THE FEATURES OF MESENTERY JEJUNUM VESSELS IN HENS WITH DIFFERENT TYPES OF AUTONOMOUS TONE

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The typological features of autonomous tone reflect in the indicators of mesentery vessels of jejunum. The mesentery jejunum is characterized by the increased number of blood vessels while the increased parasympathetic tone, in comparison with the state of sustainable sympathicotonia.

First of all it should be noted that the square of mesentery segments along the jejunum does not have the clear dynamics. The last segments of mesentery in the both types of autonomous tone is the lowest. Their average square vary in the beginning of the intestine from 2 to 3 cm², and in the end of the intestine from 1 to 2 cm². In the middle part of the intestine the square of mesentery segments growth in large, but this process is a kind of chaotic and thus, the large segments (till 14 cm² – in sympatotonics and till 10,5 cm² – in sympato-normotonics) combines with the smaller (till 7 cm² – in sympato-tonics and till 4,5 cm² – in sympato-normotonics). However, the average square of mesentery segment was larger in hens with clear sympatotonia and was 7,3±0,27 cm². In hens with the increased tone of parasympathetic centers (6,2±0,17 cm²) it was for 1,1 cm² smaller (p<0,001). The decreasing of the square of inter vascular cells combines with the increasing of the square of mesentery, occupied by the blood vessels of different types. Thus, in hens sympatotonics in the mesentery segment of 1 cm² the part of vessels is 13,4±0,33 %. This is for 1,7 % lower than in sympato-normotonics – 15,1±0,51 % (p<0,05).

The total number of direct arteria was calculated as well, that move away from the mesentery segments in the wall of jejunum. Herewith it was observed that the given data in hens with sympatotonic type of autonomous regulation (102,3±11,24 artery) is largely lower in comparison with the poultry with sympato-normotonic type of total tone of autonomous centers (127,4 ± 14,08 artery). Thus, the difference between the groups is 25,1 arteria or 24,5% (p<0,01). This indicates the increasing of the tone of parasympathetic centers and promotes the increasing of the vascularization of jejunum wall in hens. However, for complete confirmation of this conclusion, it is necessary to conduct rheological study.

The increasing of the number of blood capillaries of mesentery and their order
in several layers and the forming of "vessels islands", probably is the preparation stage for further disposition of fat in these areas

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