

**THE EFFECT OF CHRONIC HEAT STRESS EXPOSURE ON THE
RATIO OF HETEROPHILS AND LYMPHOCYTE (H:L)
IN BROILER BLOOD**

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ABSTRACT

The aim of this study is to find out the effects of chronic heat stress on ratio between heterophils and lymphocyte of broiler. Twenty broilers with 3 weeks age divide into two different groups. Group one is for control (P0) with ten broilers stay in a cage with joyful condition and group two is for treatment (P1) with ten broilers stay at the cage with heat stress exposed. It happened for 3 weeks. After that, collect data of the blood of ten broilers to check the heterophils and lymphocyte. After got the data, data was analyzed with independent T test. The result is chronic heat stress significantly increasing ratio of heterophils and lymphocyte $p = 0,000$ ($p < 0,05$). The conclusion of this research is chronic heat stress could decrease the lymphocyte and increase the heterophils, and increase the ratio of heterophils and lymphocyte, which is this ratio could be the indicator of stress in Broiler.

Keywords : heat stress, leukocyte, heterophils, lymphocyte, broiler.