

عنوان مقاله:

Effect of transcutaneous electrical stimulation on the hydroxyproline content in severed superficial digital flexortendon in horses

محل انتشار:

فصلنامه تحقيقات داميزشكي, دوره 62, شماره 2 (سال: 1386)

تعداد صفحات اصل مقاله: 5

نویسندگان: D Sharifi - Department of Surgery and Radiology

D Kazemi - Department of Clinical Sciences Islamic Azad University Tabriz, Tabriz-Iran

A Rassouli - Department of Physiology, Pharmacology and Toxicology, Faculty of Veterinary Medicine, University of Tehran, tehran- Iran

G.R Shams - Department of Physiology, Pharmacology and Toxicology, Faculty of Veterinary Medicine, University of Tehran, tehran- Iran

خلاصه مقاله:

Transcutaneous electrical stimulation (TES) has recently been used in resolving experimentallysevered superficial flexor tendon which leads to acute tendonitis. However, mechanism by which(TES) promote tendon repair is not fully understood. In this study 4 right superficial flexor tendon ofhind limb of horses were subjected to daily therapeutic regimen of TES for 10 minutes for 15 daysusing 100 Hz frequency and 80 s intensity (2.8 - 0.6 mA) after being severed in full length thicknessin total length of 10 cm in the mid- tendon area and similarly in another 4 right tendon in control horsesno treatment was applied. Tendons were subjected to ultrasonographical, histological and, tensilestrength evaluation which has been reported separately for publication and hydroxyproline contentfor 60 days after treatment. There were remarkable differences between hyroxyproline contents ofsevered tendon with those of normal ones in control group, whereas there was not significant differences in treated tendons with those of normal ones in the same horses. This study suggests that using hydroxyproline content as a direct marker of the effect of TES .on collagen content in injuredtendon. J.Vet.Res. 62,2:43-47,2007

کلمات کلیدی: tendon,TES,tensile strength, horse

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/350319

