

MINISTRY OF HEALTH OF UKRAINE

ODESA NATIONAL MEDICAL UNIVERSITY

Department of *Organization and Economics of Pharmacy*



CONFIRMED by
Vice-rector for scientific and pedagogical work

Eduard BURIACHKIVSKYI
September 1st, 2023

WORKING PROGRAM IN THE DISCIPLINE

«Social Pharmacy»

Level of higher education: second (master's degree)

Field of knowledge: 22 «Health care»

Specialty: 226 "Pharmacy, industrial pharmacy"

Educational and professional program: Pharmacy, industrial pharmacy

2023

The working program is compiled on the basis of the educational and professional program "Pharmacy, industrial pharmacy" for the training of specialists of the second (master's) level of higher education in the specialty 226 "Pharmacy, industrial pharmacy" of the field of knowledge 22 "Health care", approved by the Academic Council of ONMedU (minutes No. 8 dated 29/06/2023).

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The working program is approved at the meeting of the department of Organization and Economics of Pharmacy

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Head of the department



Oksana BIELIAIEVA

Approved by the guarantor of the educational and professional program



Liana UNHURIAN

Approved by the subject-cycle methodological commission for pharmacy's disciplines of ONMedU
Minutes No. 1 dated 29.08 2023

Head of the subject-cycle methodological commission for pharmacy's disciplines of ONMedU




Natalia FIZOR

Revised and approved at the meeting of the department of

Organization and Economics of Pharmacy with post-diploma specialization

Minutes No. 1 dated 04/09 2023.

Head of the department



Oksana BIELIAIEVA

Revised and approved at the meeting of the department of _____

Minutes No. ____ dated ____/____/20____.

Head of the department _____

1. Description of the discipline

Name of indicators	Field of knowledge, specialty, specialization, level of higher education	Characteristics of the discipline
Total number:	Field of knowledge 22 «Health care»	<i>Full-time (day) education</i>
Credits of ECTS: 3	Specialty	<i>Compulsory discipline</i>
Hours: 90	226 "Pharmacy, industrial pharmacy"	<i>Year of training: 5</i>
Content modules: 1	Level of higher education second (master's degree)	<i>Semester: IX</i>
		<i>Lectures (10 hours)</i>
		<i>Seminars (0 hours)</i>
		<i>Practical classes (30 hours)</i>
		<i>Laboratories (0 hours)</i>
		<i>Independent work (50 hours)</i>
		<i>including individual tasks (0 hours)</i>
		<i>Form of final control – Graded Test</i>

2. The Purpose and Objectives of the Discipline, Competencies, and Program Learning Outcomes.

The purpose of the discipline is the social aspects of pharmaceutical activity, in particular the mechanisms of improving the availability of pharmaceutical care to the population, the formation of social responsibility of pharmaceutical professionals.

The tasks of the discipline are the following:

- promote professional knowledge and skills according to the educational qualification characteristics;
- provide a theoretical basis for further study of other pharmaceutical and economic subjects of the curriculum;
- a framework that defines the overall professional competence and erudition pharmacists.

The process of studying the discipline is aimed at forming elements of following competencies:

- **General (GC):**
- GC 2. Knowledge and understanding of the subject area and understanding of professional activity.
- GC 9. Ability to use information and communication technologies.
- GC 10. The ability to act socially responsibly and consciously.
- GC 11. Ability to apply knowledge in practical situations.

Special (SC):

SC 03. Ability to solve pharmacy problems in new or unfamiliar environments in the presence of incomplete or limited information, taking into account aspects of social and ethical responsibility.

- SC 14. The ability to analyze and forecast the main economic indicators of the activity of pharmacies, to calculate the main taxes and fees, to form prices for medicinal products and other products of the pharmacy assortment in accordance with the current legislation of Ukraine.
- SC 15. The ability to conduct an analysis of socio-economic processes in pharmacy, forms, methods and functions of the system of pharmaceutical provision of the population and its

- components in global practice, indicators of the need, effectiveness and availability of pharmaceutical care in terms of medical insurance and reimbursement of the cost of medicines.
- SC 25. The ability to demonstrate and apply in practical activities communicative communication skills, fundamental principles of pharmaceutical ethics and deontology, based on moral obligations and values, ethical standards of professional behavior and responsibility in accordance with the Code of Ethics of Pharmaceutical Workers of Ukraine and WHO guidelines.
 - **Program learning outcomes (PLO) are:**
 - PLO 03. To have specialized knowledge and skills/skills for solving professional problems and tasks, including for the purpose of further development of knowledge and procedures in the field of pharmacy.
 - PLO 17. Calculate the main economic indicators of pharmacy establishments, as well as taxes and fees. Form all types of prices (wholesale, purchase and retail) for medicinal products and other products of the pharmacy assortment.
 - PLO 18. To use the data of the analysis of socio-economic processes in society for the pharmaceutical supply of the population, to determine the effectiveness and availability of pharmaceutical assistance in terms of medical insurance and reimbursement of the cost of medicines.
 - PLO 24. To carry out professional activities in social interaction based on humanistic and ethical principles; to identify future professional activity as socially significant for human health.
 - PLO 26. Argue information for decision-making, bear responsibility for them in standard and non-standard professional situations; adhere to the principles of deontology and ethics in professional activity.

As a result of studying the academic discipline, the student of higher education must:

Know:

- organizational structure of the pharmaceutical supply system in Ukraine, its goals, objectives and functions organizational and methodological principles for determining the availability of pharmaceutical care to the population, its types and factors of influence
- medical and social indicators of society development;
- indicators of the need for pharmaceutical care for the elderly, patients with severe and orphan diseases;
- legal and ethical norms of interaction of the subjects of the pharmaceutical supply system;
- basics of social policy of the state, its mechanisms, methods, efficiency indicators;
- social responsibility of organizations;
- ethical and legal norms of pharmaceutical activity, behavior and responsibility
- ways to increase the social attractiveness of the pharmacy in modern conditions
- regulatory framework of the state strategy in the fight against socially dangerous infectious (tuberculosis, HIV) and parasitic diseases;
- principles of compiling pharmaceutical information and creating information products for the needs of the pharmacy, pharmacy visitors
- legal requirements for information and advertising of drugs and related pharmacy products;
- directions of computerization of the pharmaceutical enterprise;
- the procedure for providing informational assistance to patients;
- features of free and preferential dispensing of medicines to certain groups of the population and categories of patients;
- the main dangerous side effects of drugs
- classification of medicines
- main groups of biologically active substances of medicines and medicinal plant raw materials; connection "chemical structure - pharmacological action"; mechanism of action, pharmacological effects, indications for the use of drugs; characteristic features of certain pharmacological and pharmacotherapeutic groups
- the concept of drug safety;

- principles of operation of the system of registration of these drugs
- the procedure for providing medicines and medical devices of medical and preventive institutions of Ukraine of various forms of ownership;
- features of setting retail, reference prices for medicines;
- state social guarantees to ensure the professional rights, benefits and income of pharmaceutical workers;
- laws of Ukraine on wage taxation; social wage accruals;
- the procedure for accrual of various types of surcharges and deductions from the income of pharmaceutical workers

Be able to:

- Carry out professional activities in social interaction based on humanistic and ethical principles; identify future professional activities as socially significant for human health.
- Apply knowledge of general and professional disciplines in professional activities.
- Position their professional activities and personal qualities in the pharmaceutical labor market, to formulate the goals of their own activities, taking into account public and industrial interests.
- Argue information for decision-making, be responsible for them in standard and non-standard professional situations; adhere to the principles of deontology and ethics in professional activities.
- Adhere to the rules of communication in professional interaction with colleagues, management, consumers, work effectively in a team.
- Carry out a set of organizational and managerial measures to provide the population and health care facilities with medicines and other products of the pharmacy range.
- Take into account data on socio-economic processes in society for the pharmaceutical supply of the population, determine the effectiveness and availability of pharmaceutical care in terms of health insurance and reimbursement of the cost of medicines.
- collect, recognize and identify from various sources, analyze and interpret information about drugs
- to demonstrate in practical activities communicative communication skills, to form and develop social and labor relations
- substantiate the plan of organizational-methodical and production measures aimed at coordinating the program of activities, solving financial and social issues

3. The content of the discipline

Topic 1. Theoretical foundations of social policy in providing the population with medicines.

Social pharmacy as an academic discipline. Formation and development of the social pharmacy. Goals, values, priorities, key functions, strategies, tasks of the national health care system in modern conditions. Features of financing the health care system in Ukraine. Components of assessment of quality of medical and pharmaceutical care.

Topic 2. Social significance of medicines

Social aspects of creation, state registration and introduction of medicines into production. Introduction of a simplified procedure for registration of medicines.

Topic 3. Strategic priorities for the formation of the pharmaceutical safety system

Definition and structure of national security of Ukraine. Criteria of economic security of the country. Methods of calculating social security indicators. Components of revenue and expenditure parts of state and local budgets. The main indicators of the pharmaceutical service of Ukraine.

Topic 4. Health insurance as a component of the country social policy

Health insurance as a mechanism of state regulation that ensures the availability of pharmaceutical care to the population. Functions and principles of organization of a health insurance as a branch of insurance activity. The main types of health insurance models. Regulatory framework that controls

compulsory and voluntary health insurance in Ukraine. Reimbursement mechanisms for medicines in the EU and the world. Features of a pharmaceutical supply and reimbursement in the context of the introduction of compulsory health insurance in Ukraine. Features of the market of voluntary health insurance in Ukraine, problems and prospects of development.

Topic 5. Social-economic approaches to providing the population with medicines and medical devices

Public procurement system for medicines. The procedure for financing free and preferential dispensing of medicines in the case of outpatient treatment of certain groups of the population and for certain categories of diseases. Implementation of pharmaceutical support of state, municipal and private treatment and prevention institutions. Features of setting the retail price for medicines, medical devices, related pharmaceutical products for various forms of leave. Volunteer and humanitarian aid.

Topic 6. State social guarantees to ensure the professional rights, benefits and income of pharmaceutical workers. Pharmaceutical self-government.

Regulatory framework of professional rights and benefits for pharmaceutical workers. State social guarantees in the field of income of the population. Criteria for determining the size of salaries of administrative and pharmaceutical staff of pharmacies. The order of accrual of various types of payments: wages, for work on holidays, for overtime work, part-time work, benefits in connection with temporary incapacity for work, etc. Procedure for accrual, deduction and payment of mandatory deductions from the income of individuals. Features of the application of social tax benefits. Tax credit.

Topic 7. Social pharmacy and law. Social responsibility of the pharmaceutical business
Features of regulatory framework of the pharmaceutical health care sector. Features of the mission of pharmaceutical business entities. "Social roles" and business ethics. Rules for the proper promotion of medicines by pharmaceutical companies to healthcare professionals. Social projects. Increasing the social attractiveness of the pharmacy in modern conditions. Development of a package of social initiatives for a pharmacy: a mechanism for providing discounts to certain categories of the population, loyalty cards, loyalty programs, accumulative bonuses, etc.

Topic 8. Social marketing in today's pharmaceutical market.

Relationship between the subjects of the pharmaceutical market of Ukraine. Characteristics of domestic producers and analysis of their production. Application of computer technology for market analysis. Methods of pharmacoeconomic analysis for pharmacotherapy schemes. The influence of social-cultural factors of the macroenvironment on the marketing programs of pharmaceutical companies.

Topic 9. The social role of management in pharmaceutical organizations

Paradigm shift of management decisions in the XXI century. Characteristics of computer support of a pharmaceutical company. Assess the level of use of computer technology for the search for information about medicines, the availability of drugs on the market, in order to cooperate with suppliers and order goods, to account the supply and consumption of goods, for reporting, communication with regulatory authorities, etc. Information for consumers. Advantages and disadvantages of free access to information on the use of drugs by a wide range of consumers.

Topic 10. Social-pharmaceutical aspects in providing pharmaceutical care to certain categories of patients. Responsible self-medication and pharmaceutical care

Features of providing pharmaceutical care to certain categories of patients (oncological profile, with rare diseases, palliative care, etc.). Ensuring the availability of drugs in the provision of pharmaceutical care to certain categories of patients. The key problems of non-drug use of drugs and the social role of the pharmacist to prevent it. Social danger in non-medical use of drugs (doping in sports, etc.). The use of pharmaceutical care when dispensing related products of the pharmacy range from pharmacies in order to prevent their competition with drugs. Compliance with legal requirements for advertising of medicines and other goods.

4. The structure of the discipline

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Names of topics	Number of hours					
	Total	including				
		lectures	Seminar classes	practical classes	Labor. classes	ISW
Topic 1. Theoretical base of formation of social policy in providing the population with medicines.	6	2	-	-	-	4
Topic 2. Social significance of medicines	8	-	-	2	-	6
Topic 3. Strategic priorities for the formation of the pharmaceutical safety system	6	-	-	2	-	4
Topic 4. Health insurance as a component of social policy of the country	8	2	-	2	-	4
Topic 5. Social-economic approaches to providing the population with medicines and medical devices	10	-	-	4	-	6
Topic 6. State social guarantees to ensure the professional rights, benefits and income of pharmaceutical workers. Pharmaceutical self-government.	10	2	-	4	-	4
Topic 7. Social pharmacy and law. Social responsibility of the pharmaceutical business	10	-	-	4	-	6
Topic 8. Social marketing in the modern pharmaceutical market.	8	-	-	4	-	4
Topic 9. Social role of management in pharmaceutical organizations	12	2	-	4	-	6
Topic 10. Social-pharmaceutical aspects in providing pharmaceutical care to certain categories of patients. Responsible self-medication and pharmaceutical care	12	2	-	4	-	6
Total	90	10		30		50

5. Topics of Lectures / Seminars / Practical classes / Laboratory Classes

5.1. Topics of lectures

№	Topic name	hours
1	Introduction. Social pharmacy as an academic discipline. Formation and development of social pharmacy. Components of assessment of quality of medical and pharmaceutical care.	2
2	Health insurance as a mechanism of state regulation that ensures the availability of pharmaceutical care for the population.	2
3	Regulatory framework of professional rights and benefits for pharmaceutical workers. State social guarantees in the field of income.	2
4	"Social roles" and business ethics. Social projects.	2
5	Ensuring of the availability of drugs in the provision of pharmaceutical care to certain categories of patients	2
Total		10

5.2. Topics of seminar classes

Seminar classes are not provided.

5.3. Topics of practical classes

№№	Topic name	hours
1	Social aspects of creation, state registration and introduction of medicines into production.	2
2	Strategic priorities of the formation of the pharmaceutical safety system	2
3	The main types of health insurance models. Regulatory framework that controls compulsory and voluntary health insurance in Ukraine.	2
4	Features of pharmaceutical supply and reimbursement in the context of the introduction of compulsory health insurance in Ukraine.	2
5	Public procurement system for medicines.	2
6	The procedure for accrual of various types of payments to the pharmaceutical staff of pharmacies	2
7	Procedure for accrual, deduction and payment of mandatory deductions from the income of individuals. Features of the application of social tax benefits. Tax credit.	2
8	Increasing the social attractiveness of the pharmacy in modern conditions.	2
9	Development of a package of social initiatives for a pharmacy	2

10	Relationship between the subjects of the pharmaceutical market of Ukraine. Characteristics of domestic manufactures and analysis of their production.	2
11	Automated methods of pharmacoeconomic analysis for pharmacotherapy schemes.	2
12	Social role of management in pharmaceutical organizations	4
13	Social-pharmaceutical aspects in providing pharmaceutical care to certain categories of patients. Social danger in non-medical use of drugs.	2
14	Graded Test	2
Total		30

5.4. Topics of laboratory classes

Laboratory classes are not provided.

6. Independent Student Work

№	Topic name	Hours
1	Goals, values, priorities, key functions, strategies, tasks of the national health care system in modern conditions.	4
2	Features of financing the health care system in Ukraine.	4
3	Introduction of a simplified procedure for registration of medicines.	4
4	Criteria of economic security of the country. Methods of calculating social security indicators. The main indicators of the pharmaceutical service of Ukraine.	4
5	Voluntary health insurance market in Ukraine, problems and development prospects.	4
6	Implementation of pharmaceutical support of state, municipal and private treatment and prevention institutions.	4
7	Volunteer and humanitarian aid.	4
8	State social guarantees in the field of income. Criteria for establishing the size of salaries for administrative and pharmaceutical staff of pharmacies.	4
9	Rules for the proper promotion of medicines by pharmaceutical companies to healthcare professionals.	4
10	The influence of social-cultural factors of the macroenvironment on the marketing programs of pharmaceutical companies.	4
11	Assessment of the level of use of computer technologies in the pharmaceutical industry	4

12	The use of pharmaceutical care when dispensing related products of the pharmacy range from pharmacies in order to prevent their competition with drugs.	6
Total		50

7. Teaching methods

Lectures: problem-based lectures, lectures-visualizations, narration, explanation, conversation, instruction, discussion, debate, discussion of problematic situations, situational learning, illustration (including multimedia presentations), demonstration, presentation of the results of own research.

Practical classes: conversation, solving situational problems, practicing skills in developing social programs, calculating social discounts, social contributions from employees' income.

Independent work: independent work with literature, independent solution of case problems

8. Forms of control and evaluation methods (including criteria for evaluating learning outcomes)

Current control: oral survey, testing (form or computer), control written works, evaluation of individual tasks, evaluation of calculation problem solving, evaluation of practical skills, evaluation of communication skills during role play, solution of situational/cases tasks, assessment of activity in class.

Final control: : Grade Test.

Assessment of the ongoing learning activity at the practical class:

1. Assessment of the theoretical knowledge on the theme:
 - methods: individual survey on the theme, participation of the students in the discussion of problem situations;
 - the maximum score – 5, the minimum score – 3, the unsatisfactory score – 2.
2. Assessment of practical skills on the theme:
 - methods: assessment of the solution of situational tasks (including calculation) on the theme;
 - the maximum score – 5, the minimum score – 3, the unsatisfactory score – 2.

Criteria of ongoing assessment at the practical class

Excellent «5»	The applicant is fluent in the material, takes an active part in discussing and solving the situational problem, confidently demonstrates practical skills.
Good «4»	The applicant has a good command of the material, participates in the discussion and solution of the situational problem, demonstrates practical skills.
Satisfactory «3»	The acquirer does not have enough knowledge of the material, takes part in the discussion and solution of the situational problem without confidence, demonstrates practical skills with significant errors.
Unsatisfactory «2»	The applicant does not possess the material, does not participate in the discussion and solution of the situational problem, does not demonstrate practical skills.

Credit Test is considered, if the student has completed all the tasks of the working program of the educational discipline. He/she took actively participated in the practical exercises. The student has an *Odesa national medical university, Department of Organization and economics of Pharmacy with post diploma specialization*

average current rating of at least 3.0 and has no academic debt.

Evaluation of the results of the students' training during the final control – Graded Test

The content of the evaluated activity	Number of points
Presentation of the practice report	2
Answers to theoretical questions.	2

9. Distribution of points, obtained by the student

The obtained average score for the academic discipline for applicants who have successfully mastered the work program of the academic discipline is converted from a traditional four-point scale to points on a 200-point scale, as shown in the table:

Table of Converting the Traditional Grades into the Multi-Point Grading Scale

National Grade	200-Point Grading Scale
Excellent («5»)	185 – 200
Good («4»)	151 – 184
Satisfactory («3»)	120 – 150
Unsatisfactory («2»)	Less than 120

A multi-point scale (200-point scale) characterizes the actual success of each applicant in learning the educational component. The conversion of the traditional grade (average score for the academic discipline) into a 200-point grade is performed by the information and technical department of the University.

According to the obtained points on a 200-point scale, the achievements of the applicants are evaluated according to the ECTS rating scale. Further ranking according to the ECTS rating scale allows you to evaluate the achievements of students from the educational component who are studying in the same course of the same specialty, according to the points they received.

The ECTS scale is a relative-comparative rating, which establishes the applicant's belonging to the group of better or worse among the reference group of fellow students (faculty, specialty). An "A" grade on the ECTS scale cannot be equal to an "excellent" grade, a "B" grade to a "good" grade, etc. When converting from a multi-point scale, the limits of grades "A", "B", "C", "D", "E" according to the ECTS scale do not coincide with the limits of grades "5", "4", "3" according to the traditional scale. Acquirers who have received grades of "FX" and "F" ("2") are not included in the list of ranked acquirers. The grade "FX" is awarded to students who have obtained the minimum number of points for the current learning activity, but who have not passed the final examination. A grade of "F" is given to students who have attended all classes in the discipline, but have not achieved a grade point average (3.00) for the current academic activity and are not admitted to the final examination.

Applicants who study in one course (one specialty), based on the number of points scored in

the discipline, are ranked on the ECTS scale as follows:

Conversion of the traditional evaluation and and ECTS scores

Score on the ECTS scale	Statistical indicator
A	The best 10% students
B	Next 25% students
C	Next 30% students
D	Next 25% students
E	Next 10% students

10. Methodological support

1. The working program of the discipline.
2. Methodical materials and presentations of lectures.
 1. Texts of lectures on the discipline "Social Pharmacy" / LM Unhurian, OI Bieliaieva, IV Vyshnytska, OO Alexandrova. - Odessa: ONMedU, 2021. - 82 p.
3. List of theoretical questions and practical tasks to the credit.
4. Tests
5. Documents to check the skills.

11. Graded test questions

1. Social pharmacy as a discipline. Components of assessment of quality of medical and pharmaceutical care.
2. Social aspects of creation, state registration and introduction of medicines
3. The procedure for state registration (re-registration) of medicines. Basic requirements for registration materials. The amount of the fee for state registration (re-registration) of medicines.
4. The procedure for examination of a medicinal product submitted for state registration (re-registration). Terms of examination. The order of calculations for examination.
5. Procedure for simplified registration of medical products
6. The procedure for providing medicines in case of a pandemic, natural disaster, etc.
7. The main indicators of the pharmaceutical service of Ukraine.
8. Formation of the pharmaceutical safety system
9. Functions and principles of health insurance as a branch of insurance activity.
10. The main types of health insurance models.
11. Regulatory framework that controls compulsory and voluntary health insurance in Ukraine.
12. Reimbursement mechanisms for medicines in the EU and the world.
13. Features of pharmaceutical supply and reimbursement in the conditions of introduction of obligatory medical insurance in Ukraine.
14. Characteristics of the voluntary health insurance market in Ukraine, problems and prospects.
15. Legislative bases of the system of public procurement of medicines, medical devices of technical means of rehabilitation in Ukraine.
16. The procedure for financing free and preferential dispensing of medicines in the case of outpatient treatment of certain groups of the population and for certain categories of diseases.
17. Implementation of pharmaceutical support of state, municipal and private treatment and prevention institutions.

18. Features of free and preferential dispensing of medicines to certain groups of the population and categories of patients.
19. The procedure for providing medicines and medical devices of medical and preventive institutions of Ukraine of various forms of ownership.
20. Features of setting retail prices for medicines.
21. State social guarantees for the provision of professional rights, benefits and income of pharmaceutical workers.
22. Granting social leave to pharmacy employees and their accounting.
23. Payment of various types of social assistance to pharmacy employees.
24. Characteristics of computer support of a pharmaceutical company.
25. Procedure for providing informational assistance to patients.
26. Legislative requirements for information and advertising of medicines and related pharmacy products.
27. Ways to increase the social attractiveness of the pharmacy in modern conditions.
28. Development of a package of social initiatives: a mechanism for providing discounts to certain categories of the population, loyalty cards, loyalty programs, accumulative bonuses, etc.
29. The relationship of the pharmaceutical market of Ukraine. Characteristics of domestic producers
30. The influence of social-cultural factors of the macroenvironment on the marketing programs of pharmaceutical companies.
31. Peculiarities of providing pharmaceutical care to certain categories of patients (oncological profile, with rare diseases, palliative care, etc.).
32. Key issues of non-drug use of medicines and the social role of the pharmacist to prevent it.
33. Social danger in non-medical use of drugs (doping in sports, etc.).
34. The use of pharmaceutical care when dispensing related products of the pharmacy range from pharmacies in order to prevent their competition with drugs.

List of practical skills to prepare students for the graded test

1. To develop an algorithm for calculating retail prices for medicines and other pharmacies goods taking into account regulatory and market approaches to pricing.
2. To set retail prices for pharmaceuticals.
3. To set marginal retail prices including VAT for medicines that are available on discounted and free prescriptions, private and public health care facilities.
4. To draw up documents for the payment of medicines dispensed on preferential and free terms.
5. To calculate the tax credit for pharmacy employees in terms of payment for training, treatment, charitable contributions, etc.
6. To calculate different types of social assistance for pharmaceutical workers.
7. To work out the algorithm of pharmaceutical care during the release from the pharmacy of medical devices and related pharmacy products.
8. To develop an algorithm for providing pharmaceutical care to certain categories of patients (patients with oncological profile, palliative patients, with orphan diseases).
9. To draw up a package of "social attractiveness" of the pharmacy.

12. Recommended literature

Basic

2. Texts of lectures on the discipline "Social Pharmacy" / LM Unhurian, OI Bieliaieva, IV Vyshnytska, OO Alexandrova. - Odessa: ONMedU, 2021. - 82 p.
3. Pharmaceutical Law and Legislation : the textbook for applicants for higher education / A.A. Kotvitskaya, I.V. Kubarieva, A.V. Volkova et al. Kharkiv : NUPh : Golden Pages, 2019.204 p.
4. Organization of pharmaceutical aid to the population / Under ed. prof. Nemchenko A.S. - Kharkov, 2016.- Unit 1, 116 p.

Additional

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1. Comorbidities as factors influencing choice of drug in arterial hypertension therapy/ Vyshnytska Iryna, Unhurian Liana, Bieliaieva Oksana, Pietkova Iryna. Medical theory: collective monograph / Bulavenko Olga, Muntian Olga, Muntian Maksym, Yarovenko Anatolii, etc. International Science Group. Boston: Primedia eLaunch, 2020. P. 68-76. Available at: DOI: 10.46299/isg.2020.MONO.MED.II

2. Methodical approaches to teaching pharmacoeconomics at the faculty of pharmacy/ Vyshnytska Iryna, Unhurian Liana, Bieliaieva Oksana, Smyrnova Olha. Scientific foundations of modern pedagogy: collective monograph / Bets I., Bets Yu., Filippov M., etc. International Science Group. Boston: Primedia eLaunch, 2020. P. 76-82 Available at: DOI: 10.46299/isg.2020.MONO.PED.II

3. Unhurian L., Bielyaieva O., Vyshnytska I., Suschuk N., Petkova I. (2018) Implementation of Standards of Good Pharmacy Practice in the World: A Review. Asian Journal of Pharmaceutics. Vol. 12. N 1 (Suppl). Pp. 42 - 46.

4. Unhurian L., Bielyaieva O., Burenkova N. (2017) Analysis of the Modern Pharmaceutical Market of Anxiolytic Drugs in Ukraine. International Journal of Pharmaceutical Sciences Review and Research. Vol. 43 N 1. Pp. 169 – 172.

5. Standarts for quality of pharmacy services <http://fip.org/files/fip/Statements/latest/Dossier%20004%20total.PDF>

6. Good pharmacy practice in community and hospital pharmacy settings <http://apps.who.int/medicinedocs/documents/s21088en/s21088en.pdf>

7. International health systems http://www.pnhp.org/facts/international_health_systems.php?page=all

8. The legal and regulatory framework for community pharmacies in the WHO European Region <https://apps.who.int/iris/bitstream/handle/10665/326394/9789289054249-eng.pdf>

9. Asset Management Ratios <https://courses.lumenlearning.com/boundless-finance/chapter/asset-management-ratios/>

10. Financial Analysis in Pharmacy Practice E-resource <https://pdfs.semanticscholar.org/3104/8f567e76089ed7d33c5224c3c4c0faec06bf.pdf>

13. Electronic information resources

1. Departments' site: http://info.odmu.edu.ua/chair/economy_pharmacy/files
2. Ministry of Health of Ukraine http://www.moz.gov.ua/ua/portal/dn_20050719_360.html
3. World Health Organization <http://www.who.int/>
4. National Scientific Medical Library of Ukraine <http://library.gov.ua/>
5. National Library of Ukraine named after V.I. Of Vernadsky <http://www.nbu.gov.ua/>
6. HTA [E-resource]. <https://www.hta.ua>
7. FDA [E-resource]. - Access: <https://www.fda.gov>
8. WHO [E-resource]. - Access: <https://www.who.int>