

226 PHARMACY, INDUSTRIAL PHARMACY
Educational-professional program at the second (master's) level
"HEALTH TECHNOLOGIES ASSESSMENT"



The program's guarantor is Nemchenko Alla, candidate of economic sciences, doctor of pharmaceutical sciences, professor, the head of the department of organization and economics of pharmacy of the National Pharmaceutical University, Honored Worker of Science and Technology of Ukraine

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Branch of Knowledge	22 Health
Specialty	226 Pharmacy, industrial pharmacy
The volume of the program	90 ECTS credits
Duration of program	1 year 6 months.
Form of study	full-time / part-time (distance)

The educational-professional program aims at training Health Technology Assessments (HTA) experts who possess fundamental knowledge and practical skills in modeling and evaluating health technology, able to apply the knowledge gained during research to rationale for the use of health technologies and their inclusion in treatment standards and reimbursement programs (in terms of their quality, safety, clinical and cost-effectiveness, affordability and impact on the budget).

Features of the educational and professional program

The activity of an expert on the health technologies assessment includes organizational, managerial, advisory, control-analytical, design and research functions, in particular:

- implementation of organizational, research and innovation activities in the field of health technology assessment, subject to the requirements of regulatory documents, principles of quality management and professional ethics;
- development of a model for health technology assessment, selection of adequate methods in accordance with the goals and objectives of the assessment;
- project planning of work, risk assessment and analysis of results;
- assessing the safety, clinical and economic efficiency of innovative health technologies;
- rationale for the use of health technologies and their inclusion in standards of treatment and compensation programs (budgetary impact);
- organizations of public procurement of medicines and medical products in accordance with the current legislation harmonized with European directives;
- registration of working and reporting documentation on the evaluation of health

- technologies (regulations, protocols, reports);
- conducting a systematic analysis of the activities of health care institutions and state provision of pharmaceutical care in general, the main indicators
 - advising and informing healthcare professionals on the evaluation of health technologies and its results in compliance with professional ethics and deontology.

Program components:

№	Name of the discipline
Required course unit	
1.	Health Economics
2.	Legislation in the healthcare system
3.	Medical statistics
4.	Scientific fundamentals of clinical research
5.	System analysis of health care institutions
6.	Scientific fundamentals of HTA. Practical aspects (modeling).
7.	Economic analysis in the HTA system
8.	Clinical analysis in the HTA system
9.	Health financing
10.	Public procurement in healthcare
Optional subjects / courses	
11.	Innovative technologies in clinical pharmacology
12.	Pricing of medical services
13.	Pricing for pharmaceutical products and services
14.	Public policy in health care
15.	Reforming health care system
16.	Social economics in health care
17.	Quality management in HTA system
18.	Projects management
19.	Socio-ethical norms of research in health care
20.	Assessment and risk management in healthcare
21.	Safety of medicines and pharmacovigilance
22.	The current state of a medical care in the world and in Ukraine
23.	The current state of a pharmaceutical providing in the world and in Ukraine
Practical training	
24.	Scientific internship
Certification of graduates	
25.	Preparation of master's degree work and applicants for higher education attestation

Employment and competitive advantage of graduates of the program

Graduates of the educational and professional program "Assessment of medical technologies (health technologies)" can carry out professional activities in medical technology assessment agencies (HTA), expert groups at national, regional, transnational level or at the level of a medical organization, hold positions in state bodies authorities and industry institutions, institutions of higher education, research institutes, laboratories, health care institutions.

The competitive advantages of graduates of the program consist in possessing them with a modern methodology for evaluating health technologies in combination with critical

analysis, modeling, designing, communication and research competencies.

Program learning outcomes

- Professional usage of the legislation and regulatory documents on healthcare and organization activity in health technology assessment.
- Explain the basic principles of the state policy in the field of health, identify priorities of socio-economic development and direction of reform of the sector.
- Describe the current state of the pharmaceutical providing of the population.
- Explain the effect of the basic economic laws in the specific conditions of production and consumption of health (medical) services, to determine the conditions and factors that affect the process of the meeting of needs of the population in medicines and health care.
- Describe the existing models of healthcare and to specify the main sources of funding.
- Build a model of health technology assessment, formulate goals, develop a plan and a program of scientific research.
- Select and apply scientific methods in accordance with the goals and objectives of health technology assessment.
- To analyze the data of health statistics, epidemiological indicators, to identify the main trends, to generalize and interpret the results.
- Organize the safety and clinical effectiveness of health technology assessment using the methods of clinical analysis.
- Carry out the economic calculations of price indices, cost and economic feasibility analysis of the health technology (budget impact).
- Identify key indicators of the pharmaceutical providing of the population, to calculate affordability of medicines.
- Carry out the predictive calculations of reimbursement of medicines by the appropriate programs.
- Explain the principles of public procurement of medicines in accordance with current legislation harmonized with European directives.
- Draw conclusions based on the results of the health technology assessments on the appropriateness of their application, on the including its to the procurement plans and lists of the compensation.
- To interpret the results of research on the health technology assessment to conduct their correct analysis and generalization, represent its in accordance with national and international standards.
- Develop and design the current and accounting documents of the health technology assessment (regulations, protocols, reports)
- Provide consulting and informing of the healthcare professionals with the adhering to the principles of professional ethics and deontology. Provide substantiated proposals for amending regulatory documents (clinical guidelines, treatment standards, insurance programs) based on assessment results.
- Plan of work on health technology assessment and analysis of the results.
- Apply of the basic quality management principles in the professional activity.