ETIOLOGY, PATHOGENESIS AND PATHOMORPHOLOGY OF TUBERCULOSIS

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Summary. The article describes the ways in which farm animals spread tuberculosis. Different macroscopic and microscopic changes in the organ and organism in different animals have been shown to be characteristic of tuberculosis.

Keywords. Tubercles, acinosis, lobar, lobular, necrosis, lymphoid cells, caseosis.

Tuberculosis is a chronic disease of animals and humans, the causative agent of which is mycobacteria, and its characteristic feature is the formation of special inflammations. In natural conditions, the disease is transmitted through respiratory and digestive tracts. The disease occurs in all kinds of animals and birds. Tuberculosis Y.SH.H. in children, it is more pronounced than in animals.

Horses are less sensitive, and the damage is characterized by the formation of miliary nodules in the lungs.

In pigs, miliary tubercles are formed due to infection with cattle and human mycobacteria.

Tuberculosis is rare in sheep.

In goats, it is more susceptible than in sheep, and it is characterized by the development of lobular and lobar pneumonia in the lungs.

In dogs and cats, it is characterized by the development of pneumonia and pleurisy, passing in the form of exudative tuberculosis.

In poultry, depending on the methods of damage, in the lungs and digestive organs, in ducks and geese, the main change is in the lungs.

In chickens, it is characterized by the formation of miliary tubercles in the liver and intestines.

Disease-specific nodules in parenchymatous organs; mucus is formed in the membranes. In mammals, primary complexes are found in the lungs. In it, several nodules are formed under the pleura, the injury occurs in one part or several parts of the lung. In the center of the nodules, a fluid tissue is formed around the curd mass. Caseous foci are formed in lymph nodes in various forms. Primary foci in intestines are rare. The process is characterized by the formation of nodules in the lymph nodes of the colon. The increase of tuberculosis is caused by the reaction of the vessels around

the foci of tuberculosis and the infusion of serum exudate. In the increase of tuberculosis, the body's protective function is impaired, its resistance decreases, nutrition is disturbed, and living conditions deteriorate. Violation of zoohygiene requirements causes disease.

Poor living conditions, insufficient nutrition, failure to meet zoogenic requirements in the barn where the animal is kept. It allows the bacteria that cause tuberculosis to multiply in the tubes of tuberculosis. It is added to the liquid flowing from the tuberculosis center and forms tuberculosis centers in healthy tissues. Sometimes the lymph gets to other organs through blood vessels and forms tuberculosis foci, which form nodules the size of a millet grain (millets). It is characterized by the formation of large nodules in the foci of tuberculosis with a large focus. The color of the nodules is white or yellowish, and necrotic tissue is formed in the center of the nodule. Tuberculosis YShH, 0.3% of cows can be infected through the embryo. In poultry, it can be transmitted through eggs. In addition, it is possible to get sick through animal products and in cases of contact. The spread of tuberculosis in domestic animals can be caused by three different types of mycobacteria Caromips (bovis), in humans (humames), and in birds (tuberculosis avium) under natural conditions through the respiratory tract and digestive tract. Nodules, which are characteristic signs of tuberculosis, consist of solid, rounded, nodule-shaped, yellowish, fluid-colored mass, and the presence of a pear-shaped mass can be felt upon palpation.

The clinico-anatomic structure of tuberculosis differs between primary and secondary tuberculosis complex. When mycobacteria enter the respiratory tract, primary foci begin in the lungs and lymph nodes. Mycobacteria spread through blood and lymph to the organs where there are conditions for their multiplication, causing characteristic pathomorphological changes in the lungs, mucous membranes, lymph nodes, stomach, intestines, uterus and udders. If tuberculosis (in mammals - lungs, in birds - liver) is in the organ and lymph nodes around it, it is called a complete primary complex. If it is only in the lymph nodes, it is called an incomplete primary complex. If the primary complex is in several organs and systems, it is called a complex primary complex. For example, it occurs in the respiratory and digestive organs, and in many cases in the small and large intestines. In the miliary tract, tubercles are formed in the intestinal mesentery. Tubercles are formed in the lung parenchyma and under the pleura.

In the case of osteomyelitis, the bones shrink without protruding. Many tubercles are formed in the bone marrow. A caseous mass is formed only in large tubercles. Tuberculosis infectious granuloma is very large in structure, considered as the main pathomorphological indicator in tuberculosis. The changes in the tubercle granuloma are productive inflammation, and some of them can be exudative. Most often, these inflammations occur in the lungs, lymph nodes,

Conclusion. To diagnose tuberculosis, it is characterized by the presence of lesions characteristic of the disease in organs and regional lymph nodes and the presence of tubercles typical of tuberculosis in the foci. In horses, from manka, many Y.Sh.H. It is necessary to diagnose actinomycosis and parasitic pneumonia, pleuritic diseases.

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