

NIVELUL SEROTONINEI SERICE ÎN ANUMITE BOLI VIRALE LA FELINE

SERUM SEROTONIN LEVEL IN CERTAIN FELINE VIRAL DISEASES

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ABSTRACT

Introduction: Viral diseases play an important role in feline medicine. Studies on feline viral diseases contribute to the health of other animals and subserve as important models for human viral diseases. **Methodology:** This study aimed to investigate the relationship between serum serotonin level and acute inflammation, stress and immunosuppression in feline panleukopenia (FP) and feline infectious peritonitis (FIP) and to emphasize that serotonin may have prognostic value. 36 client-owned, unvaccinated cats were used. Cats were included in the Healthy (n:12), Panleukopenia (n:12) and FIP (n:12) groups according to the results of clinical, hemogram examinations and rapid diagnostic test kits. **Results:** Body temperature, heart rate and capillary refill time were highest in the Panleukopenia Group ($p<0.000$). The respiratory rate was higher in the Panleukopenia and FIP group compared to the Healthy Group ($p<0.001$). WBC, lymphocyte, monocyte, granulocyte and erythrocyte levels were the lowest in the Panleukopenia Group when compared to the other groups ($p<0.032$). Hematocrit level was lower in cats with FP and FIP compared to healthy cats ($p<0.009$). Compared to the healthy cats, the cats with FP and FIP had higher serum serotonin levels ($p<0.035$). No statistical difference was found between the Panleukopenia and FIP groups. **Conclusion:** It was observed that higher serum serotonin levels may be observed in acute inflammation and it was concluded that the evaluation of serum serotonin level may provide information about the inflammatory state of the body and may have a prognostic value in monitoring the response to treatment in future studies.

Keywords:

feline panleukopenia, feline infectious peritonitis, serotonin, hemogram, stress

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1. INTRODUCTION

Viral diseases are particularly significant in feline medicine. Studies on feline viruses and viral infections are well-established that serves to improve and protect the health of domestic cats (Beatty and Hartmann 2021). Feline infectious peritonitis (FIP) is a fatal disease caused

by feline coronavirus (FCoV) variants (Jaimes et al., 2020). There are two pathotypes of feline coronaviruses: feline enteric coronavirus, which is the enteric biotype and feline infectious peritonitis virus (FIPV), which is the virulent biotype (Kipar and Mell, 2014). FIP is generally seen in cats younger than 2-3 years (Gülersoy and Ma-

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