

A TRIAL OF A PROPOFOL AND KETAMINE COMBINATION ON DOMESTIC SHORT HAIRE D CATS

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ABSTRACT

Trials were undertaken on domestic short haired cats to compare the anesthetic indices and haemodynamic changes of the combination of a 15 mg.kg⁻¹ intramuscular injection of ketamine (Ketalem®) and 4 mg. kg⁻¹ intravenous single bolus injection of 1 % Propofol (Propovan®) to that of an i.m. injection of 15 mg. kg⁻¹ of 5 % ketamine alone. In the course of this trial, the onset and duration of analgesia were respectively 2.3:t 0.3 minutes and 54.2 :t 5.7 minutes for the ketamine and propofol combination. However, there was no analgesia in cats that received only a ketamine injection. The duration of recumbency was significantly (P < 0.05) longer in cats that received ketamine and propofol combination (64.2:t 6.5 minutes) than cats that received ketamine alone (46.5:t 7.8 minutes). However, there is no significant differences (P> 0.05) in the heart rates (HR), respiratory rate (RR) and rectal temperature (RT) of the two groups of cats. It was therefore concluded that combination of ketamine and propofol may be additive at the hypnotic and anaesthetic end points in domestic short haired cats. The combination is therefore recommended for surgical procedures of short duration in cats.

Keywords:

anesthesia; domestic short haired cats; Ketalem®; ketamine hydrochloride; propofol; Proporan®; trial