

## **Musculoskeletal Pain Relief in Horses – IceWave – Clinical Study**

Infrared Thermal Imaging Quantifies the Efficacy of IceWave® Patches in Musculoskeletal Pain Relief in Horses. Journal of the American Holistic Veterinary Medical Association. 2011;30 (1):17-25.  
DeRock L, Clark D, Nazeran H.

The purpose of this clinical study was to use infrared thermal imaging to quantify the efficacy of IceWave® patches in pain relief with horses, as well as reduction in painful and inflamed areas. If the study was to prove successful, researchers would need to see IceWave® Patches produce a highly significant cooling effect (pain reduction) in the areas affected by pain in horses.

The researchers worked with 38 horses in this clinical study with every horse being scanned 4 to 10 times each, providing a total of 165 thermal measurements. The results that were generated from the use of the IceWave® Patches were extraordinary. Statistical analysis of infrared thermal imaging data revealed a highly significant ( $p < 0.0001$ ) effect due to wearing the IceWave® Patches in the affected (painful) areas in all horses with a statistical power of 100%. In other words, every horse that wore IceWave patches experienced a reduction in pain and inflammation within minutes of use! Based upon these findings the data clearly reveals the IceWave® Patches produce a highly significant cooling effect (pain reduction) in the areas affected by pain in horses. It was also observed that the IceWave® Patches exert a warming effect due to increased perfusion in hypothermic (cold) areas affected by abnormal circulation.

The remarkable thing to note about this clinical study is not simply to illustrate the efficacy of the patches in reducing pain through a cooling effect shown with thermal imaging, but also to note that where needed, the patches were able to produce a warming effect in areas of poor circulation! The technology behind the LifeWave patches is astounding, and when paired with the body; human or animal, the possibilities are endless.

To see the complete study please visit <http://www.lifewave.com/marilynvine> and scroll down to the bottom of the page and click on Research.

LifeWave is committed to supporting our products with quality scientific research and clinical studies, and we are proud to share these exciting results with you.