COMPARATIVE STUDY ON HEMATOLOGICAL PROFILES IN DIFFERENT SPECIES OF POULTRY

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Hematological profile in Japanese quail, Guinea fowl and White Leghorn (WLH) chicken reared under intensive system of management were studied at Institute of Poultry Production and Management, TANUVAS, Chennai. Blood parameters like Hemoglobin (g %), Packed Cell Volume (PCV %), RBC (X10^6/μl) and WBC (X10^3/μl) in Japanese quail, Guinea fowl and WLH were differed significantly (P<0.01) between species and the values were 12.13±0.40, 36.83±2.34, 2.78±0.11 and 23.90±0.60; 11.63±0.57, 33.16±0.83, 2.38±0.16 and 26.76±1.15; and 8.80±0.45, 26.16±1.04, 2.03±0.02 and 30.70±1.16 respectively. In differential count (%) lymphocytes, monocytes, eosinophils differed significantly (P<0.01) between species. Heterophils and basophils were not differed between species. The per cent values of heterophils, lymphocytes, monocytes, eosinophils and basophils were 47.00±7.47, 52.16±7.55, 2.16±0.16, 0.66±0.33 and 0.83±0.83 in Japanese quail; 53.33±3.73, 39.33±4.26, 3.33±0.49, 3.83±1.37, and 0.16±0.16 in Guinea fowl; 52.50±5.53, 35.00±2.64, 6.50±2.29, 4.33±1.68 and 0.16±0.16 in WLH.

Key words: Hematological profile, Japanese quail, Guinea fowl, Chicken.