

FEATURES OF TOPOGRAPHY AND STRUCTURE OF DUCKS JEJUNUM PEYER'S PATCHES IN THE AGE OF 150–240 DAYS

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The immune (lymphoid) formation associated with tunica mucosa of the digestive tube is one of the first parts of peripheral immune organs that are constantly exposed to antigens, entering the body of animal with feed and water. Immune reactions, which are directed at neutralizing of antigens and release the body from them, develop as response to the antigens.

Lymphoid tissue form morphofunctional base of immune formations associated with tunica mucosa. It presents diffuse and nodular forms in the intestinal tunica mucosa of animals. Lymphoid nodules are located singly and in groups (aggregates). Last one is formed immune formations, specific named in poultry: tonsils and Peyer's patches. Tonsils are located in the cecum and Peyer's patches – in other intestines. Literary sources about Peyer's patches topography and structure of ducks intestine are isolated and scattered, lead in the goal of our research.

We examined the features of topography and structure jejunums' Peyer's patches of ducks in age 150-240 days.

Three Peyer's patches are defined in a jejunum of ducks. Their form is the closed ring-shaped tapes which are located on perimeter in intestine. Its length and width decreases at 150–240 day-old ducks. The lymphoid tissue in Peyer's patches of jejunum is defined in a mucosa and in muscularis. The diffuse lymphoid tissue and secondary lymphoid nodules are presented in mucosa of all age groups of ducks. And only secondary lymphoid nodules are registered in muscularis at 150–240 day-old ducks. The content of lymphoid tissue and its separate forms in Peyer's patches of jejunum changes with age of the bird. It decreased in mucosa of investigated poultry. Content of diffuse lymphoid tissue is increased, and secondary lymphoid nodules – is reduced. Content of lymphoid tissue that is presented secondary lymphoid nodules decreased in the tunica muscularis.

Ducks, jejunum, tunica mucosa, tunica muscularis, Peyer's patches, lymphoid tissue, diffuse lymphoid tissue, secondary lymphoid nodules