

ANALGESIC EFFECT OF THE *CAPSICUM ANNUM L* EXTRACT GEL IN AN EXPERIMENTAL MODEL FOR THE TREATMENT OF EQUINE THIRD INTEROSSEOUS MUSCLE DESMITIS IN THE HIND LIMB.

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Introduction. The objective was to evaluate the analgesic effect of the *Capsicum annum L* extract gel for topic use in horses with M. Interosseus III Desmitis (MIO III D).

Materials and Methods. Experimental model was done over a sample of jumping horses (n=12), Silla Argentina breeding, with MIO III D diagnosed by a standard protocol using the following parameters: a) lameness 3/5, b) positive high plantar anesthesia, c) ultrasound diagnosis and d) radiology with no significant changes. Animals were randomly separated into two groups. Group 1 (n=10): *Capsicum annum L* extract gel was applied in massage, three times a day with no other medical administration. Group 2 (n=2) was treated the same way with a placebo gel. Pain evaluation was assessed every three days for 15 days. Data obtained was analyzed by parametric simple lineal regression (minimum quadratic method).

Results. The results were: group 1 obtained significant decreases in lameness during the treatment period (lameness average = $-0.196 \times \text{time} + 3.105$; regression resulted significantly negative ($p=0.0001 < 0.01$)). Group 2 no significant improvement was observed from the initial lameness, and no significant changes were detectable during the treatment (initial average = 3; final average = 2.5).

Discussion. Considering this research as a pilot experience, *Capsicum annum L* extract gel would be effective in pain treatment of horses with MIO III D detectable at walk and trot, therefore decreasing lameness.

Conclusion. Although pain relief is not a disable situation in this condition but considering our pain research trend this model is useful to evaluate the analgesic effect of *Capsicum annum L* in a sub acute pain, as in OI III D in the hind limb.