HISTOPATHOLOGICAL CHANGES OF BROILER (Gallus gallus domestica sp) BURSA FABRICIUS EXPOSED TO CHRONIC HEAT STRESS

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ABSTRACT

The aim of this research was to know histopathological changes of broiler bursa fabricius exposed to chronic heat stress. Twenty broilers were randomly divided into two groups and exposed to chronic heat stress for 21 days. The first 21 days were the adaptation period in a room with temperature 24-28°C and humidity 40-55%. After 21 days, continue with exposure to heat stress in a room with temperature 36-40°C and humidity 40-60% in 8 hours per day. After exposed to chronic heat stress, bursa fabricius tissues were processed, and bursa fabricius tissue histopathological changes were examined using the Krishnamoorty scoring method. The result of groups which exposed to chronic heat stress showed significant difference comparing to control group (p<0.05). The control group (T0) showed mean and standard deviation 1.184 ± 1.01^a than the treatment group (T1) $3.54 \pm .680^b$. The results showed that chronic heat stress exposure causing the presence of cysts, depletion, fibrosis, atrophy and fibroplasia.

Key words: chronic, heat stress, bursa fabricius, broiler