



CALENDAR-THEMATIC PLAN OF LECTURES

in Pharmacology for 3rd course
in specialty 226 Pharmacy, Industrial Pharmacy,
ΦΜ21 (4.10Δ) ΑΗΓΛ-01-11
(autumn semester 2023\2024)

№	Date	Lesson Name	Volume in hours	Lecturer
MODULE 1. GENERAL PHARMACOLOGY. MEDICINES AFFECTING PERIPHERAL NERVOUS SYSTEM AND NEUROTRANSMITTER PROCESSES				
1.	14.09.2023	Introduction to Pharmacology. Basic principles and concepts of pharmacodynamics and pharmacokinetics. Placebo effect. General pharmacology. Classification and principles of the drug dosing. The phenomena that occur during the repeated and combined administration of drugs. Side effects of drugs. Prescription handling.	2	Ass. prof. I.A. Otrishko
2.	28.09.2023	Drugs affecting the afferent innervation.	2	Ass. prof. I.A. Otrishko
3.	12.10.2023	Medicines affecting efferent innervation: pharmacological description of cholinergic agonists and cholinergic antagonists.	2	Ass. prof. I.A. Otrishko
4.	26.10.2023	Medicines affecting efferent innervation: pharmacological description of adrenergic agonists and adrenergic antagonists.	2	Ass. prof. I.A. Otrishko
5.	09.11.2023	Pharmacological correctors of pain and inflammation. Pharmacological correctors of allergy.	2	Ass. prof. I.A. Otrishko
6.	23.11.2023	Pharmacological description of CNS depressants.	2	Ass. prof. I.A. Otrishko
7.	07.12.2023	Pharmacological description of CNS stimulants.	2	Ass. prof. I.A. Otrishko
8.	21.12.2023	Medicines affecting GIT.	2	Ass. prof. I.A. Otrishko
Total:			16	

Note: the lecture takes place online (identifier – 2630021288; password – 1234).

Head of the Department,
Professor

Igor
KIREYEV



CALENDAR-THEMATIC PLAN OF PRACTICAL LESSONS

in Pharmacology for 3rd course
 in specialty 226 Pharmacy, Industrial Pharmacy,
 ФМ21 (4.10Д) АНГЛ-01-11
 (autumn semester 2023\2024)

№	Date	Lesson Name	Volume in hours Type of activity	Knowledge Assessment System, points	
				min	max
CONTENT MODULE 1. GENERAL PHARMACOLOGY. MEDICINES AFFECTING PERIPHERAL NERVOUS SYSTEM AND NEUROTRANSMITTER PROCESSES					
<i>THEMATIC SUBMODULE 1. General pharmacology.</i>					
1.	04-08/ 09/2023	Introduction to Pharmacology. Kinds of action and routes of drugs administration.	3, Pr.Cl.	2	5
2.	11-15/ 09/2023	General pharmacology. Basic principles and concepts of pharmacodynamics and pharmacokinetics.	3, Pr.Cl.	5	7,5
3.	18-22/ 09/2023	Classification and principles of the drug dosing. The phenomena that occur during the repeated and combined administration of drugs. Side effects of drugs. Prescription handling.	3, Pr.Cl.	5	7,5
4.	25-29/ 09/2023	<i>Final test of TS 1 assimilation</i>	3, Pr.Cl.	6	10
Total from Thematic submodule 1:				18	30
<i>THEMATIC SUBMODULE 2. Medicines affecting peripheral nervous system and neurotransmitter processes. Pharmacological correctors of pain, inflammation and allergy.</i>					
5.	02-06/ 10/2023	Drugs affecting the afferent innervation.	3, Pr.Cl.	3	5
6.	09-13/ 10/2023	Medicines affecting efferent innervation: pharmacological description of cholinergic agonists.	3, Pr.Cl.	1,5	2,5
7.	16-20/ 10/2023	Medicines affecting efferent innervation: pharmacological description of cholinergic antagonists.	3, Pr.Cl.	1,5	2,5
8.	23-27/ 10/2023	Medicines affecting efferent innervation: pharmacological description of adrenergic agonists.	3, Pr.Cl.	1,5	2,5
9.	30/10- 03/11/2023	Medicines affecting efferent innervation: pharmacological description of adrenergic antagonists.	3, Pr.Cl.	1,5	2,5
10.	06-10/ 11/2023	Pharmacological correctors of pain and inflammation.	3, Pr.Cl.	1,5	2,5
11.	13-17/ 11/2023	Pharmacological correctors of allergy.	3, Pr.Cl.	1,5	2,5
12.	20-24/ 11/2023	<i>Final test of TS 2 assimilation</i>	3, Pr.Cl.	12	20
Total from Thematic submodule 2:				24	40
<i>THEMATIC SUBMODULE 3. Drugs that affect the function of the central nervous system and gastro-intestinal tract</i>					
13.	27/11- 01/12/2023	Pharmacological description of CNS depressants (part I).	3, Pr.Cl.	3	5
14.	04-08/ 12/2023	Pharmacological description of CNS depressants (part II).	3, Pr.Cl.	3	5
15.	11-15/ 12/2023	Pharmacological description of CNS stimulants.	3, Pr.Cl.	3	5
16.	18-22/ 12/2023	Medicines affecting GIT (part I).	3, Pr.Cl.	1,5	2,5
17.	08-12/ 01/2024	Medicines affecting GIT (part II).	3, Pr.Cl.	1,5	2,5
18.	15-19/ 01/2024	<i>Final test of TS 3 assimilation</i>	3, Pr.Cl.	6	10
Total from Thematic submodule 3:				18	30
THE WHOLE AMOUNT OF HOURS FOR THE MODULE 1			54	60	100

Head of the Department,
Professor

_____ Igor KIREYEV



THE TOPICS OF SELF-DIRECTED LEARNING
in Pharmacology for 3rd course
in specialty 226 Pharmacy, Industrial Pharmacy,
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(autumn semester 2023\2024)

№	Topic
1.	To study the basics of medical prescriptions. To master the rules of prescription of solid, soft and liquid medicinal forms.
2.	To prepare essay on the topic «New medicinal forms and delivery systems of drugs and their impact on the effectiveness of medicines».
3.	To describe medicines containing natural substances.
4.	To prepare essay «Social values and pharmacological aspects of drug addiction».
5.	To prepare essay «Ethyl alcohol. Areas of application in medicine and pharmacology».
6.	To prepare essay «Pharmacological peculiarities of hypertensive drugs».
7.	To prepare essay «Classification, nomenclature and <i>pharmacological characteristics of cerebral blood flow disorders correctors</i> ».
8.	To inquire classification and pharmacological characteristics of drugs that affect metabolism.
9.	To describe antitumor medicines.
10.	To analyze the types of drugs poisoning. Define the concept of antidotes and radioprotectors.
11.	Give the pharmacological characteristic of antiseptics and disinfectants.
12.	To prepare essay on the topic «Antiprotozoal and antispasmodic drugs».

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QUESTIONS FOR CONTENT MODULE CONTROLS #1 – #3

in Pharmacology for 3rd course
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1. Introduction to prescription writing. Prescription writing of solid and soft medicinal forms.
2. Rules of liquid medicinal forms prescription writing.
3. General pharmacology. Kinds of action and routes of administration of drugs. The mechanisms of action, pharmacodynamics and pharmacokinetics of drugs.
4. General pharmacology. Classification and principles of the drug dosing. The phenomena that occur during the repeated and combined administration of drugs. Side effects of drugs.
5. Drugs affecting the afferent innervation.
6. Medicines affecting efferent innervation: pharmacological description of cholinergic agonists.
7. Medicines affecting efferent innervation: pharmacological description of cholinergic antagonists.
8. Medicines affecting efferent innervation: pharmacological description of adrenergic agonists and antagonists.
9. Pharmacological correctors of allergy.
10. Pharmacological correctors of pain and inflammation. Medicines for general anesthesia. Alcohols.
11. Psychotropic and neurotropic drugs with inhibitory action. Antipsychotics. Tranquilizers. Sedatives. Hypnotics. Anticonvulsants. Antiparkinsonics.
12. Psychotropic and neurotropic drugs with excitatory action. Psychostimulants. Antidepressants. Nootropics. Analeptics. Actoprotectors. Adaptogens.
13. Drugs that affect the function of the gastrointestinal tract: appetite correctors, emetic, anti-emetic, anti-ulcer, gastroprotectors.
14. Drugs that affect the function of the gastrointestinal tract: hepatoprotectors, spasmolytic, choleric (choleric, cholekinetiks) and cholelytics, laxative drugs.
15. Drugs that affect the function of the urinary-genital system. Diuretics. Antigouts.

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THE CRITERIA OF STUDY ACTIVITY ASSESSMENT IN PRACTICAL CLASSES

in Pharmacology for 3rd course
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(autumn semester 2023\2024)

Scale	Criteria	1.5-2.5	3-5
«5» excellent 90-100%	<ul style="list-style-type: none"> • Tasks for self-study for the lesson are done full and correctly • Answers to theoretical questions on the topic of the lesson are given correctly and clearly • Practical tasks during the in-class work were carried out full and correctly • Final test has done in within 90-100%. 	2.3-2.5	4.5-5
«4» very good 82-89%	<ul style="list-style-type: none"> • Tasks for self-study for the lesson are done full and correctly • Answers to theoretical questions on the topic of the lesson are given full with negligible error • Practical tasks during the in-class work were carried out with negligible error • Final test has done in within 82-89%. 	2.1-2.2	4.1-4.4
«4-» good 74-81%	<ul style="list-style-type: none"> • Tasks for self-study for the lesson are done with negligible error • Answers to theoretical questions on the topic of the lesson are given incomplete with error • Practical tasks during the in-class work were carried out with negligible deviation • Final test has done in within 74-81%. 	1.9-2.0	3.7-4
«3» satisfactory 64-73%	<ul style="list-style-type: none"> • Tasks for self-study for the lesson are done with significant error • Answers to theoretical questions on the topic of the lesson are given incomplete or with significant error • Practical tasks during the in-class work were carried out with significant deviation • Final test has done in within 64-73%. 	1.6-1.8	3.2-3.6
«3-» enough 60-63%	<ul style="list-style-type: none"> • Tasks for self-study for the lesson are done partly with significant error • Answers to theoretical questions on the topic of the lesson are given incomplete with significant error • Practical tasks during the in-class work were carried out partly with significant deviation • Final test has done in within 60-63%. 	1.5	3-3.1
«2» unsatisfactory 0-59%	<ul style="list-style-type: none"> • Tasks for self-study for the lesson aren't done or are done incorrect • Answers to theoretical questions on the topic of the lesson aren't given • Practical tasks during the in-class work weren't carried out are done incorrect • Final test has done in within 0-59% 	0-1.4	0-2.9



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Credit – 4

Total hours – 120

Lectures – 16

Practical classes – 54

Self-directed learning – 53

Semester control (Module #1) – CREDIT

National	ECTS	Grade	Credit	1.8-3	5.4-9	Inter- mediate module 30 points	Current control 60 points	Final module control 40 points
5	A — excellent	90-100	credit	2.7-3.0	8.1-9	27-30	54-60	36-40
4	B — very good	82-89	credit	2.5-2.6	7.4-8	24.6-26.9	49.2-53.9	32.8-35.9
4-	C — good	74-81	credit	2.2-2.4	6.7-7.3	22.2-24.5	44.4-49.1	29.6-32.7
3	D — satisfactory	64-73	credit	1.9-2.1	5.8-6.6	19.2-22.1	38.4-44.3	25.6-29.5
3-	E — enough (satisfies the minimum criteria)	60-63	credit	1.8	5.4-5.7	18-19.1	36-38.3	24-25.1
2	F – unsatisfactory (with possibility of repeated pass)	35-59	no credit	1.1-1.7	3.2-5.3	10.5-17.9	21-35.9	14-23.9
no admission	FX — unsatisfactory with an obligatory repeated course (additional work is necessary)	1-34	—	0-1.0	0-3.1	0-10.4	0-20.9	0-13.9