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**Poster presentation**

**Evaluation of anesthesia in combination with dexmedetomidine, medetomidine, butorphanol, morphine and ketamine in terms of clinical and blood parameters**

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**Abstract**

In this study, dexmedetomidine, medetomidine, morphine and butorphanol combined with ketamine, the general anesthetic drug, has been used in clinical and experimental studies in order to achieve equilibrium anesthesia in desired duration and quality. The effects of the use of these drugs in various combinations on clinical and blood parameters were investigated. Twentyfour healthy adult cats were used in 4 groups. Subjects were evaluated in terms of clinical (respiratory rate, heart rate, blood pressure, capillary filling time, body temperature, conjunctival color, dehydration status), and hematological parameters. Six cats in the first group were treated with dexmedetomidine 0.01 mg/kg IM, then butorphanol 0.2 mg/kg SC and 10 minutes after 5 mg/kg IM ketamine was administered and the patients were intubated. Medetomidine 0.02 mg/kg IM was administered to in the second group, then butorphanol 0.2 mg/kg IM and 5 mg/kg IM ketamine was administered after 10 minutes and the patients were intubated. Dexmedetomidine 0.01 mg/kg IM was administered to in the third group, then morphine 0.1 mg/kg IM and 5 mg/kg IM after 10 minutes, and the patients were intubated. Medetomidine 0.02 mg/kg IM was administered to in the fourth group, then morphine 0.1 mg/kg IM and ketamine at a dose of 5 mg/kg IM 10 minutes after intubation. Onset of swallowing, onset of first movement, perception of sound and raising the head, sitting position and standing up, walking without coordination were realized in the third group at the earliest. It was determined that the best result was observed in the 3rd group during the awakening period. When the hematological data, respiratory, cardiologic and awakening periods were evaluated, it was found that the best data were in the dexmedetomidine and butorphanol group.

**Keywords:** Cat, anesthesia, combination

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