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PEDAGOGICAL SCIENCES

DIDACTICS AS A FACTOR OF INNOVATION IN THE EDUCATIONAL PROCESS AND IN PREPARATION FOR KROK 1 – GENERAL MEDICAL TRAINING

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Introduction. The modern system of higher medical education in Ukraine is characterized by rapid changes dictated by modern requirements, in particular its integration into the European educational space. The educational course Pharmacology is among the priority components in the system of higher medical education and plays a role an important link that combines theoretical and clinical discipline, knowledge of which ensures proper scientific and theoretical training of future physicians and allows them successfully use the opportunities of pharmacotherapy in their clinical practice.

Aim – to optimize the study of the course of Pharmacology and the effectiveness of organization of the educational process.

Results and discussion. As a dynamic discipline, Pharmacology is characterized constant updating and change of information on medications, which creates some difficulties in studying it by students. Thus, teaching the course needs

scientific and innovative approaches, related to computerization and modern technologies, interactive forms of learning, the introduction of virtual pharmacological programs, etc.

The departments of ZSMU are constantly analyzing the results of the license exam, test items and improving the work to prepare students for the successful completion of KROK 1 – General medical training (GMT). Up to 1/3 of the lesson time is devoted to test control with the use of KROK 1 test items in practical classes. A positive assessment (*satisfactory*) of the test control is given on the condition the student has 80% or more correct answers. Databases of test tasks are constantly supplemented with new test items from the booklets KROK 1 of the previous academic year. Test items in the discipline are divided into blocks on separate topics.

The portal of the department contains all the necessary methodological materials for students: test databases for recent years (*in Ukrainian, Russian and English versions*), guidelines, textbooks for independent work of students, electronic tutorials on independent work, lectures, which are compiled in accordance to the approved Work programs in disciplines.

Before the examination or test control students can take a trial test in a learning mode in which incorrect answers to items are immediately shown. Teachers also provide counselling for students. During the lectures, lecturers of the departments focus students' attention on the issues on which the test items of KROK 1 are often based. At most departments, the last lecture on the course is conducted by lectures in the form of a lecture-consultation to help students to prepare for the licensed integrated examination *Krok-1. General medical training*. Preparation is carried out in the form of separate section control.

It is important to include in each module not only consideration of the subject content, but also methods of its teaching to different categories of students. The teacher conducting this section control is advisable to present the forms, methods and means of teaching this content, taking into account the level of preparation of students (*which is manifested in testing*).

Depending on the content, there is a need for new forms of work with students,

which will provide an opportunity for knowledge exchange. It is advisable to use active and interactive teaching methods as well as author's seminars in preparation for Krok-1. Author's project-analytical seminar is one of the modern forms of education. It involves collective work aimed at analyzing existing problems, developing new ideas and projects. At the author's seminar four professional positions are realized:

- *A Student participant* – is a bearer of practical knowledge and skills in a wide subject area;

- *A Student expert* – is a carrier of theoretical and practical knowledge in a narrow subject area;

- *A Student coordinator* organizing communication in the course of group work;

- *a Professor (Associate Professor)* – is the instructor of the seminar organizing communication during the meeting. The main task of the seminar is to put forward new ideas and bring them to the stage of projects.

In the future, the authors of projects can independently find and realize their ideas. The technology of conducting project seminars is a way to organize collective creative activities aimed at solving the problems of its participants in the author's production. This distinguishes this technology from all types of training procedures. During the project seminar, training is a by-product of independent creative work (*in our project it is a search for methodological ways to master the necessary content*). Within such a framework there is a development of project scientific culture, improvement of methods of situation analysis. Professor, the leader of the seminar, is, above all, the organizer of communication between participants. Such seminars were held at the Department of Pharmacology and Medical Formulation with the Course of Normal Physiology. Analytical seminars on metabolotropic drugs, and neurometabolic cerebroprotectors under the guidance of associate professors of the department were held. The curator of the seminars was Professor I. F. Belenichev.

During the practical training of 2nd and 3rd year students of Medical faculties, lectures of the departments provide consultations for students, and give lectures in preparation for Krok-1. Consultation schedules are posted on the portals of the

departments and are on the Teams calendar. The online course in preparation for Krok-1 and online courses in Pharmacology and Side effects of drugs are constantly updated.

It is necessary to use the appropriate educational literature for the proper acquisition of the theoretical material. For this purpose we offer modern textbooks and manuals in pharmacology, published in Ukrainian and English languages, including authors or co-authors which are teachers of our department.

Particular attention is paid to the control of independent work of students. New forms of teaching and training of students (*author's seminars, individual and team projects*) have been launched at the departments in the conditions of mixed form of education. The student research work (SRW) is one of the possible ways to intensify the Independent Work of Students (IWS). Active student participation in the experiment research at the department, master classes, and participation in scientific conferences deepen students' knowledge in pharmacology and encourage them.

At the meeting of the Cyclic Methodological Commission (CMC) of the departments of medical and biological disciplines, the main measures to improve the preparation for Krok-1 were outlined:

- Consultations by professors and leading associate professors of the departments according to the schedule;
- Checking the levels of student preparation at the departments, taking into account the compliance of preparation for Krok-1 (*educational literature: curricula, database of test tasks, educational material including lectures presentations and practicums; control of input and output levels of students' knowledge; criteria for assessing students' knowledge*);
- Conducting a seminar of heads of departments on improving interdisciplinary relations in connection with the preparation for Krok-1 in students of full and reduced terms of study;
- Analysis of examination items (*tickets, test items*), and evaluation criteria for disciplines;
- Mutual visits by heads of departments and the head of the CMC exams and

credit classes;

- Establishing the most complex issues, emphasizing the sequence of teaching them in different disciplines;

- Preparation of lecture material taking into account the most complex issues encountered in the test items of Krok-1.

The rational one acquires special urgency organization of IWS in the study of pharmacology in connection with a decrease in the number of auditory practical classes and lectures in Pharmacology.

Conclusions. Preparation and holding of author's seminars, lectures, methodical recommendations and instructions as well as involvement of students in team and creative work, interdepartmental and interdisciplinary events, intensifying the use of Microsoft Office 365 capabilities for Teams workgroups to coordinate and monitor the effectiveness of students' independent work, and providing advisory support will optimize the study the course of Pharmacology.