

# BEMER Equine Research News

## A new approach to equine back pain: BEMER Therapy

### ABOUT THE BEMER HORSE-SET

- ~ BEMER stands for Bio-Electro-Magnetic-Energy-Regulation
- ~ Leading global innovator in PEMF technology
- ~ Founded in 1998 - headquartered in Liechtenstein
- ~ 13 years in the USA - headquartered in Carlsbad, CA
- ~ Developing equine products since 2000
- ~ Multiple international patents
- ~ Winner of multiple scientific and design awards
- ~ Proprietary signal configuration
- ~ Used by leading professional equestrians worldwide
- ~ Veterinarian recommended
- ~ FDA registered animal medical device (Equine)
- ~ FEI approved supportive therapy device
- ~ A+ rating from the BBB

### BACKGROUND

**Back pain is present in over 90% of the population of working horses.** It's a significant problem that has the potential to result in suboptimal performance, lost training days, behavioral issues, rider falls, substantial treatment expenses and potential loss of career for the horse. Underlying causes are vast, hard to pinpoint, and often include poor saddle fit, weak abdominal muscles, hypertonic back muscles, lameness and spinal problems. Treatment of back pain can be extremely challenging and typically involves a multi-modality approach to resolve. The common goal in the treatment of affected horses aims to alleviate discomfort, muscle spasms and stiffness associated with chronic back pain.

**ABSTRACT:** <https://pubmed.ncbi.nlm.nih.gov/35081474>

BEMER Horse-Set is registered as an animal medical device for the U.S. and Canada. BEMER Horse-Set is in no way a substitute for medical care. It is not intended to diagnose, treat, cure or prevent any medical condition or disease. BEMER does not replace treatment by your veterinarian. Please consult with your own veterinarian if your horse has a medical concern. Individual results may vary.

BEMER Horse-Set is designed for horses and is NOT intended for use with small animals or humans.

### RESEARCHERS



Dr. Melissa King (pictured above), DVM, along with Dr. Kathryn A. Seabaugh, DVM and Dr. David D. Frisbie, DVM, lead innovative research investigating the effects of a Bio-Electromagnetic Energy Regulation (BEMER) on back pain in horses at the Gail Holmes Equine Orthopedic Research Center at Colorado State University (CSU).

### STUDY DETAILS

Eight horses (between 4 - 10 years of age) consistent in their degree of work and diagnosed with back pain.

BEMER Equine Blanket was applied twice a day, 6 hours apart for 3 consecutive days.\*

- Day 1 - Program 1 = 5 min (10-20 mT)
- Day 2 - Program 2 = 10 min (10-30 mT)
- Day 3 - Program 3 = 15 min (10-35 mT)

Observations were done daily for 5 days (beginning on the first day of therapy) which included spinal evaluation, mechanical nociceptive thresholds, electromyography, kinematics, kinetics, and serum bio-markers.

\*Study specific protocol.

### HIGHLIGHTED BENEFITS

**THIS STUDY HAS SHOWN THAT BEMER THERAPY:**

- Reduces muscular back pain in horses
- Improves postural control in horses
- Improves spinal flexibility in horses
- Improves functional movement in horses

### CITATION

King, M., Seabaugh, K., Frisbie, D. (2022). Effects of a Bio-Electromagnetic Energy Regulation Blanket on Thoracolumbar Epaxial Muscle Pain in Horses. *Journal of Equine Veterinary Science*. doi: <https://doi.org/10.1016/j.jevs.2022.103867>