

Association for Promotion of Education and Science Globalization SPACETIME

Institute of Social and Economic Initiatives

Science and Education Center «Science Study Service»



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**of the II International Education Forum**

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Proceedings of the II International Education Forum «Best Educational Practices: Ukraine, Europe, World» include the reports of the forum participants by sections: higher education in the era of globalization: best practices, innovations, efficiency, adaptability to new conditions during pandemics and quarantine; general secondary education and personality formation in the 21st century: tasks, methods, technologies and new approaches, organization and improvement of the quality of distance secondary education; professional education: integration of theory and practice; preschool education: pedagogical skills, effective pedagogical methods and techniques.

Top Topic BEP-2021: «Development of distance education and digital technologies in education»

The Proceedings are intended for scientists, teachers, graduate students, entrepreneurs and students.

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## **TOOLS FOR TEACHING PRACTICAL SKILLS IN THE CONTEXT OF DISTANCE EDUCATION SURGERY**

*Keywords: distance teaching, practical skills, surgery, medical students.*

Covid-19 has been declared as a pandemic disease by the WHO on March 11th, 2020. The disease started in Wuhan province in China in late December 2019. Since that time, the global incidence of COVID-19 disease has increased dramatically.

On the 13th of March, the emergency state was announced in Ukraine followed by the curfew on 21 March. Similar to other sectors, the educational sector has been affected by this pandemic situation. All educational institutions have been closed as well as educational activities have been suspended on the 15th of March. As part of that, the all medical schools in Ukraine in stopped all their teaching and training activities.

This study aims to explore the situation of distance e-learning among medical students during their clinical years and to identify possible challenges, limitations, satisfaction as well as their perspectives for this the approach of learning.

Tools for teaching practical skills in the context of distance education surgery.

Practical skills include several categories of material designed to be assimilated and reproduced by surgical students [3].

1) Techniques for performing physical and additional research methods.

2) Results obtained using additional research methods.

3) Comparison of the clinical picture and data from additional studies.

For the implementation of the tasks, the most acceptable are the tools included in the Moodle educational platform.

From the category of tests that can be used to implement training and control practical skills, the most effective tests were the ones for choosing the missing words, where the missing words in the question text are filled in using the drop-down menus.

Of particular value are tests with single or multiple choices, which allow you to choose one or more correct answers from a given list [1].

The module allows you to create interactive mini-programs, which can include text, sound, video information, as well as any kind of images.

The use of a branching script allows simulating a diagnostic, treatment process, with the registration of the correct choice and erroneous actions of the student.

In addition, these scenarios can include the tests indicated above, which makes this module the main one in solving the problem of teaching practical skills both in surgery and other areas of medicine [2, 4].

On the one hand, the advantages of distance education are the possibility of teaching a large number of students at once, facilitating the educational process, in the case of teaching people with disabilities, adaptability - learning using modern software and hardware makes e-education more effective, also, usually, distance learning is cheaper than regular education.

First of all, by reducing the cost of moving, living in another city, reducing the cost of organizing the courses themselves. Opponents of the use of distance education in medicine believe that mastering practical skills, which are the main component in training future medical workers, is impossible in this way.

However, in our opinion, the use of this form of education in medical schools is not only possible, but necessary.

Naturally, training a doctor in practical skills requires traditional face-to-face contact, but all theoretical training and exercise in decision-making can take place remotely.

These questions were mainly about student's demographics (age, gender, academic years and medical school), prior and current experience with distance learning, available technologies, distance learning benefits, drawbacks, their instructors' influence, challenges, attitudes towards the effectiveness of distance learning in medical education, and their perceptions about the future of distance learning in medical education.

Accordingly, this study included a convenient sample of 1058 students who are currently enrolled in their clinical years.

Objectives and goals were explained at the beginning of the questionnaire to all participating students, and their enrollment was after they consent to participate in the study.

There are 2 modes of E-learning: distance learning and computer-assisted interaction. Moore et al. defined distance E-learning as providing access to learning for those who are geographically remote from the instructor, while is an interactive technique whereby instructional material is presented by and a computer, and students' progress is monitored and evaluated during this process.

Distance E-learning has been proved as an efficient modality of learning in different educational and governmental studies. Data from the Institute of Educational Studies showed that learners revealed a more active attitude in learning when various methods such as electronic books and on-line articles were implemented in the teaching process.

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## **PROCEDURE FOR CONDUCTING A PRACTICAL LESSON IN SURGERY WITH DISTANCE TEACHING**

**Keywords:** *distance teaching, procedure, surgery, practical lesson, medical students.*

Preparation of doctors of the general practice is the principal task of the medical institution of higher education, and therefore the proper teaching of surgery in the whole complex of other disciplines will create conditions for quality medical practice doctor in the future, especially for those professionals who plan to work as surgeons in around world of countries [1, 5, 6].