

Immunomodulatory properties of liposomes
BASED ON MILK PHOSPHOLIPIDS immunodeficiency
STATE of animals

VA Grishchenko, VA Tomchuk, Doctor of Veterinary Science

Liposomal form of dietary supplements FLP-MD, milk phospholipids, experimental immunodeficiency mice of CBA line, immunological and hematological parameters.

The aim - to investigate the effect of liposomal form of BAS FLP-MD on parameters that characterize the immune and hematopoietic systems in intact animals at modeling and artificial immune.

Materials and methods. The study was conducted at Laboratory CBA mice obtained from healthy individuals. Use only animals who have reached puberty at the start of the experiments. Experiments were involved 120 healthy individuals (females) who had about the same size and weight (18-20 g), never-before-lysed wastes other laboratory studies and manipulation.

Oral administration of liposomal form of dietary supplements FLP-MD animals with experimental immunodeficiency stimulates the regeneration of the thymus and thymic mass index and contributes to the weight of the spleen at the level of intact animals, inhibits apoptosis of splenocytes level, improves the T-component of the immune system (by maintaining the endocrine function of the thymus and more quick Recovery populations of T lymphocytes) enhances natural killer and ensures normalization of hematological parameters.

Conclusions

Thus, the introduction of animals liposomal form of BAS FLP-MD does not change the course of proliferation and apoptosis in lymphoid cells of the immune system intact animals. The use of liposomal form of BAS FLP-MD mice with experimental immune deficiency inhibits apoptotic processes in the development of lymphoid cells of the spleen of these animals.

According to studies found that immune deficiency, modeled administration of 200 mg / kg CP CBA mice, accompanied by a decrease in mass of the thymus and spleen, the number of lymphoid cells in these organs of the immune system, decrease the endocrine function of the thymus and absolute number of T-lymphocytes in the peripheral blood of animals, and changes in hematological parameters. Oral administration of liposomal form of BAS FLP-MD experimental animals with immunodeficiency stimulates recovery of thymus and thymic mass index and helps to gather, Jenny spleen weight at intact animals throughout the observation period, inhibits apoptosis of splenocytes level, improves the condition T parts of the immune system (due to conservation thymic endocrine function and more rapid recovery of T-lymphocytes), increases natural killer (number HSV) and provides normalization hematologist-chnyh indicators.

