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**"PROBLEMS OF THE DEVELOPMENT OF SCIENCE AND  
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# **PROBLEMS OF THE DEVELOPMENT OF SCIENCE AND THE VIEW OF SOCIETY**

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**TRANSFORMATION OF MEDICAL EDUCATION IN  
UKRAINE IN WAR CONDITIONS: EXPERIENCE AND  
RESULTS OF IMPLEMENTATION OF THE  
ELECTRONIC JOURNAL SYSTEM ON THE EXAMPLE  
OF THE DEPARTMENT OF UROLOGY AND  
NEPHROLOGY OF THE ODESSA NATIONAL MEDICAL  
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Universities around the world are looking for effective ways to improve the quality of education and ensure the maximum development of students[1]. One of the key factors of students' success is the ability to control their own educational activities and track their progress in education [2]. The implementation of an electronic journal (EJ) of applicants' success can be an effective tool for achieving these goals. A very important aspect of the implementation of EH is the openness, transparency of the assessment of the quality of students' knowledge, the level of their competences and preparation for classes. The Odesa National Medical University (ONMedU) has created an automated system for managing the educational process and EJ, which, in general, is used to control and analyze academic performance and attendance at



lectures and classes by all departments, and, in particular, the department of urology and nephrology [3]. In this work, we will share the first experience and investigate the process of implementing EJ at the Department of Urology and Nephrology, as a local unit of ONMedU, and analyze its impact on the quality of education and the development of students of our department. We will also consider the advantages and disadvantages of using an electronic journal, which, in our opinion, are significant, and provide recommendations for possible further development and improvement of EJ.

The electronic journal is a new approach at the present time to the organization of the educational process at the university, to which there is hope that it should bring many advantages both to students and teachers, as well as to the administration [4]. Let's consider the main advantages of implementing an electronic journal. First, EJ allows you to quickly and easily collect, process and store data on the success of applicants. This can greatly facilitate the work of teachers and administrators and allow them to spend less time on administrative processes. Access to e-learning is available from any geographical point on Earth, regardless of distance, which in the era of distance education has tremendous advantages. This is very important in our modern, dynamically developing educational process.

Second, EJ allows applicants and leaders of the learning process to instantly view grades and progress reports in real time. This ensures a more transparent and open assessment process and helps applicants to respond to any issues in a timely manner. The evaluation process, in our opinion, becomes not so much the final verdict of accounting for the knowledge and training of students and trainees at the end of the cycle, course, discipline, but a reference point for them to understand their strengths and weaknesses during education, when there is both an opportunity and a need in their correction.

Thirdly, the virtual journal allows teachers and administrators to save time and money associated with the production and processing of paper documents (in fact, so far electronic information is duplicated on paper media, which creates an additional burden on the teacher and takes time for routine non-creative work). Today, unfortunately, this duplication does not lead to the facilitation of this type of activity, but on the contrary, to a double burden. But, we are sure, this is due to the transition period, and naturally there will be no need in the next one.

In addition, the electronic journal ensures reliability and security of data storage, as it has a system to protect against tampering and accidental deletion. The security of personal data is an extremely urgent problem of our modern era of informatization and digitalization, and even more so of our near future [5].

However, in our opinion, the introduction of the electronic journal system in higher education institutions also pointed to some shortcomings of the process of implementing EJ. First of all, these are problems with the stability of the system, which can lead to malfunctions in the electronic journal. This can create problems with access to student data and cause delays in its processing. In addition, the collection and storage of information in electronic format can lead to a violation of the privacy of personal data of the acquirers, which can lead to unpleasant consequences. Unfortunately, this problem really became relevant for us in connection with the introduction of martial

law and the tragedy that befell our country, our cities, and every Ukrainian. Of course, now, it is connected with the collapse of the energy system of Ukraine, which occurs periodically, and other reasons.

In addition, there may be problems with access: in cases where students do not have access to the Internet or its quality is low, they may not be able to obtain information from EJ. This can be a problem for those who depend on an internet connection to get their results. On the other hand, the same problems sometimes arise with our teachers, for the above reason.

Moreover, we pay attention to the possible negative impact on interpersonal relationships: the use of an electronic record of success can lead to a decrease in interaction between students and teachers, lack of emotional contact, assessment of individual characteristics of each student, etc. This can lead to a decrease in the quality of education and the educational process. All these disadvantages can be eliminated or reduced by careful planning and implementation of appropriate measures.

There are several possible solutions to the problem of duplicating electronic information on paper media. Abandon paper media and switch completely to an electronic journal. This will reduce the cost of paper and printing, as well as reduce the burden on the teacher, who will not spend time on printing and distributing paper documents. In addition, it will help save time on routine work and allow teachers to concentrate on more creative tasks.

Introduction of a system of automatic generation of printed documents from EJ. This can be done using a special software tool that allows you to automatically generate and print documents based on data from the EJ. This will reduce the teacher's workload and save time for routine work.

Reducing the number of paper documents by limiting their distribution only in cases where they are really necessary, for example, for signature. In other cases, teachers can send all the necessary information electronically.

Therefore, the introduction of an electronic journal at ONMedU and its active use at the Department of Urology and Nephrology has become a very effective tool for improving the learning process, evaluating applicants, underlines the importance of the introduction and use of digital technologies in the modern educational process of Ukraine.

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