

PRIVATE HIGHER EDUCATIONAL INSTITUTION
"INTERNATIONAL ACADEMY OF ECOLOGY AND MEDICINE"
Department of Social Medicine and Preventive Medicine

SYLLABUS
EDUCATIONAL DISCIPLINE

"Clinical pharmacology"

LEVEL OF HIGHER EDUCATION Second (master's) level

DEGREE OF HIGHER EDUCATION Master

FIELD OF KNOWLEDGE 22 Healthcare

SPECIALTY 221 Dentistry

Considered and approved
at a meeting of the Department of Internal
Medicine with a course in endocrinology Doctor of
Medical Sciences, Postrelko Valentin
Protocol № 1 from "09" IX 2020

Kyiv 2020

1. general information						
Subjects		Clinical pharmacology				
Teacher (s)		Candidate of Medical Sciences, Associate Professor Potaskalova Viktoria				
Teacher's contact phone number		+380 95 832 88 33				
Teacher's e-mail		doktorviktoria@gmail.com maemendocrinology@gmail.com				
Discipline format		Normative discipline				
The scope of discipline		30				
Link to the distance learning site						
Consultations		Not on the program				
2. Discipline abstract						
The subject of study of the discipline "Clinical Pharmacology" are changes in the patient's body under the influence of drugs (pharmacodynamics), as well as their transformation in the body (pharmacokinetics); patterns between the chemical structure, physicochemical properties and pharmacological action of drugs; the use of drugs for the treatment of specific patients and for prophylactic purposes.						
3. The purpose and objectives of the discipline						
<i>The purpose of studying the discipline "Clinical Pharmacology":</i>						
The purpose of teaching the course "Clinical Pharmacology" is to acquire a sufficient amount of theoretical knowledge and practical skills for the most rational drug therapy in a particular patient, the methodology of choosing the most effective and safe drugs and their combinations, taking into account individual characteristics, course and form of the disease. the presence of concomitant pathology, based on evidence-based medicine.						
<i>The objectives of studying the discipline "Clinical Pharmacology":</i>						
The main objectives of the discipline "Clinical Pharmacology" are to acquire theoretical knowledge to determine the group affiliation of drugs, their pharmacokinetics, pharmacodynamics, manifestations of possible side effects, symptoms of overdose, measures to prevent and eliminate adverse reactions, the main indications for the appointment and interaction other medicines and acquisition of practical skills, in particular the choice of the necessary drug, adequate dosage form, dosage regimen of administration to patients with major dental diseases; providing the necessary standard pharmacotherapeutic care for the most common emergencies						
4. Learning outcomes (competencies)						
As a result of studying the discipline "Clinical Pharmacology"						
KNOW:						
<ul style="list-style-type: none"> the main ways of pharmacological correction of diseases, disorders of organs and systems; nomenclature and classification of drugs, pharmacological and pharmacotherapeutic characteristics of the main groups of drugs; manifestations of possible side effects of drugs, symptoms of overdose of potent and poisonous drugs, methods of their prevention and principles of treatment. 						
BE ABLE TO:						
<ul style="list-style-type: none"> prescribe and analyze prescriptions for drugs in various dosage forms in accordance with modern legislation of Ukraine; provide pharmacological and pharmacotherapeutic characteristics of drugs, logically link the mechanism of action with pharmacodynamics, pharmacodynamics with indications, and side effects with contraindications to their use; determine depending on the pharmacokinetics of drugs, the frequency of drug administration, its daily, course dose in patients of different ages in accordance with comorbidities and the use of other drugs; predict the consequences of the interaction of drugs in their combined administration, drugs and food components, drugs and alcohol; provide rational pharmacotherapeutic care for the most common dental diseases and emergencies found in dentistry. 						
5. Organization of the study of the discipline						
<i>The volume of the course</i>						
Type of lesson		Total number of hours		30		
Lectures				0		
Seminars				20		
Independent work				10		
<i>Signs of the course</i>						
Semester	Specialty		Course (year of study)	Normative / selective		
7	221 Dentistry		4	Normative		
<i>Course topics</i>						
Theme, plan		Form of employ ment	literature	Tasks, hours	Estimati on weight	Deadline
Topic 1. Subject, problem of clinical pharmacology. Clinical Pharmacodynamics, Pharmacokinetics. Curve patients.		Practical	Basic, auxiliary - in accordance with paragraph 8	2 hours	2	According to the schedule

Topic 2. Clinical and pharmacological characteristics of antianginal and antisheim	Practical	Basic, auxiliary - in accordance with paragraph 8	2 hours	2	According to the schedule
Topic 3. Clinical and pharmacological characteristics that affect the vascular tone (antihypertensive and hypertensive).	Practical	Basic, auxiliary - in accordance with paragraph 8	2 hours	2	According to the schedule
Topic 4. Clinical and pharmacological characteristics of drugs that affect blood coagulation (fibrinolytics, anticoagulants, anti-aggregates, coagulants).	Practical	Basic, auxiliary - in accordance with paragraph 8	2 hours	2	According to the schedule
Topic 5. Clinical and pharmacological characteristics of antibacterial	Practical	Basic, auxiliary - in accordance with paragraph 8	2 hours	2	According to the schedule
Topic 6. Clinical and pharmacological characteristics of anti-inflammatory drugs (non-steroidal and steroids).	Practical	Basic, auxiliary - in accordance with paragraph 8	2 hours	2	According to the schedule
Topic 7. Clinical and Pharmacological Characteristics of LS for general and local anesthesia and antiseptics	Practical	Basic, auxiliary - in accordance with paragraph 8	2 hours	2	According to the schedule
Topic 8. Clinical and pharmacological characteristics of drugs that affect bronchial patency and anti-allergic drugs.	Practical	Basic, auxiliary - in accordance with paragraph 8	2 hours	2	According to the schedule
Topic 9. Interaction: Definition, Types, Features in Dental Practice. Side effect: Prevention and treatment.	Practical	Basic, auxiliary - in accordance with paragraph 8	2 hours	2	According to the schedule
Topic 10. Protection of UDRS. Test.	Practical	Basic, auxiliary - in accordance with paragraph 8	2 hours		
independent work Features of modern solid dosage forms. Children's dosage forms. Modern devices for delivery of medicines. Intermediates. Pharmacology of dopamine and histamoregic drugs. Stimulants and serotonin receptor blockers.	independently	Basic, auxiliary - in accordance with paragraph 8	Tests 10 hours	1	According to the schedule

6. Course evaluation system

General course evaluation system

Current control is based on the control of theoretical knowledge, skills and abilities in practical classes. The student's independent work is assessed in practical classes and is part of the final assessment of the student. Current control is carried out during classes and aims to verify the assimilation of students' learning material. Forms of current control are:

- test tasks with the choice of one correct answer, with the definition of the correct sequence of actions, with the definition of compliance;
- individual oral examination, interview;
- solving typical situational problems;
- control of practical skills;
- solving typical tasks of diagnosis, medical care, medical evacuation, treatment and prevention.

Grades in the national scale ("excellent" - 5, "good" - 4, "satisfactory" - 3, "unsatisfactory" - 2), received by students, are displayed in the journals of attendance and academic group performance.

Final control of learning success is carried out in the form of diff. credit (oral and test tasks).

The maximum number of points that a student can score for current educational activities for admission to the PC is 120 points.

The minimum number of points that a student must score for the current academic activity for admission to the exam is 72 points. The calculation of the number of points is based on the grades obtained by the student on the traditional (national) scale during the study of the discipline during the semester, by calculating the arithmetic mean (CA), rounded to two decimal places.

Assessment of students' independent work. Students' independent work, which is provided by the topic of the lesson along with the classroom work, is assessed during the current control of the topic in the relevant lesson. Assimilation of topics that are submitted only for independent work is checked during the final module control.

Table 1. Conversion of the average grade for current activities in a multi-point scale (for disciplines that end with an exam (differentiated credit))

4-point scale	120-point scale	4-point scale	120-point scale	4-point scale	120-point scale	4-6point scale	120-point scale
5	120	4,45	107	3,91	94	3,37	81
4,95	119	4,41	106	3,87	93	3,33	80
4,91	118	4,37	105	3,83	92	3,29	79
4,87	117	4,33	104	3,79	91	3,25	78
4,83	116	4,29	103	3,74	90	3,2	77
4,79	115	4,25	102	3,7	89	3,16	76
4,75	114	4,2	101	3,66	88	3,12	75
4,7	113	4,16	100	3,62	87	3,08	74
4,66	112	4,12	99	3,58	86	3,04	73
4,62	111	4,08	98	3,54	85	3	72
4,58	110	4,04	97	3,49	84	* Less 3	Not enough
4,54	109	3,99	96	3,45	83		
4,5	108	3,95	95	3,41	82		

The maximum number of points that a student can score during the final control of the student's acquisition of knowledge is 80 points.

Table 2. Scale of assessment of differentiated (exam) credit:

National scale	Score scale	Assessment of the final
«5»	70-80	
«4»	60-69	
«3»	50-59	final

control is considered credited if the student scored at least 60% of the maximum amount of points (for a 200-point scale - at least 50 points).

The final number of points that the student scored in the discipline is defined as the sum of points for the current educational activity (Table 1) and for the final control (differentiated credit) (Table 2).

Requirements for final test control	<p>The final test control is credited to the student if he demonstrates the possession of practical skills and scored at least 50 points in the test control of theoretical training.</p> <p>The maximum number of points for the final control of the student (differential test) - 80 points.</p> <p>Criteria for assessing students for final control are carried out according to the scheme:</p> <p>"2" - 0-49 points; "3" - 50-60 points; "4" - 61-70 points "5" - 71 - 80 points</p> <p>Assessment of the final test task is carried out by dividing the maximum score of the final control - 80 - by the number of test questions in the variant and multiplied by the number of correct test answers of the student.</p>
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Practical training	Module 1
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Classroom work (Content module 1)

T 1-10	Amount - 200 (The maximum number of points that a student can score for the current educational activity, the minimum is 120 points).
Control work	10
Test	10
Working in pairs	20
Abstract	40
Conditions of admission to the final control	Semester control is provided in the form of credit. Provides a final grade on a 200-point scale as the sum of grades for the current control of knowledge (oral examination, tests, examination of abstracts), the results of the content module.

7. The policy of studying the discipline

The organization of the educational process is carried out with the use of the European Credit Transfer System (ECTS) to assess student performance. The points gained in the current survey, independent work and points of the final control are credited. This must take into account the student's presence in class and his activity during practical work. Inadmissible: absences and late classes; use of a mobile phone, tablet or other mobile devices during the lesson (except for the cases provided by the curriculum and methodical recommendations of the teacher); copying and plagiarism; untimely performance of the task, the presence of unsatisfactory assessments and more submitted theoretical and practical material.

8. Recommended literature

Basza:	<ol style="list-style-type: none"> 1. Pharmacology: a tutorial for studs. Fed / Chekman I.S., Gorchakova N.O., Kazak L.I. [etc.]; Ed .. Prof. I.S. Chekman. - View.4-te. - Vinnitsa: New Book, 2017. - 784 p. 2. Chekman I.S., Bobyrev VM, Krasong V.V., Gedovan V.V., Gorchakova N.O., Kazak L.I., Coffee T.V., Ostrovskaya G.Yu. Petrova T.A., Ryabushko M. M. - Pharmacology: Textbook for studs. a stack. F-ths of higher honey. Teach. institutions (2nd edition). - Vinnitsa Nova Book, 2014. - 432 p. 3. Pharmacology: Training for students of the students founded: translated with Ukr.Yazyk / Chekman I.S., Gorchakova N.A., Kazak L.I. [et al.]; Under ed .. Prof. I.S. Chekman. -New: New Book, 2013. - 792 s 4. Pharmacology - CITO! (Pharmacology. Logs.): Trainer for knobs / Ed. SM Draft. - Kharkov: Sim, 2016 - 236 p. 5. Pharmacology. A course of lectures. Scientific edition. - Vinnitsa: LLC "Nylan Ltd", 2016 - 512 p. 6. Fundamentals of the medicinal formulation: teach. manual / ed .. K.A.Posokhova, O.M.Oleshchuk. - Ternopil: TDMUE 2015. - 92 p. 7. Medical Recipe: Tutorials /it.O.Davatkina, E.G. Colot, R.V.Lcenko. - 3rd view., Processing. and Dop. 2013. -104C.
Auxiliary:	<ol style="list-style-type: none"> 1. IV. Nonkovel, T.V. Kazanyuk.Pharmacology: Textbook (I-III A.) 8th edition. All-Ukrainian Specialized Publishing House "Medicine", 2018. - 552C. 2. Compendium 2019 - Lecard preparations / Ed. VN Kovalenko, A.P. Victory. - K.: MORION, 2019 - 2240 p. 3. Chekman I.S., Viktorov O.P., Gorchakova N.O. etc. Nonsteroidal anti-inflammatory drugs: efficiency, availability, eligibility for the patient. Pharmacovision for the safety of application. - Kiev: Polygraph Plus, 2011. - 118 p. 4. droduction SM, Gudzenko AP, Bucllo Ya.A., Dr. V.V. Patient depleting of medicines: Trainer-Wellness. - x: »Sim», 2011. - 480s. 5. Order of the Ministry of Health of Ukraine No. 360 dated July 19, 2005 "On the procedure for prescription of prescriptions and release of medicines and medical products from pharmacies" and with changes to it (Order of the Ministry of Health of Ukraine November 11, 2011 N 777). 6. Pharmacology / Ed. R.N. Alouthedin. - 4th ed. the age. and DOP. - Moscow: Geotar, 2013. - 832 p. 7. Dr. S. M. Pharmacology on the palms: Textbook - Reference book / droduction of S.M. : PP "Pleiada", 2005.-116 p.

Senior lecturer of the department



Candidate of Medical Sciences, Associate Professor
Potaskalova Viktoria