

How can HEALS™ assist with my animal's care?

High Emissivity Aluminiferous Luminescent Substrate



The WARP 10™ and VET 75™ emit 60mW/cm² radiant output giving you 5 joules of energy per 88 second dose.



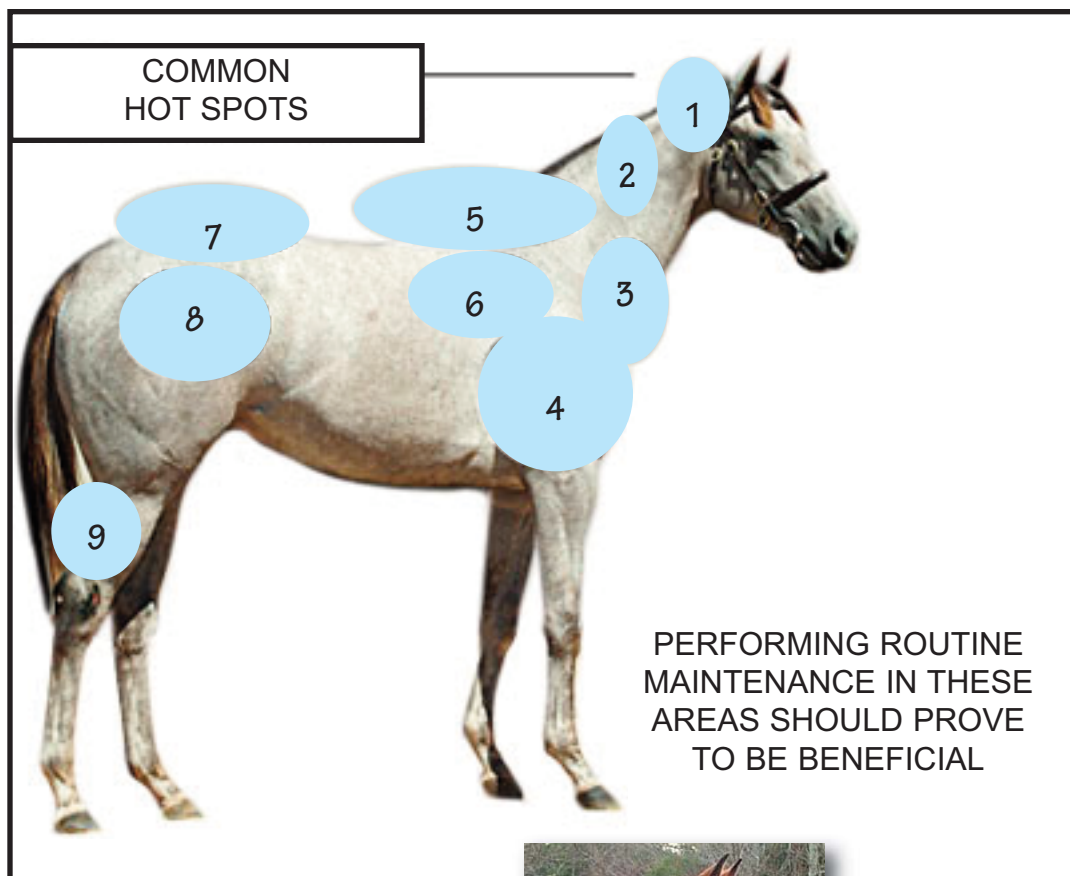
What can light therapy with the VET 75™ achieve for your animals?

- 1) Treatment of traumatic, inflammatory and overuse injuries.
- 2) Pain relief and healing of arthritic lesions.
- 3) Reduce abscess and treat persistent non-healing wounds such as cold sores and ulcers.
- 4) Prevent or minimize keloid formations and adhesions.
- 5) Reduce edema and reduce pain from surgical and other treatments.
- 6) Encourage formation of collagen and cartilage in damaged joints.
- 7) Encourage repair of tendons and ligaments.
- 8) Reduce stress and stimulate healing.

On a Cellular Level

- *Increase phosphorylation in the mitochondria and increase levels of cellular ATP
- *Increase protein synthesis, including increased growth and reproduction
- *Increase activity in the nucleus resulting in increased DNA and RNA synthesis
- *Increase production and activation of cellular enzymes
- *Improve membrane stability and increase activity of the Sodium/Potassium pump

In the 1990's, Dr. Harry Whelan at the Medical College of Wisconsin, in collaboration with Quantum Devices, NASA and DARPA, conducted research studies on the therapeutic use of LED's on humans in space, the deep sea and on Earth. This research was completed with Quantum Devices' LED arrays. Whelan's study found that LED's boost cell energy and accelerate healing. The VET 75™ stimulates cell growth at an amazing 150-200% faster!



LEDs are neither coherent nor collimated and they generate a broader band of wavelengths than do the single-wavelength laser. Non-collimation and the wide-angle diffusion of the LED achieve greater ease of application, since light emissions are thereby able to penetrate a broader surface area. Moreover, LEDs may affect more tissue types and produce a wider range of photochemical reactions in the tissue.

The LED disbursement over a greater surface area results in a faster treatment time for a given area than laser. LEDs are safer, more cost effective, provide a gentle but effective delivery of light and a greater energy output per unit of surface area in a given time duration.

Research has shown no contraindications with this form of therapy.

On a Tissue Level

- *Increase collagen production
- *Increase epithelial production
- *Angiogenesis, and an increase in capillarisation of tissue
- *Reductions in scar tissue formation and keloid adhesions
- *Reduce pain and inflammation
- *Nerve regeneration
- *Muscle relaxation and reduction in muscle spasms and atonicity
- *Increase immune system response



Quantum BioMedical, Inc.

A Division of Quantum Devices, Inc.

112 East Orbison Street
Barneveld, WI 53507

Phone: (608) 924-3000 Fax: (608) 924-3007