THE EFFECT OF ELECTROLYTE AND MULTIVITAMIN SUPPLEMENT ON DUODENUM HISTOPATOLOGY OF HEAT STRESSED BROILER

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ABSTRACT

The purpose of this study was to analysed the effect of multivitamine and electrolyte supplementation on duodenum heat stressed broiler. Twenty broilers with 3 weeks of ages were divided equally into four different groups and each group consist of 6 and separated into 2 different chamber ( A and B ). One group ( control=P0 ) was exposed with standart temperature ( 21-23°C ) chamber A, while the others (P1 ; P2 ; P3) were caged at high temperature ( 34,5-35°C ) chamber B. Group P1 administrated with water, group P2 and P3 administrated respectively with normal electrolyte and multivitamine dose ( 1 gram/ 4 lt water ) and double dose ( 2 gram/ 4 lt water ). Seven days after treatmen, all broilers were sacrificed for small intestine histopathology examination. Collected data for small intestine histopathological changes was analysed through Kruskal-Wallis test. This study showed that double dose supplementation of multivitamin and electrolyte can inhibit the changes of small intestine pathology on heat- stressed broiler.

Keywords: Heat stress; multivitamine and electrolyte