THE COMPARISON PROFILE OF Rhinolophus ERITHROCYT, LEUKOCYTE AND HEMOGLOBIN AT NATURAL AND TRAVEL CAVE IN GUNUNG KIDUL REGENCY YOGYAKARTA

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ABSTRACT

This research aims to determine differences of eritrocyte, leukocyte, hemoglobin count and differential leukocyte of *Rhinolophus* in a natural and travel cave at Gunung Kidul, Yogyakarta. This is an exploration research. The object of this study was Rhinolophus adults either male or female.The females are not pregnant or lactating. 10 samples of *Rhinolophus* derived from Cokakan Cave and 10 samples derived from Glatik Cave in Gunung Kidul, Yogyakarta. Bats captured using mist nets. Blood taken from the bat wing upper forearm (vein). The blood put in eppendorf tubes with the addition of EDTA powder. Then bats given honey and released. Blood samples were analyzed using the Hematology Analyzer Sysmex KX-21. Data were analyzed by Mann-Whitney and t test statistical analysis. This test to determine a significant difference in the comparison of the average of eritrocyte, hemoglobin, leukocytes bat from two caves with different management patterns. The average and differential leukocyte made into a bar chart to determine the difference in the average number of data. The results showed that there was no significant difference ($p > 0.05$) in the ratio of the leukocyte count and differential leukocyte in Cokakan Cave and Gelatik Cave. There is a tendency of the leukocyte count and differential leukocyte of *Rhinolophus* is higher in the Glatik Cave. But eritrocyte dan hemoglobin a tendency higher in Cokakan cave.

Kata Kunci: *Cave, Bats, Erithrocyte ,Leukocyte,Hemoglobin and Differential Leukocyte*