

DYNAMICS OF SOME INDICATORS OF SHEEP BLOOD

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Summary. In the physiological stages of postnatal ontogeny of sheep in different natural conditions, serum albumin and glucose show specific dynamics of changes in relation to living conditions. The changes in the blood of sheep were mainly returned at 6 months and 60 months of postnatal ontogenesis at the highest rate.

Key words: sheep, postnatal ontogeny, albumin, glucose, blood, living conditions.

Enter. The main plasma protein - albumin and glucose in the blood is the main one, it makes up 60% of all existing proteins and has a very important functional purpose.

It was noted that the synthesis of protein and glucose in the body of a growing animal is one of the urgent problems. According to the authors, the laws of protein biosynthesis are somewhat complex and multifaceted, and many aspects, such as the relationship between youth, growth rate, and protein biosynthesis in the organism of small horned cattle, are complete. remains unexplored. The genetic power of sheep productivity allows to get up to 500 g of product per day. Animals growing at such a speed spend most of their food and energy on growth. The authors also admit that the mechanism responsible for the accumulation of lipids in relation to proteins in tissues and organs with the maturation of the animal organism has not been revealed to the end.

Absolute indicators of the thickness of the proximal and distal epiphysis of the shoulder bone were studied in postnatal ontogenesis of broiler chicks belonging to the Ross 308 cross. Absolute indicators of the thickness of the proximal and distal epiphysis of the shoulder bone have been found to have specific growth dynamics during the postnatal development of chicks. Absolute indicators of the thickness of the proximal and distal epiphysis of the shoulder bone were observed to be especially high in broiler chicks from the experimental group that received probiotics after 14 days of postnatal ontogenesis compared to those in the control group.

When the chemical composition of the meat of 8-month-old rams was studied, 71.25% of water, 9.05% of fat and 18.70% of protein were recorded. Also, the broad shoulder muscle of 8-month-old Volgograd sheep has 72.64% water, 7.11% fat, and

19.32% protein in its chemical composition; 18-month-olds have 72.72% water, 7.01% fat and 19.33% protein.

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With the introduction of Nat-Min 9000 mineral supplement into the diet of sheep, a high amount of total protein was observed in the blood of experimental animals. Thus, in the second experimental group, the difference with the control was 4.4%, in the third - 5.1%, and in the fourth - 8.0%. However, the albumin-globulin ratio was the same in all groups, except for animals fed with a 2% supplement by feed weight. High blood globulin fraction was observed in these animals. Triglycerins in the blood are carriers of antibodies and perform a protective function. It was determined that the observed changes in the amount of globulin in the blood of sheep may be related to the reaction and formation of the animal organism to the introduction of 0-1 mm grinding additive.

The biology of animals and birds, its morphological and functional characteristics, is based on knowledge of the organs of the digestive system, which participate in the metabolic and energy processes of the body. Studying the morphology of the stomach as the most important organ of the digestive system is of theoretical and practical interest for veterinary medicine.

Inspection method and materials. Research works on sheep in Boysun district of Surkhandarya region.

Blood serum albumin and glucose of animals at 3-day, 3-, 6-, 12-, 18-, 36-, and 60-month stages of postnatal ontogenesis were carried out for scientific investigations.

Before feeding the sheep in the morning, blood was taken from the jugular vein, blood plasma was separated and taken into a test tube (sterile 22GX1-1/2), and the samples were sent to the Pathomorphology Laboratory of the "Department of Animal Anatomy, Histology and Pathological Anatomy" of the Samarkand Institute of Veterinary Medicine, Biochimichiski Humanstar -100 was determined on the device

All numerical data obtained as a result of scientific investigations were subjected to mathematical processing according to the method of K. Merkuryeva.

Mathematical-statistical analysis was performed using the Student's and Fisher's criteria in the computer's Microsoftexcel spreadsheet.

The obtained results and its discussion. As a result of scientific investigations, it was observed that the albumin and glucose in the blood plasma of the sheep kept in natural conditions for 3 days, 3, 6, 12, 18, 36 and 60 months, animals at different physiological stages of postnatal development showed specific changes.

The albumin index in the blood of sheep increases from 3.37 to 3.46 from 3 days to 3 months of postnatal ontogeny, reaching 3.15 at 6 months, 3.27 at 12 months, and 3.22 at 18 months, 36 3.37 per month and 3.68 per 60 months. The highest level of postnatal ontogeny of sheep blood albumin was 3.68 at 60 months and the lowest level was 3.15 at 6 months.

The index of glucose in the blood of sheep increases from 0.8 to 1.8 from 3 days to 3 months of postnatal ontogeny, with a sharp drop at 6 months, i.e. to 0.4, at 12 months to 1.3, at 18 months to 1.2 It was observed that at 36 months it showed a significant decrease in proportion to its linear dimensions by 0.6 and at 60 months it showed a result of 1.2.

The highest level of glucose in the blood of sheep was 1.2 at 60 months of age, and the lowest level was 0.4 at 6 months of age.

Conclusions:

The increase of glucose and albumin in the blood serum of sheep, in proportion to the physiological state of the animal body, regardless of their living conditions, during the period up to the first 3 months of postnatal ontogenesis, and compared to all ages studied, it is the highest at the 60-month stage. was observed to show the indicator;

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