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VOLUME OF PRODUCTION OF CHICKEN EGGS UNDER THE INFLUENCE OF THE DRUG CUFESTROL

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АННОТАЦИЯ

Ушбу мақолада куфестрол препаратининг товуқлар тухум маҳсулдорлигига ҳамда айрим гематологик кўрсаткичларига таъсири тўғрисидаги маълумотлар келтирилган.

SUMMARY

This article provides information about effect of kufestrol on chicken egg productivity and some hematological parameters.

Keywords: Biostimulator, kufestrol, hematology, Ekomiks, premix, BIOBASE BK6190 analyzer, Mindray BA-88A analyzer, erythrocytes, hemoglobin, total protein, glucose.

RELEVANCE OF THE TOPIC

Today, poultry farming is one of the fastest growing industries in the world. Poultry farming is an important branch of animal husbandry, producing eggs, poultry and meat products, flags and feathers. Therefore, increasing the number of poultry farms, their rational use, increasing the productivity of chickens has a great scientific and practical importance.

As a result of radical reforms in the poultry industry in the country, the number of poultry is increasing year by year and its productivity is increasing. Research is also underway on the use of various pharmacological preparations to increase the productivity of poultry.

PURPOSE OF THE RESEARCH

Study of the effect of the natural biostimulant kufestrol on hematological parameters and egg productivity of chickens.

OBJECT AND METHODS OF RESEARCH

The research was carried out at the private research and production farm poultry named “Uktam” located in Zhambay district of the Samarkand region. 3000 90-day-old Lohmann LSL hens were selected and divided into 3 groups of 1000 heads each.

The chickens of the first control group were fed only on the basis of the farmer's diet, in addition to the ration of chickens of the second experimental group, 15 g "Kufestrol" was added per 1 ton to compound, to the diet of chickens of the third experimental group, 1 kg per 100 kg of compound feed "Ekomiks". Experimental chickens were clinically examined once every 30 days. The experiments lasted 180 days.

The effectiveness of used preparation evaluated by the intensity of laying hens. Blood morphological parameters were determined on a BIOBASE BK6190 hematological analyzer, serum biochemical parameters were determined on a Mindray BA-88A semiautomatic analyzer.

RESULTS OF THE RESEARCH

In our experiments, the period for the onset of egg production was 108 days in the first experimental group, 115 days in the second experimental group and 120 days in the control group. That is, the hens of the second experimental group laid eggs 12 days earlier than in the control group, and 7 days earlier than in the third experimental group. (Table 1)

Table 1 Egg productivity of chickens (in%)

Groups	Age of chickens, day					
	120	150	180	210	240	270
1st control	5	42	55	65	78	80
2nd experimental	10	60	72	81	87	91
3rd experimental	7	51	60	70	80	85

Egg productivity of chickens in the first control group averaged 80%, in the second experimental group 91%, in the third experimental group 85%. It can be seen that the egg productivity of chickens of the second experimental group using Kufestrol was 6% higher than in the third experimental group and 11% higher than in the control group.

The study of the effect of the drugs used on the physiological state of chickens by determining blood parameters is widely used as one of the important research methods, since changes in the blood reflect changes in the whole organism. The results of the study of some morphobiochemical parameters of the experimental blood of chickens are presented in table. 2.

Table 2 Hematological parameters of chickens blood, n±30

Parameters	Groups					
	1st control		2nd experimental		3rd experimental	
	B.E	E.E.	B.E	E.E.	B.E	E.E.
Erythrocyte, 10^{12}/l	3,24±0,04	3,68±0,05	3,12±0,02	3,96±0,05	3,20±0,02	3,76±0,05
Leukocyte, 10^{9}/l	34,8±0,40	39,2±0,49	34,4±0,37	40,4±0,49	34,6±0,12	40,2±0,80
Hemoglobin, g/l	92,4±2,52	94,3±2,52	93,2±2,29	106,0±2,46	93,2±1,52	99,8±1,63
Total protein, g/l	47,04±2,09	50,20±0,81	46,66±1,88	59,38±2,50	46,94±1,96	55,34±1,06
Glucose, mmol/l	13,46±0,14	13,88±0,22	13,38±0,40	15,34±0,17	13,240,19	14,98±0,22

Note: B.E.- at the beginning of the experiment; E.E.- at the end of the experiment.

At the beginning of the experiment, the number of erythrocytes, leukocytes, hemoglobin in the blood was the same in all groups. By the end of the experiment, the number of erythrocytes increased from 3.24±0.04 to 3.68±0.05 1012/l in the control group and from 3.12±0.02 to 3.96±0.05 1012/l in the second experimental group, in the third experimental group increased from 3.20±0.02 to 3.76±0.05 ·1012/l.

By the end of the experiment, the number of leukocytes increased from 34.8±0.40 to 39.2±0.49 109/l in the control group and from 34.4±0.37 to 40.4±0.49 109/l in the second group. experimental group, in the third experimental group it increased from 34.6±0.12 to 40240.2±0.80 ·109/L.

The level of hemoglobin in the second experimental group increased to 106.0±2.46 g/l compared with the control group and the third experimental group.

The level of total blood protein was 50.20±0.81 g/l in the first control group, 59.38±2.50 g/l in the second experimental group and 55.34±1.06 g/l in the third experimental group. In the second experimental group, in which kufestrol was used, it was found that the content of total protein increased compared to other groups.

The glucose level was 13.88±0.22 mmol/l in the first control group, 15.34±0.17 mmol/l in the second experimental group and 14.98±0.22 mmol/l in the third experimental group. It was noted that all of the above hematological parameters were higher in the second experimental group, in which Kufestrol was used, than in the control group and the third experimental groupIt can be seen that the drug kufestrol has a high pharmacostimulatory effect on chickens.

CONCLUSIONS

1.Addition of Kufestrol preparation 15 grams per 1 ton to the ration of laying hens from 90 days old during the 180 days provides that hens onset of egg production starts 108 days of age, i.e. 12 days earlier than other groups, and that egg productivity is 11% higher.

2. Mixing Kufestrol in the amount of 15 g per 1 ton of feed increased the number of erythrocytes in the blood of chickens by 3.96±0.05 1012/l, leukocytes by 40.4±0.49 109/l, hemoglobin by 106.0± 2.46 g/l. , total protein increased by 59.38±2.50 g/l and glucose by 15.34±0.17 mmol/l.

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