



48SJ-CLP
ECTS: 2
YEAR: 2024Z

CLINICAL PHARMACOLOGY
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COURSE CONTENT
CLASSES

Achieving practical pharmacotherapeutical skills. 1. Clinical Pharmacology - definition, purpose, tasks and importance in clinical practice. Pharmaceutical therapy. Clinical tests 2. Side effects of drugs. Drug interactions. Elements of pharmacogenetics 3. Changes in drug action due to kinetics disorders in the states fatological (pharmacotherapy in nephrological patients). 4. Pharmacotherapy in newborns, infants, children and the elderly century. Pharmacotherapy during pregnancy, while breastfeeding. The influence of drugs on the results of laboratory tests. 5. Cancer treatment. Biological drugs. Drugs used in rheumatology. (clinical scenarios), 6. Principles of pharmacological treatment of stroke. Treatment of basic diseases mental. Contemporary pharmacotherapy of pain. Drug addiction therapy Treatment of acute poisoning. (clinical scenarios) 7. Pharmacotherapy in endocrinology, Pharmacotherapy of diabetes Drug. med. Smyk 8. Pharmacotherapy of bacterial infections and parasitic invasions. pharmacotherapy asthma and COPD (clinical scenarios) 9. Drugs used in gastroenterology and hepatology. pharmacotherapy of gastrointestinal symptoms and disease ulcer acute treatment for chronic hepatitis C and B infection (clinical scenarios) 10. Pharmacological therapy in the practice of the Cardiologist (scenarios Clinical); ischemic heart disease, arrhythmias, acute and chronic heart failure 11. Pharmacotherapy of the main diseases of the Family Doctor practice. (clinical scenarios)

LECTURES

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EDUCATIONAL OBJECTIVE:

The primary goal of clinical pharmacology course is to relate basic pharmacological knowledge to clinical practice. It is important that students understand aspects drug therapy in terms of their effectiveness and safety. Clinical scenarios will allow to gain practical skills associated with pharmacotherapy. After completing the course the student should be familiar with clinical pharmacology, general concepts and issues of pharmacodynamics, pharmacokinetics and pharmacoeconomics, the principles of drug action and have knowledge of the drug groups in terms of mechanisms of action, clinical effects, it's fate in human body, the indications and contraindications, side effects, interactions and dosage rules. It has a basic knowledge of pharmacotherapy of cardiovascular, nervous, digestive, endocrine system diseases also diseases of the skin and sensory organs.

DESCRIPTION OF LEARNING OUTCOMES FOR THE COURSE IN RELATION TO FIELD AND MAJOR LEARNING OUTCOMES

Codes of learning outcomes in a major field of study:	M/NM+++,
Codes of learning outcomes in a major area of study:	C.U13.+ , C.U14.+ , C.U15.+ , C.U16.+ , C.U17.+ , C.W.34.+ , C.W.36.+ , C.W.37.+ , C.W.38.+ , C.W.39.+ , C.W.40.+ , C.W35.+ , C.W41.+ , C.W42.+ , C.W43.+ , C.W44.+ , C.W45.+ , C.W46.+ , E.U17.+ , E.U18.+ , E.U19.+ , E.U31.+ , E.U33.+ , E.U34.+ , E.W43.+ , K.1.+ , K.11.+ , K.4.+ ,

LEARNING OUTCOMES:

Knowledge

W1 - Students can explain the types of pharmacokinetic processes, clinical consequences of genetic changes in the drugs pharmacokinetics, clinical criteria, types of drug interactions, the benefits associated with monitored therapy and factors influencing the occurrence of drug-induced complications. He has expertise in the treatment of basic clinical states.

Skills

U1 - Student makes a simple evaluation of pharmacokinetic and adjusts the dose in different pathological situations (liver and renal failure), creates patterns of rational pharmacotherapy, using for this purpose the pharmacological database of medicinal products.

Social competence

K1 - Student is aware of appearance on the market many of pharmaceuticals, many of which have uncertain or malicious actions. Understands that the result of improper use of drugs is the increase of hospitalization which affect on health care budgets.

BASIC LITERATURE

1) Bertram G. Katzung, Basic and clinical pharmacology, wyd. McGraw-Hill Medical, 2012

SUPPLEMENTARY LITERATURE

Course/module:	Clinical Pharmacology
Fields of education:	
Course status:	mandatory
Course group:	B - przedmioty kierunkowe
ECTS code:	
Field of study:	Medicine
Specialty area:	Medicine
Educational profile:	General academic
Form of study:	full-time
Level of study:	uniform master's studies
Year/semester:	5 / 9
Type of course:	Classes
Number of hours per semester/week:	Classes: 30
Teaching forms and methods	Classes(K1, U1, W1) : practical classes
Form and terms of the verification results:	CLASSES: Written test - written colloquium(null) ; CLASSES: Colloquium test - written colloquium(K1, U1, W1)
Number of ECTS points:	2
Language of instruction:	English
Introductory courses:	Pharmacology and Toxicology
Preliminary requirements:	Knowledge of issues from pharmacology and toxicology.
Name of the organizational unit offering the course:	Katedra Farmakologii i Toksykologii,
Person in charge of the course:	dr n. med. Krzysztof Nosek, , lek. Łukasz Smyk,
Course coordinators:	
Notes:	-

Detailed description of the awarded ECTS points - part B

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The awarded number of ECTS points is composed of:

1. Contact hours with the academic teacher:

- participation in: classes	30 h.
- consultation	2 h.
	32 h.

2. Student's independent work:

- gaining knowledge from specialized also online literature	18 h.
	18 h.

1 ECTS point = 25-30 h of the average student's work, number of ECTS points = 50 h : 25 h/ECTS = 2,00 ECTS

on average: **2 ECTS**

- including the number of ECTS points for contact hours with direct participation of the academic teacher:	1,28 ECTS points,
- including the number of ECTS points for hours completed in the form of the student's independent work:	0,72 ECTS points,