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Components of Case Based Education in Studying Internal Medicine Based on Modern Educational Web-Technologies

Introduction. Currently the most important direction in the sphere of higher medical education is the necessity strengthen the practical aspect of training future physicians. The classical system of higher clinical medical education is not able solve the problem of practical training of physicians. The main obstacles to this is the impossibility of a practical illustration of the whole variety of clinical situations.

Modern medical education should promote the formation of an active learning process; develop abilities for self-learning, memorization, systematization of the material passed, and the ability to use this knowledge in practice.

Purpose – to improve practical training of students and physicians according to development components of case based education based on modern educational web-technologies.

Results. Components of case based education in studying internal medicine in the undergraduate and postgraduate training of physicians in own experience modern educational web-technologies implementation to study process, can include:

1. Presentations of clinical cases - detailed presentation of a clinical case with visualization results of the examination, review of clinical guidelines important for presented in case pathology, discussing the peculiarities of the clinical case, treatment outcomes, discussion, outstanding issues, prospects of research, etc.;
2. Audio/video lectures of clinical cases with presentations;
3. Practical training simulators - a combination of theoretical material on a specific topic with a large number of clinical situational tasks for it's mastering;
4. The simulators of clinical cases - a combination of a specific clinical case with logically related test tasks on the topic of the concrete clinical situation;

5. Medical educational web-quests are a combination of several topics in the medical discipline due one problem task with the elements of the detective-style information game, with the construction of a branching scenario and a combination of theoretical material on several topics, with the improvement of practical skills and test simulators.

Conclusions. The introduction of case based education in studying internal medicine using the electronic database of clinical cases into the educational process by clinical departments of higher medical institution can significantly improve the quality of undergraduate and postgraduate education. It helps to improve the organization of active cognitive activity, logical thinking, analysis, generalization, systematization and information evaluation, forms new competencies, realization of creative potential (development of research and creative abilities), and develops the ability to take advantage of accumulated theoretical data due particular problematic task (for example, a clinical case), which is the basis of everyday activities of the physician.