

**МІНІСТЕРСТВО ОХОРОНИ ЗДОРОВ'Я УКРАЇНИ  
ЗАПОРІЗЬКИЙ ДЕРЖАВНИЙ МЕДИКО-ФАРМАЦЕВТИЧНИЙ  
УНІВЕРСИТЕТ**

## **МАТЕРІАЛИ**

**ВСЕУКРАЇНСЬКОЇ НАУКОВО- ПРАКТИЧНОЇ  
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Thus, the chemical composition, hepatoprotective, hypoglycemic and hypolipidemic activity of the American cranberry leaf extract and its amino-acids preparations were studied. The present study revealed the potential of phenolics found in the leaves of *V. macrocarpon* in the prevention of health issues associated with insulin resistance.

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## INTERNATIONAL ISO CERTIFICATION IN PHARMACEUTICAL PRODUCTION

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**Introduction.** In the modern world, where the pharmaceutical industry plays a key role in ensuring the health and well-being of the population, issues of the quality, safety and effectiveness of medicines are particularly acute. In this context, international ISO certification becomes particularly relevant, acting as a guarantor of high standards in pharmaceutical production.

The introduction of international certification in the pharmaceutical industry will ensure quality and safety, compliance with international standards, improved reputation and competitiveness, optimization of production processes and continuous improvement.

**Results and discussion.** ISO standards such as ISO 9001 (quality management systems) and ISO 13485 (specific requirements for medical device manufacturers) help pharmaceutical companies systematize processes, minimize risks and ensure high product quality. Also key are: ISO 14001 (an environmental management system standard that focuses on environmentally responsible production) and ISO 45001 (standard for occupational safety and health management systems, important for ensuring occupational safety in pharmaceutical enterprises).

The pharmaceutical market is highly regulated and ISO certification ensures that products meet international standards, which is critical for exports and global collaboration.

ISO certification serves as proof of the company's commitment to high quality standards, which increases the confidence of customers and partners, and also strengthens its position in the international market. The application of ISO standards helps to increase the efficiency of production processes, reduce costs and improve resource management.

Quality management systems based on ISO are focused on continuous improvement of processes and products, which contributes to the innovative development of the company.

**Conclusion.** International ISO certification in pharmaceutical production is not just a trend or a formal requirement. This is a key element in ensuring high levels of product quality and safety, which in turn contributes to the health and well-being of society. In the context of globalization and ever-increasing requirements for the quality of medical products, ISO certification is an essential tool for the successful and responsible conduct of pharmaceutical business.

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## MODERN ASPECTS OF PHARMACEUTICAL SERVICES RESEARCH IN UKRAINE

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Pharmacies play an important role in expanding access to pharmaceutical and medical care, while providing a variety of advanced services that go beyond traditional drug dispensing. After the update of the Basic Law of Ukraine “On Medicines” dated July 28, 2022 No. 2469-IX, which comes into force today, such a concept as a pharmaceutical service has officially entered the daily practice of pharmaceutical specialists and scientists.

However, questions about the constituent elements of a pharmaceutical service, its price and methods for establishing service components based on patient preference in scientific pharmaceutical circles remain open.

**Aim.** Study and systematization of information about the possible component composition of a pharmaceutical service for its subsequent implementation in a comprehensive assessment of the composition of a pharmaceutical service based on expert assessment and discrete choice methods.

**Materials and methods.** The study used systematization methods, content analysis and analytical method. Resources – PabMed database. The selection of information sources took place using the keywords “Patient Preference” [MeSH] and “Pharmacy Services” [MeSH].

**Results.** As the main data set, 112 results were collected and analyzed. Today, advanced, non-traditional and cognitive pharmaceutical services are distinguished as a component of pharmaceutical services. Examples of cognitive services include health promotion, medication management, medication review and adherence improvement, and private pharmacist consultation.

Individual components of pharmaceutical services that are often used in foreign sources and are included in patient research cards turned out to be: measuring blood pressure, checking cholesterol levels, measuring weight, vaccination in a pharmacy, smoking cessation activities, inhalation treatment compliance, diabetes, asthma and allergy tests.