

Application of polyoxidonium contributed to positive clinical dynamics (reduction of seriousness of attacks, increase of FVC, FEV₁, FEV₁ to VC, FEV₁/VLC, MEF, PEF) increase of T-lymphocytes quantity, natural killers, receptors to transferrinum, readiness of mononuclear phagocytes for apoptosis, normalization of helper-suppressor balance. Decrease of integrin Mac-1 (CD11b), adhesion molecules (CD54), markers of lymphocytes activation (CD23, CD25, HLA-DR) was marked also. These changes are evidence of reduction of inflammation activity, amplification of antimicrobial protection.

Thus, inclusion of polyoxidonium in complex therapy of asthma and its combination with MS promotes clinical improvement and normalization of cellular immunity parameters.

THE USAGE OF MODERN MULTIMEDIA TECHNOLOGIES IN STUDYING THE DISCIPLINE "HISTORY OF UKRAINE"

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The fast rates of ICT and telecommunication technologies development make enable to use more new forms of education that are different from traditional methods. It's also helps to improve existing education methods.

During the last years universities of many countries have paid the attention to the opportunity of usage computer telecommunication technologies for the organization of distant education. These technologies provide effective feedback, which is used in organization of teaching materials and during the dialogue with the teacher, who supports a training course. Last years such educational system has received the name "distant education" unlike well-known correspondence formation.

In the conditions of distant education student gets an access to the teaching materials that he need to download from the Internet. Therefore one of the priority tasks which are stand before the developers is to provide qualitative and fast access to the teaching materials in a format accessible to each user.

The integration of modern ICT into the process of different educational disciplines teaching and active usage of Internet opportunities, multimedia content and CDs conducts to the creation of powerful didactic features not only for system of high school formation, but also for improvement of professional skill system.

The discipline "History of Ukraine" is traditionally studied with the usage of historical maps. They give a complete perception of the studied material, act as a demonstration of different historical campaigns and events. Certainly it promotes better mastering of knowledge by pupils or students and results increasing the interest of studying.

Before the laboratory of distant education developers of Sumy State University has been put a task to create a distant course of the discipline "History of Ukraine". Having analyzed some problems in the creation process of interactive multimedia historical maps the developers send to an idea that the most effective representation of the graphic information to the user is a usage of wide opportunities of

FLASH-technologies and vector graphics. Such method provides a little file-size and conveniences of its usage, brings a focus to evident aspect during the education.

It has allowed to develop a complex of interactive historical maps that have essential differences in comparison with traditional static maps. For example the displaying of some historical campaigns on traditional maps is represented in the form of static arrows, but on interactive multimedia maps it was possible to realize animation of these events.

Interactive multimedia maps can be used in distant education. Their format and the size allow to upload them quickly from the Internet. The another way of such maps' usage is inclusion to the demonstration of these cards during lectures in condition of presence a multimedia projector. Every pupil or student also can download these maps and use themselves for the preparation and fastening of knowledge on the discipline "History of Ukraine".