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INFLUENCE OF INCREASED NOISE LEVEL ON PHYSIOLOGICAL STATE OF BROILER CHICKENS IN INDUSTRIAL CONDITIONS

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ABSTRACT

The effect of noise with the sound level of 100 dB on broiler chicken body of the Hubbard F15 cross was studied in present work. Based on the analysis of the leukogram parameters, leukocyte index dynamics, it was established that the stress anxiety stage manifests itself 24 hours after the factor exposure, because by this time there is the decrease of lymphocyte content with a simultaneous increase of segmented neutrophil (heterophiles) number, the ratio of heterophiles to lymphocytes (H/L), and blood leukocyte shift index (BLSI). The effect of the studied sound level caused significant changes in the hematological and biochemical parameters of the chicken blood, so there was a significant change in total protein content, transamination enzymes Alanine aminotransferase (AIAT), Aspartate aminotransferase (AST), α -amylase, glucose, immunoglobulins, erythrocytes, hemoglobin, and leukocytes. These changes in the blood system can characterize the activation of the energetic and protective properties of the poultry body to prevent stress.

Keywords: Adaptation, biochemical parameters, hematological parameters, leukogram, leukocyte indices.