

THE STUDY OF DRUGS FOR PREVENTION OF COLDS

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Introduction. According to the WHO data annually almost 4 million people die from influenza and acute respiratory viral infections in the world; the total number of persons who have had these diseases is up to 100 million per year. Therefore, the problem of prevention of colds, as well as reduction of the overall incidence of influenza is very important for healthcare. The use of preventive vaccination of viral vaccines is not always effective since the influenza viruses are very changeable, and a universal antiviral vaccine has not been currently discovered yet. Along with vaccination for prevention of acute respiratory viral infections drugs with the antiviral activity are often used, they do not allow viruses to penetrate into the body and thus prevent disease. One of the long-known drugs is aminocaproic acid, which is used primarily as a hemostatic agent, but it is also recommended for the treatment and prevention of influenza since it possesses the antiviral activity. To prevent influenza aminocaproic acid is recommended for use internally or for instillation of 5% solution into the nose or as turundae soaked with 5% solution of aminocaproic acid. In the magistral formula of pharmacies the ointment for prevention of influenza is prepared on the emulsion base, it is used for putting into the nose.

Aim. To prepare the aminocaproic acid ointments on various bases and study their organoleptic, physico-chemical and other properties.

Materials and methods. Ointment bases of various types, physico-chemical, organoleptic, biopharmaceutical methods of studying ointments were used.

Results. The aminocaproic acid ointments have been prepared on various bases, organoleptic, physico-chemical and other properties of the ointments obtained have been studied, the project of the processing instruction for preparing the ointment in conditions of pharmacies has been developed.

Conclusions. The possibility and prospects for further studies on development of a drug in the form of the aminocaproic acid ointment for preventing and treating acute respiratory viral diseases have been shown.