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TECHNOLOGICAL ASPECTS OF OPTIMIZATION PHARMACEUTICAL DEVELOPMENT INNOVATIVE DRUGS AND FORMATION OF PROFESSIONAL COMPETENCE OF FUTURE MASTER PHARMACEUTICAL INDUSTRY

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Abstract:

The article made a systematic analysis of pharmaceutical development and management Organizing methodological training system masters the pharmaceutical industry in higher educational institutions of Ukraine. The current state and improvement methodology Master training in the pharmaceutical industry. In preparation for pharmacist-Master is also important political economy factors that affect the direction of scientific research, pharmaceutical production, strategy, financial allocation of funds for the development of the pharmaceutical industry and higher pharmaceutical education. From political economy factors directly affects the quality of professional development of pharmaceutical specialists in higher educational institutions of Ukraine.

To optimize training Master's pharmaceutical industry must be entered in the educational process of innovative forms of education, such as professional training and master classes on topics of development and introduction of new pharmaceuticals and medical forms, justification of technology, process receipt, validation, standardization and modernization process equipment and pharmaceutical engineering.

Keywords: pharmaceutical industry, master's pharmaceutical industry, pharmaceutical technology, validation, standardization, modernization process equipment, pharmaceutical engineering.

Introduction Accelerated development of the pharmaceutical industry in terms of European integration of Ukraine determines the new challenges of higher pharmaceutical education. The focus of reformation of higher pharmaceutical education also determine the trends of the pharmaceutical market and the labor market, as modern specialist pharmaceutical industry should be competent and competitive. Therefore, modernization and optimization of pharmaceutical personnel training is one of the integrated, pressing scientific challenges. Improvement of Master training in higher educational institutions of Ukraine is impossible without the study and systematic analysis of best international practices of the pharmaceutical industry and pharmaceutical education. Particularly relevant is the development and introduction of new effective pharmaceuticals and innovative dosage forms. That is why the management of pharmaceutical drug development and industrial implementation of a decisive influence on the formation of professional competence of future masters of the pharmaceutical industry.

In recent years, the pharmaceutical industry of Ukraine is developing dynamically and undergoing improvements. Ukraine has its own pharmaceutical production, distribution network and developed an extensive pharmacy network all forms of ownership. The pharmaceutical industry occupies an important place in the economy of Ukraine as an important segment of the national market, largely determines national security and defense of the country, and features a large and

well-developed science intensive cooperation. At present, a wide range of medicines, high prices and, unfortunately, the lack of production of drugs in accordance with the standards of GMP characterize the domestic pharmaceutical market. A characteristic feature is the high consumption of materials and pharmaceutical production that far exceeds the industry average in Ukraine. As pharmaceutical manufacturing different latitude range and range of raw materials, basic and auxiliary materials and causes relatively high immobilization of funds in the creation of inventory, a study of the current state of the industry and the dynamics of its development is important [9, p.72].

The strategic directions of development of pharmaceutical production both in coming years, and in the long term should be: to optimize its structures based on the implementation of its restructuring, the implementation of an innovative model of economic growth, the rapid development of high-tech industries competitive, improving the quality parameters of production. Based on major areas of science and technology in the pharmaceutical industry, it can be concluded: the development of new technologies requires focusing both on the national and regional levels through the formation of integrated scientific and industrial complexes [2; 9; 10].

Strengths in the Master training pharmacists determine today: introduction of the principles of lifelong learning, growth in the number of doctors and candidates of pharmaceutical sciences, for known scientific schools, the publication of new textbooks and teaching

materials, regular conferences of regional, national and international importance, and so on. To weaknesses, include insufficient education and training graduates, insufficient staffing and logistical support of the educational process, training of pharmaceutical professionals in non-core educational institutions, non-compliance programs relevant disciplines to modern requirements and level of development of pharmaceutical science and practice [7].

Due to the transformation of the pharmaceutical market, tough competitive conditions, transformation management culture exacerbated, the problem is not always appropriate competence pharmaceutical professionals, as this issue necessitates fundamental changes in the system of training, due to the formation of professional competence. According to the principles of good practice in pharmaceutical education and effective functioning of the global higher education in the third millennium on modernization in the modern pharmaceutical education should be laid high responsibility, professional competence, professional ethics, integrity, personality and outlook, pharmaceutical culture and consciousness. [7]

Methods. System analysis and management of pharmaceutical development Organizing methodological training system masters the pharmaceutical industry.

Result and discussion. Innovation and technological infrastructure and development macro factors education is to develop high-tech industries. Innovative focus of the pharmaceutical industry, biopharmaceutical research and pharmacotechnological required in the training of modern masters of pharmacy integrated application system, competence, activity and personality oriented approaches to master in training, self-training, and professional development [3].

We have studied and analyzed the factors of difficulties in the professional masters of the pharmaceutical industry confirming the need to improve the organization of Master training in higher educational institutions of Ukraine towards European integration.

Factors occurrence of difficulties in their professional activities in a survey and questionnaire practicing masters of the pharmaceutical industry are: lack of professional communication in the Master training with future employers, the lack of material support research in the Master training and improper interaction with laboratories Industrial Pharmacy to create preparedness Applied research activities in the field of foreign communications underdevelopment, lack of awareness of the specific service specific population cohorts in pharmacies, lack of interaction with family doctors and elaborated strategy of professional communicative competence Master the pharmaceutical industry. Isolate factors are dominant by definition 87% of surveyed respondents and respondents.

As a result of systematic analysis of the management of pharmaceutical development and Organizing methodological training system masters the pharmaceutical industry we have developed a program of the cycle of professional training and final workshop

"Management of pharmaceutical development of innovative drugs in the laboratory of pharmaceutical development" in the Master training system of university education.

As a result of systematic analysis of the management of pharmaceutical development and Organizing methodological training system masters the pharmaceutical industry we have developed a program of the cycle of professional training and final workshop "Management of pharmaceutical development of innovative drugs in the laboratory of pharmaceutical development" in the Master training system of university education.

In accordance with our program initiated series of professional trainings on topics in sequential order.

1. Conceptual bases of management of pharmaceutical development of innovative pharmaceuticals and medical forms.

2. Development of innovative technologies and pharmaceutical drug dosage form.

3. Determination of experimental research design.

4. Rationale of quality and selection of analytical methods.

5. Justification stages of the process.

6. Determination algorithm validation tests.

7. Design biopharmaceutical research bioavailability of pharmaceutical drug dosage form.

8. Prioritization of technology and innovation and the process of obtaining pharmaceutical drug dosage form.

9. Methodology formation module 3 registration dossier pharmaceutical preparation.

10. Design preclinical studies.

11. Managing the pharmaceutical development of innovative pharmaceutical drug dosage form.

12. Transfer of technology innovation pharmaceutical drug dosage form in conditions of pharmaceutical production.

The cycle of professional training and final workshop "Management of innovative pharmaceutical development of medicinal products in a laboratory pharmaceutical development" implemented in the process of training students master in "Pharmacy" in the medical and pharmaceutical faculty of Kyiv International University and the National Medical University Bogomolets. During the implementation of model management approved laboratory stage pharmaceutical development of innovative drug, the innovative technology of herbal prepares Floreol and Florederm of practical training for students.

During the implementation of established positive dynamics of formation of quality occupational future masters to facilitate the formation of professional competence, willingness to implement competence researcher in the field of drug technology and industrial pharmacy students found personal motivation for professional development.

Conclusions of the research

Important aspects that contribute to the improvement of Master Training of pharmacists is the integration of pharmaceutical education in the European

space, involving research, the introduction of the necessary disciplines that will improve the quality of the educational process for undergraduates, the formation of future specialists of appropriate skills and professional competence.

In preparation for pharmacist-Master is also important political economy factors that affect the direction of scientific research, pharmaceutical production, strategy, financial allocation of funds for the development of the pharmaceutical industry and higher pharmaceutical education. From political economy factors directly affects the quality of professional development of pharmaceutical specialists in higher educational institutions of Ukraine.

To optimize training Master's pharmaceutical industry must be entered in the educational process of innovative forms of education, such as professional training and master classes on topics of development and introduction of new pharmaceuticals and medical forms, justification of technology, process receipt, validation, standardization and modernization process equipment and pharmaceutical engineering.

Prospects for further development direction of research is the development and introduction of dual education programs using research projects future employers in the preparation of pharmaceutical industry masters in the system of university education.

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