

REQUIREMENTS

Semmelweis University, Faculty of General Medicine – single, long-cycle medical training programme

Name of the host institution (and any contributing institutions):

Department of Pharmacology and Pharmacotherapy

Name of the subject: A kábítószer-abúzus kérdései

in English: Medicinal, Epidemiological, and Social Aspects of Drug Abuse

in German: Fragen des Drogenabusus

Credit value: 2

Semester: 8th and 10th

(as defined in the curriculum)

Total number of classes per week:	lectures: 2	practical lessons:	seminars:
--	--------------------	---------------------------	------------------

Type of subject: compulsory optional elective

(PLEASE UNDERLINE AS APPLICABLE)

Academic year: 2023/2024 2nd semester

Language of instruction, for optional or elective subjects: English

Course code: AOVFRM252_1A

(In the case of a new subject, this cell is filled in by the Dean's Office, following approval)

Course coordinator: Dr. habil. Mahmoud Al-Khrasani, Pharm. D., Ph.D.

His workplace, phone number: Department of Pharmacology and Pharmacotherapy, +3612104416/ ext. 56122

Position: associate professor

Date and registration number of their habilitation:

06 June 2019 (01/2019), Semmelweis University

Objectives of the course and its place in the medical curriculum:

Natural sedative, stimulant, euphorizing or hallucinogenic agents have been known for thousands of years. Non-medical use of such agents as well as their abuse have always been present during the history of civilization. The border between abuse and medical use is sometimes very narrow. This elective course of the "Medicinal, epidemiological and social aspects of drug abuse" widens the view and the knowledge of future physicians based on scientific observations, data and results; may make them more open and sensitive to this issue. This is the only comprehensive subject in the medical curriculum up to now.

Place of instruction (address of lecture hall or seminar room etc.):

Nagyvárad tér 4.

1089 Budapest

NET Building 1st floor

NET L-3 or L-4 or L-5 laboratory room (depending on the schedules)

Competencies acquired through the completion of the course:

Understanding the mechanisms of drug addiction and dependence. Acquiring deeper knowledge about drugs of abuses – their classification, old and new, included designer drugs, acute and chronic effects, consequences of their abuse. Understanding the behavioral changes, addictive cycle. The therapy of drug addiction. Getting insights to the epidemiological and social aspects of drug abuse. Getting familiar with the legal issues, drug policies in different countries, human rights aspects, preventive measures and harm reduction.

Prerequisites for course registration and completion:

Pharmacology II AOKFRM678_2A or Pharmacology II FOKOFRM254_1A

Conditions for concurrent course registration and permission thereof in the case of a multi-semester subject:

-

Student headcount conditions for starting the course (minimum, maximum) and method of student selection:

minimum 10, maximum 30

no special selecting procedures, as NEPTUN fills up

Detailed course description:

(Theoretical and practical instruction must be broken down into lessons (weeks), numbered separately. Please provide the names of lecturers in both types of lessons, indicating guest lecturers. This information is not to be attached separately. CVs of guest lecturers, however, must be attached.)

1st week: Introduction, general concepts. Non-medical use of drugs. Drugs of abuse. Classification of scheduled drugs under WHO control. Vulnerability. Tolerance, physical and psychological dependence. Molecular basis of drug addiction. – Julia Timár, M.D., Ph.D. retired associate professor

2nd week: Opioids. Pharmacological action of opioid agonists and antagonists. Opioid receptors, endogenous ligands. Characteristics of opioid dependence. – Mahmoud Al-Khrasani, Pharm.D., Ph.D. associate professor or Pál Riba, M.D., Ph.D. associate professor

3rd week: Psychomotor stimulants. Pharmacological action of amphetamine, its derivatives (methamphetamine, MDMA-“Ecstasy”, etc.) and cocaine. Role of the dopaminergic transmission in the drug abuse. - Julia Timár, M.D., Ph.D. retired associate professor

4th week: Hallucinogens. Ethanol. Pharmacological action of hallucinogens, (LSD, mescaline, phencyclidine, etc.). Role of the serotonergic transmission in hallucination. Characteristics of ethanol dependence. - Julia Timár, M.D., Ph.D. retired associate professor

5th week: Marijuana (hasis, THC) Pharmacological action of cannabinoids. Cannabinoid receptors and their endogenous ligands. – Tibor Wenger, M.D., D.Sc., retired professor

6th week: Sedative-hypnotics. Pharmacological action of benzodiazepines, barbiturates, other sedative-hypnotics. Characteristics of prescription drug dependence. Polydrug-abuse. – István Bitter, M.D., D.Sc. professor emeritus

7th week: Epidemiological data. Significance of epidemiological data collection. Forms of questionnaires. Tendency of drug abuse, national (Hungarian) and international data. High risk groups. – Zsuzsanna Elekes, D.Sc, sociologist (Corvinus University) (guest lecturer)

8th week: Pharmacological treatment. Traditional medicinal treatment and new methods. Medical treatment of withdrawal symptoms, replacement therapy. Treatment of overdose. Prevention of relapse. – Mahmoud Al-Khrasani, Pharm.D., Ph.D., associate professor

9th week: Psychotherapy. Individual and group therapy. The problems of long-term rehabilitation. Counselling. – Andrea Bodrogi, M.D. psychiatrist (guest lecturer)

10th week: Drug abuse and society. Legal issues. Statutory rules and regulations. Human rights. – Dr. Erik Látrányi, attorney (guest lecturer)

11th week: Role of public and civil organisations. Role, task and potential of governmental and non-governmental organisations in the prevention of drug abuse. – Péter Sárosi, human

rights activist (guest lecturer)

12th week: Prevention and harm-reduction. Primary, secondary and tertiary prevention. Demand-reduction and harm-reduction. Early recognition. Rehabilitation, social reintegration. – Dr. Katalin Felvinczi, psychologist (ELTE) (guest lecturer)

13th week: Psychosocial questions of drug abuse. Psychosocial aspects. Self-destructive attitudes. Psychological and social background. Role, task and possibilities of the medical doctor. - Dr. Katalin Felvinczi (ELTE) (guest lecturer)

14th week: Multiple choice test exam

Related subjects due to interdisciplinary fields (both compulsory and elective) and potential overlaps between subjects:

Pharmacology, Toxicology, Psychiatry, Sociology, Psychology

Attendance requirements; conditions under which students can make up for absences and the method of absence justification:

According to the Study and Examination Regulations Article 29 section 2a) presence is not obligatory on the lectures. Due to the individual topics no make up is possible

Form of assessment in the study period:

(including the number, topics and scheduling of oral and written tests, their share in the overall evaluation, make-up tests and improvement tests)

-

Number and type of assignments for individual work and the deadline for submission:

-

Requirements to obtain the teacher's signature:

Registration to the course through the NEPTUN system.

Type of assessment (*comprehensive examination, end-term examination, term-grade, term-grade on a three-grade rating scale, no examination*):

Test exam with multiple choice questions. Performance assessment: a rating scale of five grades, such as: excellent (5), good (4), average/fair(3), satisfactory/pass(2), unsatisfactory/fail(1) according to the number of correct answers.

Examination requirements:

(*list of examination topics, subject areas of tests / examinations, lists of mandatory parameters, figures, concepts and calculations, practical skills*)

There is no topic list as the exam is written. The lectures slides are provided to help the students prepare to the exam.

Method and type of grading:

(*Share of theoretical and practical examinations in the overall evaluation. Inclusion of the results of the end-of-term assessment. Possibilities of and conditions for offered grades.*)

Marks are determined based on the percentage of correct answers of the test exam.

85-100%: excellent (5)

70-84%: good (4)

55-69%: average (3)

40-54%: satisfactory (2)

less than 40%: unsatisfactory (1)

List of course books, textbooks, study aids and literature facilitating the acquisition of knowledge to complete the course and included in the assessment, precisely indicating which requirement each item is related to (e.g., topic by topic) as well as a list of important technical and other applicable study aids:

For pharmacological basics: Basic and Clinical Pharmacology (Ed. B. G. Katzung), 15th edition, McGraw-Hill Education, 2021. ISBN 978-1 260 45231 0

All the aspects: lecture material Moodle (<https://itc.semmelweis.hu>)

Signature of habilitated instructor (course coordinator) announcing the course:



Mahmoud Al-Khrasani, PharmD, PhD
associate professor

Signature of the director of the host institution:



Péter Ferdinandy, MD, DSc, MBA
Head of Department

Date of submission:

April 28, 2023