KEY WORDS

- ✓ Propofol
- ✓ Rabbits
- ✓ Deep Sedation
- ✓ Infusion
- ✓ Anesthesia

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COMPARISON OF THE EFFECTS OF PROPOFOL APPLICATION ON DIFFERENT PHYSICAL AND BIOCHEMICAL VALUES FOR LONG-TERM DEEP SEDATION IN RABBITS

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GRADUATION DATE: 30.05.2023

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THESIS ABSTRACT

24 New Zealand Rabbits were used in the study. Rabbits were randomly divided into 4 groups as control and 6-12-24 hour infusion groups. In all groups, propofol was administered at a dose of 40-50 mg/kg/h for the first hour and then gradually decreased as the infusion time was prolonged. The heart rate, respiration rate, endtidal carbon dioxide level, oxygen saturation level and body temperature were monitored via a monitor during the infusion periods.

No pathologies such as bradycardia, arrhythmia, desaturation (<90%) were found in rabbits during propofol infusion performed for deep sedation for 6-12-24 hours. When the results were evaluated, it was seen that long-term infusion of propofol can be safely administered in rabbits for up to 24 hours.

APPLICATION AREAS OF THE THESIS RESULTS

In veterinary medicine, especially in the small animal clinics, poisoning, epileptic crises and trauma cases with different etiologies requiring long-term intensive care and anesthesia are often encountered in animals such as cats and dogs. Although such pathologies are often encountered, there are no published procedures for such applications in existence. This situation, creates deficiencies in veterinary medicine both in a diagnostic and therapeutic sense.

With the study we have carried out, a procedure will be created in the field of long-term deep sedation application, which is felt to be lacking in veterinary medicine, and it will be ensured that the application can be performed safely together with the data obtained from other studies to be performed.

ACADEMIC ACTIVITIES