RLT-Vet

## REGENERATIVE LASER THERAPY

### Specifications

Laser Type:	Nd:YAG
Wavelength:	1,064 nm
Pulse Duration:	150 µsec
Maximum Energy per Pulse:	2 J
Frequency:	30 Hz max
Average Power:	20 W max
Peak Power:	16.6 kW max
Spot Size:	5 mm and 10 mm (Automatic Recognition of Spot Size)
Delivery System:	1000 µm Optical Fiber Assembly — 5 m long
Laser Shutter Control:	Fingerswitch or Footpedal
Beam Profile:	Homogeneous
Diode Laser - Aiming Beam:	3 mW; 635-670 nm
Cooling:	Sealed Circuit with Heat Exchanger (air/liquid)
Electrical Requirements:	230 Vac - 50/60 Hz - 15 A max
Dimensions:	37" h x 13" d x 30" w, 95cm h x 33cm d x 75cm w
Weight:	176 lbs, 80 kg

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800.268.5354

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