

**ERITHROCYTE COUNT, HAEMOGLOBIN LEVEL AND PACKED CELL VOLUME (PCV) IN DOMESTIC CHICKEN (*Gallus domesticus*) NATURALLY INFECTED BY *Plasmodium* sp. IN PASURUAN DISTRICT**

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**ABSTRACT**

The aim of this study was to determine Erythrocyte value, haemoglobin level and packed cell volume (PCV) in domestic chicken (*Gallus domesticus*) naturally infected by *Plasmodium* sp. in Pasuruan District. This research used 23 blood samples collected from 23 domestic chicken in pasuruan district. The blood samples were collected from brachial veins of domestic chickens by veinpuncture. Blood films stained with Giemsa stain. *Plasmodium* sp. was found in 15 blood samples, 3 samples were negative *Plasmodium* sp. and 5 samples collected from normal chickens as control. Erythrocyte value was determined by Natt\_Herricks method, PCV by microhaematocrit method, and hemoglobin by cyanmethemoglobin method. The data result was analyzed by T-test. The result showed that there was non significant difference ( $p > 0.05$ ) hematological parameters of control and non-infected chickens and significant difference ( $p < 0.05$ ) hematological parameters of control and naturally infected chickens with *Plasmodium* sp. The hematological parameters naturally infected chickens were decrease.

**Keyword:** Anemia, domestic chicken, erythrocytes, haemoglobin, PCV, *Plasmodium* sp.