

ODESSA NATIONAL MEDICAL UNIVERSITY

Medical faculty

Department of General Pharmacy with the course of Clinical Pharmacology

Syllabus of the discipline

«CLINICAL PHARMACOLOGY»

Amount	Credits (ECTS) – 1,0	Total number of hours – 30
Year of study	5	
Semester	9,10	
Days, time, places	In accordance with the approved schedule	
Teachers	Nikohosyan L.R., the head of department, doctor of medical sciences, professor Strechen S.B., candidate of medical sciences, docent Vidavskaya A.G., candidate of medical sciences, docent Tregub T.V., candidate of medical sciences, docent Poludenko A.A., assistant	
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Work place	Bazarnaya street, 77	
Consultation	According to the schedule of the department	

COMMUNICATION info.odmu.edu.ua/chair/general_pharmacy/

Microsoft Teams

COURSE SUMMARY

The subject of the discipline is 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.

Prerequisites and postrequisites of the course: medical biology, normal and pathological physiology, microbiology, medical chemistry, pharmacology, pathomorphology, laboratory and functional diagnostics, pharmacotherapy.

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.

The main objectives of the discipline "Clinical Pharmacology" is to acquire a sufficient amount of theoretical knowledge and practical skills to of individual selection of effective and safe drugs based on pharmacokinetics conduct the most rational drug therapy in a particular patient, mastering the methodology, pharmacodynamics, possible side effects. age of the patient, optimal dosage forms, compilation of rational combinations of drugs.

Expected results:

The student must know: - 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.

The student must be able to: - 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;

- to provide rational pharmacotherapeutic care for the most common diseases of internal organs and emergencies that occur in the practice of an internist.

COURSE DESCRIPTION

Forms and methods of teaching: the course of clinical pharmacology provides and is taught in the form of practical classes (20 hours) and independent work of students (10 hours).

Course content:

Topic 1. Subject, tasks of clinical pharmacology. Clinical pharmacodynamics, pharmacokinetics of drugs.

Topic 2. Clinical and pharmacological characteristics of antihypertensive and hypertensive drugs. Inspection of patients.

Topic 3. Clinical and pharmacological characteristics of antianginal, antiischemic and hypolipidemic drugs.

Topic 4. Clinical pharmacology of drugs that affect the ability of blood to coagulate (thrombolytics, anticoagulants, antiplatelet drugs, coagulants).

Topic 5. Clinical and pharmacological characteristics of anti-inflammatory drugs (nonsteroidal and steroidal).

Topic 6. Clinical and pharmacological characteristics of antibacterial drugs.

Topic 7. Clinical and pharmacological characteristics of drugs that affect bronchial patency.

Topic 8. Clinical and pharmacological characteristics of drugs that affect the functions of the gastrointestinal tract, hepatobiliary system and pancreas.

Topic 9. Differential test.

List of recommended literature:

1) Basic and clinical pharmacology. – 9-th edition / Edited by Bertram G. Katsung. – Medical Publishing Division. - 2004. – 1202 p.

2) Pharmacology in rehabilitation. – 4-th edition / Charles D. Ciccone, PT. – USA, 2007. – 653 p.

3) Clinical pharmacology: Manual for practical classes. – 2-nd edition / Edited by O.V.Kraydashenko. – Vinnytsya: Nova Khyzna Publishers, 2010. – 192 p.

4) Emergency management of internal diseases / Edited by O.Babak and O.Bilovol. – Kyiv: AUS Medicine Publishing, 2010. – 448 p.

5) Clinical pharmacology: Tutorial for independent training of students / S.Strechen, T.Tregub. - Odessa: ONMU, 2012. - 239 p.

6) Godovan V.V. Pharmacology in pictures and schemes. – Nova Knyha, 2021. - 464 p.

7) V.I.Kresyun, S.B.Strechen, A.G.Vidavskaya, T.V.Tregub,

I.V.Pogorelaya, A.A.Poludenko. Educational and methodical manual to practical training in clinical pharmacology for the students of medical faculty. - Educational handbook. – Odessa, 2016. – 108 p.

Internet resources:

1. State Expert Center of Ministry of Health of Ukraine
<http://www.dec.gov.ua/index.php/ua/>
2. National Scientific Medical Library of Ukraine <http://library.gov.ua/>
3. Resources for predicting inter-drug interactions (based on FDA instructions, in English) URL: <http://www.drugs.com>
4. Resource-Directory of Medicines and Forecasting of Intercurricular Interactions (in English). URL: <http://www.medscape.org>
5. Bulletin of Evidence-Based Medicine: <http://www.evidence-update.ru>
6. European Society of Clinical Pharmacologists and Pharmacists:
<http://www.eacpt.org>
7. Resources for drug interactions: <http://medicine.iupui.edu/flockart/>

EVALUATION

General evaluation system	Participation in the work during the cycle on a 200-point scale	
Rating scales	Traditional 4-point scale, multi-point (200-point) scale, ECTS rating scale	
Conditions of admission to the final control	Students who have attended all classes provided by the curriculum, performed all types of work provided by the program and received grades sufficient to convert to the minimum number of points (not less than 120 points for current performance) are allowed to the final control.	
Differential test	Is to assess the student's mastery of educational material solely on the basis of the results of his performance of certain types of work in practical classes and during independent work, conducted in the last lesson of the discipline. Differential student test is assessed on a 4-point (traditional) scale. The average score for the discipline (traditional grade) is calculated as the arithmetic mean of current performance and grades for differential test.	<i>Maximum number of points – 200.</i> <i>Minimal number of points – 120.</i>

INDEPENDENT WORK OF STUDENTS involves preparation for practical classes and differential test, keeping a workbook, writing research work, is controlled during the test of current knowledge of students and differential test.

CLINICAL PHARMACOLOGY COURSE POLICY

Deadline and recompilation policy

Students who have completed all types of work provided for in the initial program, completed all training sessions and scored at least the minimum number of points during the study of the module are admitted to the final control.

Rehearsals of missed practical classes, regardless of the reason for admission, and consultations take place in accordance with the departmental schedule of rehearsals and consultations. The practice of missed practical classes is carried out with an entry in the journal of the department's work and a mark on the permit form from the dean's office. Rearrangement of the current and final modules in order to increase the assessment is not allowed, except for situations provided by the "Regulations on the diploma of the state standard with honors".

Academic Integrity Policy

Observance of academic integrity by students of education provides:

- independent performance of educational tasks, tasks of current and final control of learning outcomes (for persons with special educational needs this requirement is applied taking into account their individual needs and opportunities);
- links to sources of information in the case of the use of ideas, developments, statements, information;
- compliance with the legislation on copyright and related rights;
- providing reliable information about the results of their own (scientific, creative) activities, used research methods and sources of information.

Unacceptable in educational activities for participants in the educational process are:

- the use of family or business ties to obtain a positive or higher assessment in the implementation of any form of control over learning outcomes or advantages in scientific work;
- use of prohibited auxiliary materials or technical means (cheat sheets, abstracts, headphones, telephones, smartphones, tablets, etc.) during control measures;
- passing the procedures of control of learning outcomes by fictitious persons.

For violation of academic integrity, students may be held subject to the following academic liability:

- reduction of results of assessment of control work, examination, credit, etc.);
- re-assessment (test, exam, test, etc.);
- appointment of additional control measures (additional individual tasks, tests, tests, etc.);
- re-passing the relevant educational component of the educational program;
- conducting additional verification of other works by the infringer;
- deprivation of the right to participate in competitions for scholarships, grants, etc .;
- notification of the entity that finances the training (research), the institution that issued the grant for training (research), potential employers, parents of the applicant for higher education about the violation;
- exclusion from the rating of applicants for an academic scholarship or accrual of penalty points in such a rating;
- deprivation of an academic scholarship;
- deprivation of tuition benefits provided by the University;
- expulsions from the University.

Attendance and lateness policy: attendance at all classes: practical classes, current and final control is mandatory (exception: good reason). Delay of more than 5 minutes without good reason is not allowed. Within two days, in any form convenient for the student, inform the dean's office about the reasons that make it impossible to attend classes and perform other tasks provided by the curriculum.

Mobile devices: it is forbidden to write off during knowledge control (including the use of mobile technical means of information transfer).

Audience behavior:

- attend lectures, practical classes according to the schedule in bathrobes;
- do not be late for class;
- do not talk during classes;
- turn off your mobile phone.