

INTISARI

PROFIL HEMATOLOGI PADA KUCING TERDIAGNOSIS *FELINE* *PANLEUKOPENIA* (FPL) PADA LAYANAN MEDIK VETERINER DI WILAYAH YOGYAKARTA

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Kucing domestik merupakan satu-satunya spesies dari genus felis yang bertransformasi dari spesies liar dan soliter menjadi hewan pendamping manusia. Salah satu penyakit yang dapat menyerang kucing adalah *feline panleukopenia* (FPL) yang menyebabkan kematian hingga 90%. Penelitian ini bertujuan untuk menganalisa dan memahami profil hematologi meliputi jumlah leukosit, diferensial leukosit, total eritrosit, kadar hemoglobin, dan indeks eritrosit pada kucing terdiagnosis FPL. Data yang digunakan berupa hasil pemeriksaan hematologi 11 kucing terdiagnosis FPL dan 11 kucing sehat yang meliputi jumlah leukosit, diferensial leukosit (terdiri dari, monosit, eosinofil, basofil, neutrofil), jumlah eritrosit, kadar hemoglobin, *packed-cell volume* (PCV), *mean corpuscular volume* (MCV), *mean corpuscular hemoglobin* (MCH), dan *mean corpuscular hemoglobin concentration* (MCHC). Data ditabulasi serta dihitung rata-rata dan kisaran nilai. Analisis data dilakukan dengan metode deskriptif dan uji signifikansi menggunakan uji-t. Hasil penelitian pada kucing terdiagnosis FPL menunjukkan sebanyak 100% mengalami leukopenia dan neutropenia, 90,9% mengalami limfopenia, 27,3% mengalami anemia, dan 27,3% mengalami eritrositosis. Terdapat perbedaan yang signifikan ($p < 0,05$) pada jumlah eritrosit, PCV, kadar hemoglobin, jumlah leukosit, limfosit, neutrofil, dan eosinofil antara sampel yang diteliti dan kucing sehat. Tidak terdapat perbedaan yang signifikan ($p > 0,05$) pada jumlah basofil, MCV, MCH, dan MCHC.

Kata kunci: *feline panleukopenia*, jumlah leukosit, diferensial leukosit, total eritrosit, kadar hemoglobin

ABSTRACT

HEMATOLOGICAL PROFILE OF FELINE PANLEUKOPENIA (FPL)

DIAGNOSED CAT IN VETERINARY MEDICAL SERVICES IN

YOGYAKARTA

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The domestic cat is a species that transforms from a wild species into a human companion animal. Feline panleukopenia (FPL) is a disease that can infect cats with mortality rates up to 90%. This study aims to analyze and understand the hematological profile, including leukocyte and the differentials count, total erythrocytes, hemoglobin levels, and erythrocyte index in cats with FPL. Hematology examination of 11 cats with FPL and 11 healthy cats, including the number of leukocytes, lymphocytes, monocytes, eosinophils, basophils, neutrophils, erythrocytes, hemoglobin level, packed-cell volume (PCV), mean corpuscular volume (MCV), mean corpuscular hemoglobin (MCH), and mean corpuscular hemoglobin concentration (MCHC) were used in this study. The data is tabulated, mean and range of values are calculated. Data were analyzed using descriptive methods and significance testing using the t-test. The study's result showed that cats with FPL had 100% leukopenia and neutropenia, 90.9% lymphopenia, 27.3% anemia, and 27.3% polycythemia. There were significant differences ($p < 0.05$) in the number of erythrocytes, packed-cell volume (PCV), hemoglobin levels, and number of leukocytes, lymphocytes, monocytes, neutrophils, and eosinophils between samples and healthy cats. There were significant differences ($p < 0.05$) in the number of erythrocytes, PCV, hemoglobin levels, the number of leukocytes, lymphocytes, neutrophils and eosinophils between the studied samples and healthy cats. There was no significant difference ($p > 0.05$) in the number of basophils, MCV, MCH and MCHC.

Keywords: feline panleukopenia, leukocyte count, leukocyte differential, total erythrocytes, hemoglobin level