

2015

Biomechanics of Injury and Healing (2015). Conference Proceedings from the Florida Association of Equine Practitioners 11th Annual Promoting Excellence Symposium in Naples, Florida discusses a few parameters of biomechanics and how these issues relate specifically to injury and healing in horses. Clinical guidelines are offered for rehabilitation protocols.

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Functional Electrical Stimulation for Equine Muscle Hypertonicity: Histological Changes in Mitochondrial Density and Distribution. (2015). The FES protocol used in this study produced a positive effect on mitochondrial density and distribution, which in turn may help create healthier muscle tissue that is better able to function during exercise.

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Functional Electrical Stimulation Gets Muscles Moving July 2015 The Chronicle of the Horse This therapy targets everything from performance enhancement to pain management in the quine athlete. By Lindsay Berreth

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Biology of muscle atrophy and of its recovery by FES in aging and mobility impairments: roots and by-products (2015). The paper shows that through the evaluation of human and equine muscle biopsy data, atrophy can be reversed and FES is a good way to modify behaviors of muscle fibers.

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Mitochondrial density and distribution by histochemical approaches distinguish muscle fiber types and support clinical improvements due to FES as a treatment of equine epaxial muscle spasms (2015). Conference proceedings from Padua, Italy Muscle Days discusses the use of FES to reduce equine epaxial muscle spasms and the histological results in the improvement in mitochondrial density and distribution

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2015 (continued)

Functional electrical stimulation (FES) use in horses for musculoskeletal and neuromuscular rehabilitation (2015). Conference proceedings from Padua, Italy Muscle Days outlines the specifics of the use of FES for equine use. A discussion of the observed reduction in muscle atrophy and spasm and how these results compliment those observed in human use of FES.

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The whole horse approach to equine physical rehabilitation: The biomechanical view (2015). Proceedings from Equine Nutrition and Training Conference (ENUTRACO) discuss the science of equine rehabilitation focussing on the biomechanics.

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Functional electrical stimulation as a safe and effective treatment for equine epaxial muscle spasms: Clinical evaluations and histochemical morphometry of mitochondria in muscle biopsies (2015). FES in horses is a safe treatment that provides clinical improvements in equine epaxial muscle spasms

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