



48SJ-PHAT13

ECTS: 3

YEAR: 2021L

PHARMACOLOGY AND TOXICOLOGY 1/3

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COURSE CONTENT
CLASSES

Exercise Antibiotics, antiviral drugs, antifungal drugs, antiparasitic drugs - general information, mechanisms of action, side effects, indications, contraindications, interactions. Antibacterial and disinfectant substances. Introduction to the pharmacology of AUN: receptors, mediators, agonists and antagonists, mechanisms of action of substances. Drugs that act on the parasympathetic system directly and indirectly - general information, side effects, indications, contraindications, interactions. Drugs affecting the sympathetic nervous system - general information, side effects, indications, contraindications, interactions. SEMINARS Fundamentals of general pharmacology. Origin of drugs, drug manufacture, drug form and its influence on action. Legal regulations on drugs, drug introduction and production, safety of pharmacotherapy, side effects of drugs. Fundamentals of pharmacodynamics - basic information, drug-receptor interactions, mechanisms of drug action, pharmacodynamic interactions. Fundamentals of pharmacokinetics - release, absorption, distribution, metabolism and excretion of foreign substances. Pharmacokinetic interactions and clinical significance of these parameters.

LECTURES

General pharmacology. Elements of pharmacokinetics. Pharmacodynamics. Drug interactions at the level of pharmacokinetics and pharmacodynamics. Adverse drug reactions. Autonomic system drugs. Modern antibiotic therapy.

EDUCATIONAL OBJECTIVE:

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.U18.+ , C.U19.+ , 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.W48.+ , K.1.+ ,

LEARNING OUTCOMES:

Knowledge

W1 - The student can discuss the mechanisms of action of drugs, side effects, toxicity, and potential interactions that may occur during polytherapy. Has knowledge of indications, contraindications, and dosing of drugs. Knows the rules of use of antimicrobial agents, principles of conduct in the treatment of poisoning. Has knowledge of the developmental age pharmacology and geriatrics

Skills

U1 - the student is able to use the appropriate sources of information about the drug, indicates the benefits and risks associated with the use of known drugs

Social competence

K1 - The student is able to establish and maintain a deep and respectful contact with the patient. He directs the good of the patient, placing them in the first place. Respects the medical confidentiality and patient rights. It is aware of his own limitations and the ability to lifelong learning.

BASIC LITERATURE

1) Rang H.P., Dale M.M., Ritter J.M., Flower R., Mirowska-Guzel D., Czlonkowski A., Farmakologia Rang i Dale, wydanie 2, wyd. Elsevier, 2015 ; 2) Katzung B.G., Trevor A.J., Basic&Clinical Pharmacology, wyd. McGrawHill Education, 2015

SUPPLEMENTARY LITERATURE

Course/module:

Pharmacology and Toxicology 1/3

Fields of education:

Course status: mandatory

Course group: A - przedmioty podstawowe

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: 2 / 4

Type of course:

Classes, Seminar, Lecture

Number of hours per semester/week: Classes: 10, Seminar: 20, Lecture: 10

Teaching forms and methods

Classes(K1, U1, W1) : multimedia presentation with discussion, work with literature, problem analysis., Seminar(K1, U1, W1) : Multimedia presentation with discussion, Lecture(K1, U1, W1) : lecture with multimedia presentation

Form and terms of the verification results:

CLASSES: Colloquium test - Students should get 60% to pass the test.(K1, U1, W1) ; SEMINAR: Colloquium test - Students should get 60% to pass the test.(K1, U1, W1) ; LECTURE: Colloquium test - Students should get 60% to pass the test.(K1, U1, W1)

Number of ECTS points: 3

Language of instruction: English

Introductory courses:

Preliminary requirements:

Name of the organizational unit offering the course:

Katedra Farmakologii i Toksykologii,

Person in charge of the course:

dr Łukasz Puchała, , dr n. med. Krzysztof Nosek,

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	10 h.
- participation in: seminar	20 h.
- participation in: lecture	10 h.
- consultation	2 h.
	42 h.

2. Student's independent work:

- getting acquainted with the summary of product characteristics of the drugs in question, familiarization with the current recommendations for the use of these drugs. search for scientific articles.	33 h.
	33 h.

1 ECTS point = 25-30 h of the average student's work, number of ECTS points = 75 h : 25 h/ECTS = 3,00 ECTS
on average: **3 ECTS**

- including the number of ECTS points for contact hours with direct participation of the academic teacher:	1,68 ECTS points,
- including the number of ECTS points for hours completed in the form of the student's independent work:	1,32 ECTS points,