A COMPARISON OF ONSET AND DURATION OF ACTION BETWEEN KETAMINE AND COMBINATION OF DIPHENHYDRAMINE-KETAMINE FOR GENERAL ANAESTHESIA IN RABBIT (*Oryctolagus cuniculus*)

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ABSTRACT

This research was aimed to compare the onset and duration of action between ketamine and combinations of diphenhydramine-ketamine. Twenty adult male rabbits were divided into four groups of treatments and each treatments consist of five replications. Control group (P0) injected with ketamine 50 mg/kg of body weight. While treatments group (P1), (P2), (P3) were injected with diphenhydramine 1, 2, 4 mg/kg of body weight respectively. After 50 minutes, all groups injected with ketamine 50 mg/kg of body weight. The data were tested with ANOVA (Analysis of Variance) then continued with Duncan’s Multiple Range test (p<0.05). There is a significant difference of onset and duration of action between ketamine and ketamine-diphenhydramine groups. The best data of onset and duration of action were performed by group P2 which combined diphenhydramine 2 mg/kg of body weight with ketamine 50 mg/kg of body weight.

Key words: Ketamine, diphenhydramine, rabbit, anaesthesia, onset of action, duration of action.