

THE STATE OF CELLULAR AND HUMORAL IMMUNE RESPONSE IN CHICKEN BROILERS UNDER THE INFLUENCE OF THE SYNBIOTIC PREPARATION IN THE COMPLEX WITH AQUEOUS SOLUTION OF IODINE AND SELENIUM

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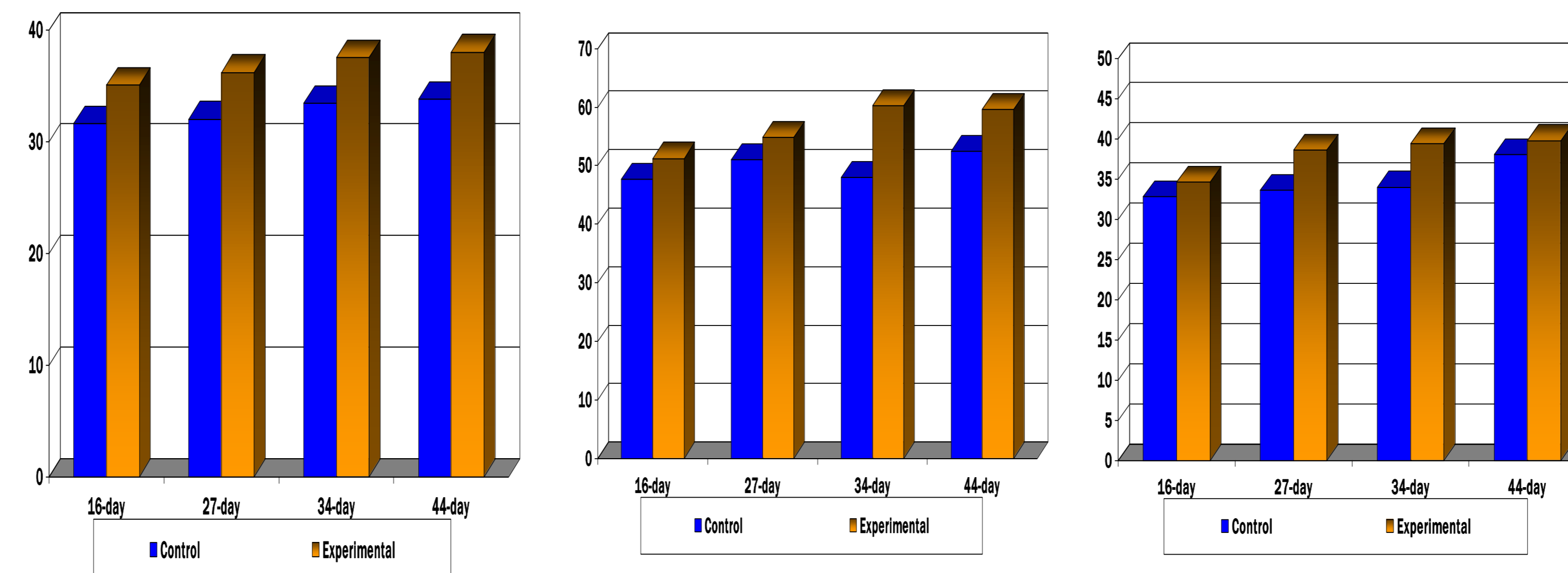
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Introduction

Significant prospects in this direction are opened for the use of probiotics. Synbiotic drugs can be a significant alternative to feed antibiotics and serve as growth stimulants and immunobiological reactivity. Given this, the purpose of the work was to find out the influence of the synbiotic drug "Enteronomin" activated by aqueous solution of iodine and selenium, on the state of cellular and humoral immunity of broiler chickens during the period of their cultivation.

T-lymphocytes (general, active and theophylline resistant)



Results

The use of chickens in the diet of the synbiotic drug "Enteronomin" in a complex with iodine and selenium led to an increase in the number of T-lymphocytes (general, active and theophylline resistant) and in-lymphocytes in the blood and increased their functional activity by reallocating the receptor apparatus of immunocompetent cells.

Material & Methods

The research was carried out in one ens-broilers of the Cross Ross-308, starting with 1- to 41 daily age. The maintenance of chickens was in poultry houses with free access to feed and water, technological parameters of growing broilers (temperature and light regime) in accordance with the norms of OTP-2005. For studies, 2 groups of chickens broilers were formed: control and experimental groups, 100 individuals in each. The control group of poultry fed standard feed (SC) according to existing norms recommended for the ROSS-308 cross. Chickens-broilers of the experimental group were similarly fed synbiotic drug "Enteronomin" with a dose of 1.0 g per 100. The next set - in 14- and 24-day age (also a dose of 1.0 g per 100/ day, five consecutive days). Before use, the study preparation was activated 14-16 hours. Water enriched with ions of biologically active iodine and selenium in the form of "iodis + se". Together with these broilers of the experimental group, this preparation has flown with water throughout the experiment. For immunological research in chickens took blood at various age periods: 16-, 27-, 34- and 41-day age.



Conclusions

The positive effect of these immunotropic agents on the indicators of cellular and humoral components of nonspecific resistance of the organism, growth and poultry preservation are stated. As evidenced by higher ($p < 0.05-0.01$) lysozymic activity of serum and phagocytic activity of pseudo-reactions in the blood of the experimental chickens in relation to the control group. The optimizing effect of the study preparation on the level of circulating immune complexes in serum is revealed.

Day	vaccine	leading
11	BRONHIKAL® I SPF (Хорватія)	feeding
13	BIO-VAC La-Sota (Італія)	feeding
15	GUMBOKAL IM FORTE SPF (Хорватія)	feeding