

Pharmacology course
for 3rd year students of general medicine faculty
in the autumn semester session 2023-2024

List of lectures (16 hours)

Each lecture – 2 hours.

No	Date	Topic
<i>General principles of prescription order writing. General pharmacology</i>		
1.	1.09 - 14.09	Introduction to pharmacology. Basic principles of pharmacokinetics and pharmacodynamics.
<i>Pharmacology of drugs affecting the peripheral nervous system</i>		
2.	15.09 - 28.09	Introduction to pharmacology of autonomic nervous system. Cholinergic agonists. Anticholinesterases.
3.	29.09 - 12.10	Muscarinic cholinergic antagonists. Ganglion-blocking drugs. Neuromuscular- blocking drugs.
4.	13.10 - 26.10	Adrenergic agonists.
5.	27.10 - 9.11	Adrenergic antagonists.
<i>Pharmacology of drugs affecting the central nervous system</i>		
6.	10.11 - 23.11	Pharmacology of analgesics. Narcotic (opioid) analgesics. Non-narcotic analgesics.
7.	24.11 - 7.12	Antipsychotic drugs. Anxiolytic and hypnotic drugs
8.	8.12 - 14.12	Drugs used in affective disorders

***Head
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Ph.D., M.D.***

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List of practicals (30 hours)

Each practical lasts 2 hours.

No	Date	Topic
<i>General principles of prescription writing. General pharmacology</i>		
1.	1.09 – 7.09	General principles of prescribing drugs.
2.	8.09 – 14.09	Basic principles of pharmacokinetics.
3.	15.09 – 21.09	Basic principles of pharmacodynamics.
<i>Pharmacology of drugs affecting the peripheral nervous system</i>		
4.	22.09 – 28.09	Cholinergic agonists.
5.	29.09 – 5.10	Cholinergic antagonists.
6.	6.10 – 12.10	Adrenergic agonists.
7.	13.10 – 19.10	Adrenergic antagonists.
8.	20.10 – 26.10	Final test “Drugs affecting the peripheral nervous system”.
<i>Pharmacology of drugs affecting the central nervous system</i>		
9.	27.10 – 2.11	General anesthetics. Local anesthetics.
10.	3.11 – 9.11	Sedative-hypnotic drugs. Alcohols.
11.	10.11 – 16.11	Antiepileptic drugs. Drugs used to treat neurodegenerative diseases.
12.	17.11 – 23.11	Narcotic (opioid) analgesics. Non-narcotic analgesics.
13.	24.11 – 1.12	Antipsychotic drugs. Anxiolytic and hypnotic drugs
14.	2.12 – 7.12	Drugs used to treat affective disorders. Psychomotor stimulants. Analeptics. Nootropic agents
15.	8.12 – 14.12	Final test “Drugs affecting the central nervous system”.

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Self-study work (50 hours)

Topic	Hours
Preparation for practical classes	34
Self-study of topics which are not included into classroom lessons:	16
<i>General principles of prescription order writing. General pharmacology</i>	
1. Solid and semisolid dosage forms	1
2. Liquid dosage forms	1
3. Basic and clinical evaluation of new drugs.	1
4. Drug interactions. Adverse effects of drugs.	1
5. Basic principles of pharmacogenetics .	1
6. Mechanisms of synaptic transmission. Receptors as targets for drugs action.	1
<i>Pharmacology of drugs affecting the peripheral nervous system</i>	
7. Pharmacology and toxicology of tobacco smoking. Toxicity of organophosphates. Drugs used in organophosphate poisoning.	1
8. Role of adrenergic agonists in the treatment of shock and bronchial asthma.	1
9. β_1 -selective adrenoblockers. β -adrenoblockers with intrinsic sympathomimetic activity. β -adrenoblockers with vasodilating action.	1
<i>Pharmacology of drugs affecting the central nervous system</i>	

10. General anesthetics. Balanced anesthesia. Premedication.	2
11. Drug dependence and drug abuse.	1
12. Pharmacology of drugs used to treat migraine.	1
13. Pharmacology of antidepressants and lithium salts.	1
14. Pharmacology of psychomotor stimulants and analeptics.	1
15. Nootrops. Adaptogens.	1

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