THE INFLUENCE OF DIFFERENT DOSES OF BIOVIR ON LABORATORY ANIMALS

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The intensive development of pharmaceutical industry of Ukraine, including veterinary, led to the emergence a large number of medicines of different origin and destination. But, for the successful implementation and use of the newly created medicines in practice of veterinary medicine important is to achieve the maximum of pharmaco-therapeutic effect. In addition, the medicines should be non-toxic, and the way of introduction to the body the most simple.

Therefore all newly created drugs should undergo preclinical testing, in particular the definition of acute and chronic toxicity, cumulative properties and installation side effects of the drug, etc. However, very important stage of preclinical studies is the determination of the effective dose of study product, it is a dose that causes a positive pharmacological effect.

Nowadays the new and the most promising class of drugs are biologically active drugs of natural origin. To them belong products that was made from bacterial cell walls of gram-positive microorganisms. Such drugs can increase the overall resistance and show immune-stimulatory effects on the body.

During the introduction of different doses of biologically active product containing peptidoglycan different strains of lactic acid bacteria was set the positive changes in hematological blood parameters, particularly in laboratory animals found an increase in concentration of hemoglobin, amount of leukocytes and erythrocytes in comparison to the animals of the control group.

By the determination the concentration of total protein and their fractions in blood serum was set an increase the level of total protein, an amount of albumin and concentration of γ-globulin in animals of the all experimental groups, that indicate on activation of protein synthesis function of liver. Expressed pharmacological effect among all research groups found out in animals that get drug in the dose of 12,5 mg/kg of body weight.

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