THE COMPARISON AMONG DIAZEPAM, XYLAZINE AND ACEPROMAZINE AS PREMEDICATION OF ANAESTHESIA USING PROPOFOL IN CAT

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ABSTRACT

The objective of this research was to evaluate the comparison among diazepam, xylazine, and acepromazine as premedication of anaesthesia using propofol in cat. The application of propofol using three different kinds of premedication, duration of anaesthesia, heart rates, respiratory rates and body temperature of 20 female domestic cats with 2-3 kg average body weight (BW) was examined. The animals were randomly allocated into four groups. All group received atropine (0,04 mg/kg BW) as premedication and anesthetized with propofol (4 mg/kg BW). Group II (n=5), were administrated diazepam (0.5 mg/kg BW) before received propofol. Group III (n=5), the cats were received xylazine (1mg/kg BW) before injected with propofol. Group IV (n=5) received acepromazine (0.1mg/kg BW) before anesthetized using propofol. Measurement were done at five time points (before propofol administration, 5, 10, 15, and 20 minutes after injection of propofol). The duration of anesthesia did not differ ($P>0.05$) among groups I (1.50±0.54 min), group II (3.31±3.39 min) and group IV (4.02±1.59 min) but show significant differences with group III (16.84±0.64 min). Heart rate is high for group I and IV but lower at group II and III. The respiratory is no significant differences among group I, II, and III but high at group II. The body temperature isn't differrent among the groups. It can be conclude that xylazine is the best premedication of anaesthesia using propofol because it shows the easiest way for applying propofol, and also has the longest duration of anaesthesia. Xylazine as premedication produce the stability in heart rate comparing with diazepam and acepromazine. There is no significant depression in respiratory rate using xylazine as premedication, and xylazine also doesn't has any effect of body temperature.

Keywords : Anaesthesia, Premedication, Propofol, Diazepam, Xylazine, Acepromazine.