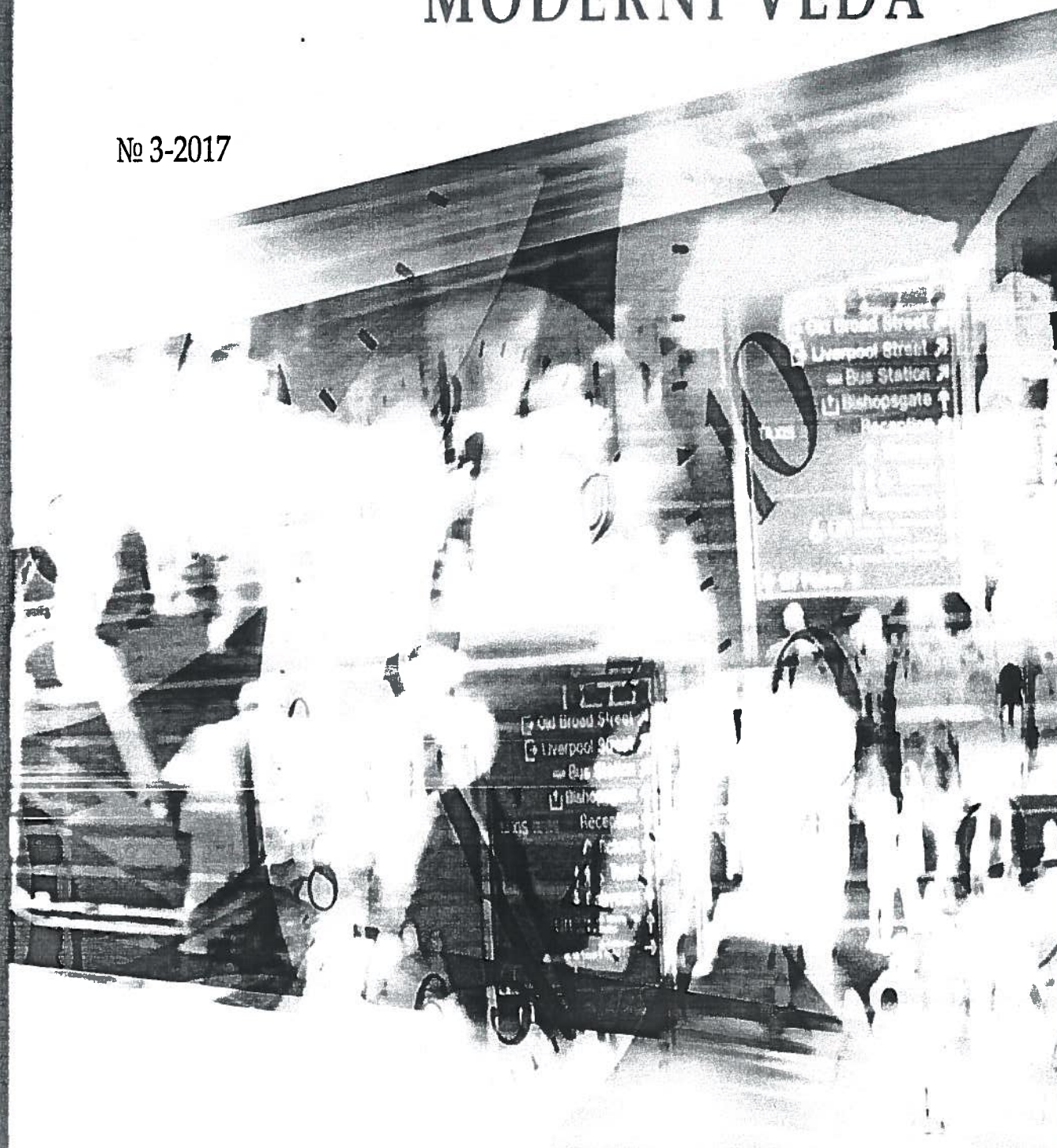


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## **PEDAGOGY AND PSYCHOLOGY**

### **IMPLEMENTATION OF RELEVANT PHARMACEUTICAL PRACTICES IN THE MASTER TRAINING IN UNIVERSITY EDUCATION OF THE EUROPEAN UNION AND UKRAINE TO IMPROVE PROFESSIONAL ADAPTATION OF FUTURE PROTECTORS**

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*Annotation. In the article the theoretical analysis of scientific sources and best practices of introduction of proper pharmaceutical practices in university education of the European Union countries in the master's training of students in higher educational establishments of Ukraine is presented. The organization of phased introduction of proper pharmaceutical practices in master's training in university education of Ukraine on the basis of best practices of the European Union countries for improving the professional adaptation of future pharmacists has been substantiated and researched. It was established that the introduction of proper pharmaceutical practices in master's training in university education of the European Union and Ukraine contributes to the formation of readiness for the implementation of professional competencies of the researcher of the pharmaceutical industry and the improvement of the professional adaptation of future pharmacists. Innovative in content, modified program of the discipline «Good practices in pharmacy» is developed. The theoretical part of the program covers the whole complex of regulatory and normative documents on the creation of pharmaceutical products, the safety of their use and therapeutic efficacy, the practical part includes experimental data of evidence-based medicine and evidence-based pharmacy, which facilitate the formation of masters of readiness to implement the competencies of the researcher of the industry.*

*Keywords: good practice, pharmaceutical industry, master's training, university education, advanced experience, organization of vocational training, evidence-based medicine, evidence-based pharmacy, professional adaptation.*

**Introduction.** Modernization of the content of professional training of future pharmacists in the system of higher education of Ukraine on the basis of the introduction of advanced experience in the training of specialists in the pharmaceutical industry in universities of the European Union causes the updating of curricula, curricula of the disciplines of the normative part of curricula and the introduction of new academic disciplines. The introduction of the discipline «Good practices in pharmacy» at the master's degree stage provides in-depth study of the regulatory regulatory documents of

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the pharmaceutical industry in accordance with the world standards of quality assurance of medicinal products, their safety and therapeutic efficacy. At the same time, the content of this discipline should meet the requirements for the quality of medical supply and marketing of medicinal products in regulated markets of the world.

**Discussion.** Higher vocational education of future medical specialists in the present period should set the goals aimed at the development of intellectual and moral personality in order to preserve human life and improve the quality of medical care for patients. The main way of implementing such an aspect of vocational education should be the use of pedagogical technologies of problem, reflexive, differentiated, dialogue education and education, technology of collective cultural activities, etc. [5, p.36].

Pharmacy, which is constantly evolving as an independent branch of health care, requires the presence of high-quality personnel, is achieved at the postgraduate and postgraduate level through continuous education. Continuing education involves continuous professional training, the main purpose of which is the training and retraining of specialists, professional development, and professional development. The system of continuous education should be as close as possible to the needs of specialists in practical pharmacy [4, p.52].

A total of pharmacoeconomic training of future pharmacists in higher education is also important is to use an integrated approach based on a comprehensive introduction to the educational process innovation pharmaceutical industry, organization of pharmaceutical business based on the introduction of appropriate pharmaceutical practices according to international standards of quality and safety of medicines, which undoubtedly provides economic effectiveness of pharmaceutical manufacturing, wholesale, retail sale and for medical use improve the quality of medical maintenance of the population [2, p.17].

Good pharmacy practice (NAP) determines the role of a pharmacist in the health system, his place in strengthening the health of the population and preventing diseases. NAP provides a functional-role approach to the activities of a pharmacist. In Ukraine, this qualification includes the name «pharmacist and pharmacist». There are four main areas of pharmaceutical activity: the first - the manufacture, receipt, storage, safety, distribution, use, release, utilization of drugs; The second is ensuring effective pharmacotherapy; The third and fourth - support and improvement of professional activity and promote the improvement of the quality of medical care of the population [3, p. 71].

In Ukraine, in the pharmaceutical enterprises and the industrial production of medicines, the practical implementation of the integrated quality management system, which involves the simultaneous application of the universal standard of quality management ISO 9001, industry rules of GMP and other standards from individual (ecological, hygienic, socio-ethical, etc.), becomes actuality. Aspects of enterprise management, affecting the quality of products [6-8].

Addressing scientific study and development of an integrated model of quality assurance of medicines on the stages of wholesale and retail sales and medical use based on complex application related universal standards of quality management system and the risk of quality management (ISO 9000, 10000, 31000, etc.). Industry rules and

guidelines to ensure the quality of medicines (GXP, ICH), as well as standards of other management systems (ISO 14000, OHSAS series 18000, SA 8000, etc.). In constructing the model uses an integrated approach to ensure the quality of drugs on the stages of wholesale and retail sales and medical use [9, p.46].

The aim is to substantiate the phased implementation of appropriate pharmaceutical practices for master's training in university education in Ukraine based on the best practices of the European Union countries in order to improve the professional adaptation of future pharmacists.

According to the goal, the task is defined:

1. To carry out a theoretical analysis of scientific sources and best practices in the implementation of appropriate pharmaceutical practices in the master's degree in university education in the European Union.
2. To substantiate and investigate the phased introduction of proper pharmaceutical practices in master's training in university education of Ukraine on the basis of best practices of the European Union countries in order to improve the professional adaptation of future pharmacists.

**Presentation of the main research material.** At the stage of professional training of future pharmacists of educational qualification level (OCR) «Bachelor», we have been planning to introduce the updated content of the regulatory documents of good practices in pharmacy into the training program «Medicine of Medicines», «Organization and Economics of Pharmacy,» Pharmaceutical Management and Marketing, and Namely: GLP; GAP; GMP, GGP.

At the stage of master's preparation for the formation of professional competence researcher industry is necessary extended acquaintance with a set of good practice in pharmacy - GXP, and detailed study of the regulatory and legal foundations of pharmaceutical development - guidelines, regulatory and legal documents of the EU and international standards (EMA, WHO, FDA) in accordance with good practice in pharmacy: GLP; GAP; GMP, GGP.

Analysis of existing content modules curriculum allows them to summarize trends in modernization and design new thematic modules that reveal modern design biopharmaceutical research bioavailability, bioequivalence, pharmacokinetics, and the results of laboratory research stage pharmaceutical development projective therapeutic efficacy of drugs.

At the stage of studying the modern design of preclinical and clinical trials of new pharmaceutical preparations with known active pharmaceutical ingredients in equivalent doses, as well as original, innovative drugs and dosage forms, the role of scientific and pedagogical support of teachers of medical and biological disciplines in the process of master's training is enhanced in order to ensure purposeful formation of competencies The researcher of the industry, the application of the experience of systematic studies of evidence-based medicine, the design of a plan for the future Days of work in accordance with GLP guidelines for the development of human medicines and for veterinary practice.

The use of informational content to fill the theoretical part of the content modules of



the curriculum of the Master's degree program «Good practices in pharmacy» promotes the formation of skills in management of the quality management of pharmaceutical production and medical provision of the population. The basis of the application of the methodology of evidence-based medicine in the process of experimental research on pharmaceutical development is the scientific search for evidence information on drugs, its analytical review, selection and systematization, the creation of its own information resources and content, and their transformation into the realization of the competencies of the researcher [2].

The results of such research are discussed by scientists and practitioners in the National Congress «Medical and Biological Informatics and Cybernetics» (Kyiv, 2010, 2014) and Scientific Conference «Medical and Biological Informatics and Cybernetics: Milestones of development» (Kyiv, 2011). Given the different views on the content and objectives of demonstrative pharmacy, continuing at the global level scientific debate about the integration of evidence-based medicine and evidence-based pharmacy, modern researchers believe that the results of studies of the interaction of drugs by applying methods of evidence-based pharmacy and data analysis correlation studies *in vitro* / *in vivo*, the following can be used in scientometric databases and be valuable for management decisions [1, p.83].

The Bologna Process transforms the student into the main figure of the academic process and evaluates the learning outcomes with its competence, promotes and rapidly increases the level of independent work of the student in the educational process, aimed at using interactive methods and paths in the learning process. The dynamic growth of the modern world, the increase of information, the importance of the individual in society, the pursuit of the period of intellectual change require the development of active student action. This is why interactive methods are very important in the learning process [10].

We have investigated the integration links of the study of the disciplines of master's training and the discipline «Good practices in pharmacy» in the process of professional adaptation of the masters of the pharmaceutical industry.

The contents of the discipline «Good Practice in Pharmacy» is innovative as it covers the whole range of regulatory and regulatory documents for the development of pharmaceutical products, their safety and therapeutic efficacy. For the in-depth study of the theoretical part of the discipline, the information content «Good practices in pharmacy and their regulatory and regulatory support» was created, which covers the complex of regulatory and normative documents in place on the European and world markets for the development of pharmaceutical products, their safety and therapeutic effectiveness. The created information content is systematically updated in accordance with the new regulatory guidelines introduced in the field of good practices in pharmacy and the amendments and additions to existing documents, based on the harmonization of the legislative framework of the European Union and Ukraine.

The practical part includes experimental data of evidence-based medicine and evidence-based pharmacy, which facilitate the formation of the readiness of masters for the implementation of the competencies of the researcher in the industry.

In the course of an experimental study, we conducted a questionnaire for students at the stage of master's training and practicing masters of the pharmaceutical industry. A comparative analysis of the results of the questionnaire on the need for study and content of the discipline «Good practices in pharmacy» and the practical application of the acquired knowledge, practical skills, formation of professional readiness for the implementation of professional competencies, the emergence of difficulties in the process of professional activity caused by lack of awareness of the content of regulatory and regulatory Good Practice Papers in Pharmacy.

**Conclusions.** The introduction of proper pharmaceutical practices in master's training in university education in the European Union and Ukraine contributes to the formation of readiness for the implementation of the professional competencies of the researcher in the pharmaceutical industry and the improvement of the professional adaptation of future pharmacists.

The developed modified program of the discipline «Good practices in pharmacy» is innovative in content, since the theoretical part of it covers the whole complex of regulatory and normative documents on the creation of pharmaceutical products, the safety of their use and therapeutic efficacy, the practical part includes experimental data of evidence-based medicine and evidence-based pharmacy, Which facilitate the formation of masters of readiness to implement the competencies of the researcher of the industry.

Prospects for further exploration of the research direction are the development of modified two-level curricula (RBR «Bachelor», RBC «Master») of the continuous process of professional training of future pharmacists in higher educational institutions on the basis of the phased introduction of guidelines for good practices in pharmacy.

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