



ABSTRACT

STUDY OF BLOOD FIGURE ON SUMATRAN RETICULATED PYTHON (*Broghammerus reticulatus*)

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Blood sample having valuable route in diagnostic determination. So, blood samples needed, to understand the condition of the animal by using blood figure. The lack of accurate data of the blood figure is often an obstacle for veterinary practitioners to diagnose a disease or carry out therapies. The main materials use for this research were 15 blood samples consist of 5 samples from Medan, 5 samples from Palembang, and 5 samples from Lampung. Blood samples collected from coccygeal vein, then put in eppendorf tube with anticoagulant EDTA. Blood samples delivered to Laboratory of Internal Medicine Department, Faculty of Veterinary Medicine, University of Gadjah Mada in Jogjakarta for blood analyses. The examination result for average value of erythrocyte (RBC) was $1.10-1.96 \times 10^6$ with average of 1.57×10^6 ; hemoglobin value was range of 8.8-12.6 g% with average 10.75 g%; TPP value was range of 7.6-11.9 g% with average of 9.34 g%; PCV value was range of 24-35% with average of 28.87%; MCV value was range of 132.98-286.89 fL with average 189.95 fL; MCH value was range of 47.87-91.67 pg with average of 71.35 pg; MCHC value was range of 31.43-46.67 g/dL with average of 37.95 g/dL; heterophils value was range of $1.08-3.11 \times 10^3 \mu\text{L}$ with average of $2.17 \times 10^3 \mu\text{L}$; lymphocytes value was range of $0.59-2.19 \times 10^3 \mu\text{L}$ with average $1.17 \times 10^3 \mu\text{L}$; monocytes value was range of $0.21-0.58 \times 10^3 \mu\text{L}$ with average of $0.33 \times 10^3 \mu\text{L}$; azurophils value was range of $0-0.095 \times 10^3 \mu\text{L}$ with average of $0.022 \times 10^3 \mu\text{L}$; basophils value was range of $0-0.048 \times 10^3 \mu\text{L}$ with average of $0.007 \times 10^3 \mu\text{L}$. It need further research with more samples and various of locality.

Keywords : Blood figure, snake, reticulated python, Sumatera



INTISARI

STUDI GAMBARAN DARAH PADA ULAR SANCA BATIK SUMATRA (*Broghammerus reticulatus*)

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Sampel darah memiliki nilai yang berharga dalam penentuan diagnosis. Pengetahuan tentang gambaran darah diperlukan untuk memahami kondisi hewan. Kurangnya data yang akurat tentang gambaran darah sering menjadi kendala bagi praktisi hewan untuk mendiagnosa penyakit atau menentukan terapi. Lima belas (15) sampel darah ular sanca batik lokaliti Sumatra digunakan untuk penelitian ini, terdiri 5 sampel dari Medan, 5 sampel dari Palembang, dan 5 sampel dari Lampung. Sampel darah dikoleksi dari vena koksigea, ditampung dalam tabung eppendorf ber-EDTA dan dikirim ke Laboratorium Departemen Ilmu Penyakit Dalam Fakultas Kedokteran Hewan Universitas Gadjah Mada untuk analisis darah. Hasil analisis sampel darah ular penelitian untuk nilai rata-rata eritrosit (RBC) adalah berkisar $1,10-1,96 \times 10^6$ dengan rata-rata $1,57 \times 10^6$; hemoglobin berkisar 8,8-12,6 g% dengan rata-rata 10,75 g%; TPP berkisar 7,6-11,9 g% dengan rata-rata 9,34 g%; PCV berkisar 24-35% dengan rata-rata 28,87%; MCV berkisar 132,98-286,89 fL dengan rata-rata 189,95 fL; MCH berkisar 47,87-91,67 pg dengan rata-rata 71,35 pg; MCHC berkisar 31,43-46,67 g/dL dengan rata-rata 37,95 g/dL; heterofil berkisar $1,08-3,11 \times 10^3$ uL dengan rata-rata $2,17 \times 10^3$ uL; limfosit berkisar $0,59-2,19 \times 10^3$ uL dengan rata-rata $1,17 \times 10^3$ uL; monosit berkisar $0,21-0,58 \times 10^3$ uL dengan rata-rata $0,33 \times 10^3$ uL; azurofil berkisar $0-0,095 \times 10^3$ uL dengan rata-rata $0,022 \times 10^3$ uL; dan basofil berkisar $0-0,048 \times 10^3$ uL dengan rata-rata $0,007 \times 10^3$ uL. Perlu dilakukan penelitian lebih lanjut dengan jumlah sampel yang lebih banyak dan variasi lokaliti yang lebih luas.

Kata Kunci : Gambaran darah, ular, sanca batik, Sumatera