ABSTRACTS

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Combination of ketamine and xylazine to reduce pain during electroejaculation in dogs

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OBJECTIVES AND METHODS: Pain is an unpleasant sensorial or emotional experience associated to total or potential tissue destruction (1), until this moment studied in bull over electroejaculation (EEJ) procedure (2). The present study evaluated the efficiency of a ketamine-xylazine combination to attenuate the pain associated to EEJ in dogs. To that end, 10 dogs of undetermined breeds were anesthetized (i.m.) with a mixture of 8mg.kg⁻¹ ketamine hydrochloride (Cetamin®, Syntec, Brazil) and 1mg.kg⁻¹ IM xylazine hydrochloride (Xilazin®, Syntec, Brazil) and subjected to EEJ procedures. Painful stimuli were detected by cardiorespiratory rate, measured every 5 min, and body temperature (3,4), taken before and after EEJ.

RESULTS: The initials heart and respiratory frequencies were 96±7 and 24±72 beats per minute, respectively; as well initial temperature was 39.0±0.1°C. Average of the values which indicate pain as heart and respiratory frequencies, as well as temperature were always less than values find before the pain’s potential stimuli to be applied to the dogs.

CONCLUSION: The results suggesting that the anesthesia protocol used is safe for semen collection by EEJ and can relieve the pain associated to this procedure.