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**Problematic aspects of of natural-scientific cycle disciplines teaching at the medical universities of Ukraine**

This article is devoted to consideration of problems in high education in medical universities of Ukraine. It is discussed mostly situation with teaching of biochemistry in high medical schools. There are some negative tendencies in teaching of those subjects like biochemistry, normal physiology, etc. last five years: 1) the increase of a number of students in training groups (it is about 16 now) instead required in ECTS program (not more than 8 members); 2) the use of additional examinations which are not taken into account by ECTS; 3) the increase of hours of students` independent work in teaching program with decrease of hours of students` scientific work (the government doesn`t give money to make investigations in experimental biochemistry and physiology in state medical universities); 3) the control of quality of educational process is based on testing of students only with the use of tests of first level of complexity.

The authors of article discuss else one problem: how increase the quality of admission of entrants to medical universities, because it is so far from ideal in Ukraine. Teachers of medical universities which are in work with students at first year recognize this fact. The independent state testing of Chemistry made after graduation of secondary school in Ukraine doesn`t take into account levels of knowledge which are in need for student of medical department to pass successfully later those subjects as biochemistry, pharmacology, etc. The authors propose to compare situation in Ukraine with that found in West Europe countries, Canada, USA.

The authors of article proposed concrete ways to improve the independent work forms and tools with aim to increase quality of educational process in medicine. It is discussed the meaning of competency term in association with creation of all conditions to promote qualitative independent work of students in those discipline like biological chemistry. The forms of independent work of students in biological chemistry may be different (main of them are discussed in this article), but it is preferably to choose those one as extensive methods based on informational technologies. These forms of independent work of students require the change of teacher`s behavior in educational process. Teacher must develop effective tools for the control of independent work of students and for estimation of its results. The authors of article share experience in the development of on-line learning course of biochemistry for students of medical department with the use edX platform technology, and they announce first results in this type of work.

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