



MINISTRY OF HEALTH OF UKRAINE
NATIONAL UNIVERSITY OF PHARMACY
DEPARTMENT OF MANAGEMENT, MARKETING AND QUALITY ASSURANCE IN PHARMACY

PRESENTS

ELECTIVE EDUCATIONAL COMPONENT

PHARMACOECONOMICS



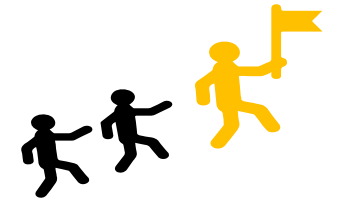
for acquirers higher education, what are studying by specialty
"Pharmacy, industrial pharmacy»



- ✓ If you want to acquire modern and useful knowledge
- ✓ If you want to become a sought-after specialist in the pharmaceutical labor market
- ✓ If you want to get more knowledge about the safety and effectiveness of medicines, about the quality of drug therapy, about the rational spending of money on pharmacotherapy



then



**LEARNING THE CURRENT AND APPLIED EDUCATIONAL COMPONENT OF
"PHARMACOECONOMICS" IS JUST FOR YOU!!!**

The study of the educational component includes two content modules:

- Theoretical foundations pharmacoeconomics and pharmacoepidemiology. Search and analysis information about efficiency, safety medical technologies and expenses on their application. Mathematical modeling in pharmacoeconomics
- Applied pharmacoeconomics. Methods pharmacoeconomic analysis. Application results pharmacoeconomic of research in practical pharmacy and medicine.



Integrative final program learning outcomes, the formation of which is facilitated by the educational component "Pharmacoeconomics"

- ✓ To carry out professional activities using information technologies, "Information databases", systems navigation, Internet resources, software and others information and communication technologies.
- ✓ To use the data of clinical, laboratory and instrumental studies to monitor the effectiveness and safety of the use of medicinal products.
- ✓ To take into account data on socio-economic processes in society for the pharmaceutical provision of the population, to determine the effectiveness and availability of pharmaceutical care in terms of medical insurance and reimbursement of the cost of drugs.



The purpose of the educational component «Pharmacoeconomics»:
training for the pharmaceutical industry of specialists who have a sufficient amount of theoretical knowledge and practical skills pharmacoeconomic analysis of methods of prevention, diagnosis and treatment of various diseases to improve the quality of medical care, rational use of funds for health care, optimization of the use of medicines in the conditions of a market economy.

The topics of the educational component :

- Topic 1.** Evidence-based medicine as a modern methodology in health care. Historical and socio-economic preconditions for the emergence of pharmacoeconomics as an applied science.
- Topic 2.** Pharmacoeconomics as a science, its goals and objectives. Main pharmacoeconomic categories.
- Topic 3.** Pharmacoepidemiology: essence and objectives. Quantitative pharmacoepidemiological studies of drug usage study.
- Topic 4.** Safety of medicines as a pharmacoeconomic category. Types of undesirable side action of a drug. Pharmacovigilance system.
- Topic 5.** Pharmacoinformatics as a science. Systematized sources of information.
- Topic 6.** Costs as a pharmacoeconomic category. Ways to optimize healthcare costs.
- Topic 7.** Mathematical modeling in pharmacoeconomics. The method of mathematical modeling is "decision analysis".
- Topic 8.** Markov mathematical model.
- Topic 9.** Pharmacoeconomic analysis: general provisions. Pharmacoeconomic analysis methods. Cost Of Illness Analysis. Cost Minimization Analysis.
- Topic 10.** Cost Effectiveness Analysis. The effectiveness of drugs as a pharmacoeconomic category.
- Topic 11.** Indicators of the usefulness of medical technologies: "quality of life", QALY and DALY. Tools for assessing the "quality of life". Cost Utility Analysis.
- Topic 12.** Cost-Benefit Analysis. Sensitivity Analysis of the results of pharmacoeconomic studies
- Topic 13.** Pharmacoeconomic evaluation of symptomatic treatment of pathological conditions using non-prescription medical products.
Pharmacoeconomic evaluation of prescription medical products used for the prevention and treatment of the most common diseases.
- Topic 14.** Quality of medical care. The list of essential pharmaceutical products as a document of state guarantees of the quality of medical care. Standardization in healthcare.
- Topic 15.** Formulary system. Formulary as an element of the formulary system.
- Topic 16.** Application of pharmacoeconomic research in the creation of medicines and in the regulation of the life cycle of medicines.





With us you...

1

Master the methods of pharmacoeconomic analysis

2

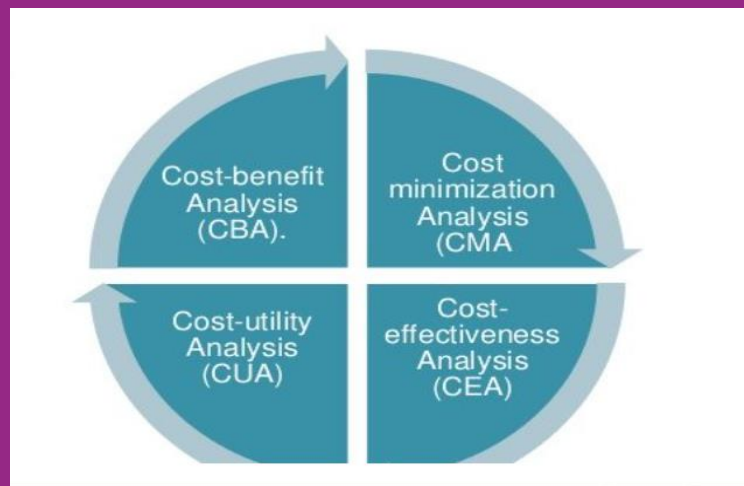
Learn to identify, classify, and calculate costs for specific medical technologies

3

Familiarize yourself with the methods of conducting ABC, VEN and frequency analyses

4

Learn how to conduct the world-renowned drug consumption analysis using the ATS/DDD method



Basic methods of pharmacoeconomic analysis

WE WILL TEACH YOU:

- ✓ methodical approaches that allow analyzing the effectiveness of costs in medicine
- ✓ find the established daily dose of medicines (DDD) on the WHO website for further calculation of their consumption in Ukraine compared to other countries

WE WILL GET TO KNOW YOU WITH:

- world experience of conducting pharmacoeconomic studies and using their results in health care practice.
- the current state and prospects for the development of pharmacoeconomics in Ukraine.

Methodical provision of the educational component "Pharmacoeconomics»

- ✓ Tutorial (study guide)
- ✓ Workbook
- ✓ Lecture presentations
- ✓ Examples of solving problems
- ✓ Methodological recommendations for preparation
for final module

ONLINE RESOURCE



Course resource place onsite by address:

<https://pharmel.kharkiv.edu/moodle/course/view.php?id=3073>

THANK YOU FOR YOUR ATTENTION!



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