INFORMATION AND COMMUNICATION TECHNOLOGIES TO IMPROVE POSTGRADUATE MEDICAL EDUCATION

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The current stage of the development of health care in the Republic of Belarus is characterized by the introduction and improvement of information and communication technologies (ICT), providing a single information space

The rapid development of the base of technical equipment of health care organizations with modern medical and diagnostic equipment, expanding the range of their medical support requires a significant increase in the effectiveness of the information support system for doctors.

The system of information and methodological support for all stages and parts of work using innovative educational technologies, including case-technologies ("case-study" situational training techniques), problem-based learning technologies (lecture-discussion, lecture-consultation, etc.), simulation training technologies, etc. is created in Belarusian Medical Academy of Postgraduate Education. The modular distance learning methods are widely used. Website of the Academy contains more than 600 training modules in various medical specialties.

Telemedicine technologies, successfully implemented in the Academy, have shown economic feasibility and clearly demonstrated their viability. Webinars that are conducted by cardiologists, neurologists, dentists, oncologists, pediatricians, therapeutists, surgeons and other specialists are very popular in all regions of the republic. Due to the new forms of organization of the educational process, the Academy has organized on-line broadcasting of lectures by leading practitioners from various sectors of the national economy, government bodies and health organizations. This allows to ensure the practice-oriented educational process and to improve the efficiency of training managers at all levels of government in the health care system.

Based on the most advanced communication technologies, cooperation with leading Russian and foreign partners in the field of joint educational activities at the postgraduate level is successfully developed. Doctors from Russia, Lithuania, Estonia, Ukraine, Poland, Georgia, Kazakhstan, Uzbekistan and many other countries join online broadcasts of conferences from BelMAPO.

The Academy provided an opportunity for doctors at the local level to improve their qualifications without interrupting their practice, using teleconsultation forms with analysis of specific clinical cases, online seminars, lecture courses, master classes with the participation of the academic staff of the Academy.

The current level of development of educational technologies offers a qualitatively new type of practical training and an objective assessment of the knowledge and skills level in the training of medical personnel – simulation training – realistic modeling of pathological conditions scenarios, medical manipulations, surgical interventions and (or) other clinical situations.

The advantages of simulation training are as follows:

– when mastering practical skills and complex skills, risks to the life and health of the patient are completely excluded;

– trainees have the opportunity to repeatedly develop certain skills, bring them to automatism, develop the best ways to solve the tasks, taking into account professional experience and knowledge;

– teacher is given the opportunity for virtual modeling of an infinite number of clinical situations;

objective control of the quality of care is provided by the results of the training.

The creation of the Republican Simulation Center at BelMAPO, equipped with modern dummies, mannequins and human-like simulator robots will contribute to the implementation of these tasks.

The latest information and communication technologies occupy an increasingly large place in the life of modern man. Their use increases the motivation and cognitive activity of trainees, expands their horizons and allows the use of personality-oriented technology of interactive learning.

They provide high quality presentation of the material and use different communication channels (text, sound, graphic, touch, etc.), allow to individualize the learning process according to the pace and depth of the course. Such a differentiated approach gives a positive result, as creates conditions for the success of each trainee.