



UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE GRIGORE T. POPA IAȘI

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SYLLABUS

1. Programme Details

1.1.	“GRIGORE T. POPA” UNIVERSITY OF MEDICINE AND PHARMACY FROM IAȘI
1.2.	FACULTY OF MEDICINE / DEPARTMENT: Morpho-functional Sciences II
1.3.	DISCIPLINE: Pharmacology, Clinical Pharmacology and Algesiology
1.4.	FIELD OF STUDY: HEALTH
1.5.	STUDY CYCLE: BACHELOR
1.6.	PROGRAMME OF STUDY: Medicine English

2. Discipline Details

2.1.	Name of the Discipline: P(Personal)-drug and individual variation in drug response						
2.2.	Teaching staff in charge with lectures: Prof. Dr. Cristina Mihaela GHICIUC						
2.3.	Teaching staff in charge with seminar activities: -						
2.4. Year	V	2.5. Semester	I	2.6. Type of evaluation	Colloquium	2.7. Discipline regimen	Optional

3. Overall Time Estimates (hours/semester of didactic activity)

3.1. Number of hours per week	2	Of which: 3.2. lectures	2	3.3. seminar/ laboratory	-
3.4. Total hours in the curriculum	14	Of which: 3.5. lectures	14	3.6. seminar/ laboratory	-
Distribution of time					Hours
Study time using coursebook materials, bibliography and notes					6
Further study time in the library, online and in the field					12
Preparation time for seminars / laboratories, homework, reports, portfolios and essays					12
Tutoring					2
Examinations					4
Other activities					-
3.7. Total hours of individual study					36
3.8. Total hours / semester					50
3.9. Number of credits					2



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4. Prerequisites (where applicable)

4.1. curriculum	Previous knowledge on basic and clinical pharmacology, on physiology, on pathophysiology, on internal medicine
4.2. competences	Prescribing of drugs

5. Conditions (where applicable)

5.1. for lecture delivery	Minimum number: 30 participants, maximum accepted: 40 participants
5.2. for seminar / laboratory delivery	-

6. Specific Competences Acquired

Professional Competences (knowledge and skills)	<ul style="list-style-type: none"> Differentiate medication non-adherence and compliance Describe measures to quantitate medication non adherence Discuss efforts towards prevention and management of non adherence Decision-making: ability to choose a drug (P-drug) to be prescribed regularly for a particular patient and with whom you have become familiar; reduce the chances of irrational prescribing, to evaluate the effects of age and chronic diseases on drug dosage requirements and serum concentrations.
Transversal Competences (roles, personal and professional development)	<ul style="list-style-type: none"> Communication and interpersonal skills: ability to cooperate with colleagues and to develop the qualities of professionalism. Problem solving and advisory role: ability to assess situations and to find appropriate solutions regarding the P-drug that can vary from doctor to doctor, country to country because of variation of cost or other factors.

7. Objectives of the Discipline (related to the acquired competences)

7.1. General Objective	To become able to prescribe individualized drug-treatment for patients.
7.2. Specific Objectives	<ol style="list-style-type: none"> To detect, monitor, and improve medication adherence. To choose P(Personal)-drug, based on guidelines and patient individual particularities, to be sure that the choice will be effective or safe for an individual patient. Good prescription practices in order to adjust the practice accordingly to individual variation in drug response that can be predictable.

8. Contents

8.1. Lecture	Teaching methods	Comments
Lecture 1 - Medication adherence - assessment and factors	Powerpoint/ oral presentation	2 hours
Lecture 2 - Barriers to medication adherence and methods to increase medication adherence	Powerpoint/ oral presentation	2 hours
Lecture 3 - P-drug (Personal drug) concept for drug treatment optimization, polypharmacy and realistic prescribing	Powerpoint/ oral presentation	2 hours
Lecture 4 - Interindividual variability: pharmacodynamic, pharmacokinetic, and genetic factors	Powerpoint/ oral presentation	2 hours
Lecture 5 - Effect of age on drug dosage requirements and serum concentrations	Powerpoint/ oral presentation	2 hours

Lecture 6 - Hepatic diseases: effects on drug dosage requirements and serum concentrations	Powerpoint/ oral presentation	2 hours
Lecture 7 - Renal diseases: effects on drug dosage requirements and serum concentrations	Powerpoint/ oral presentation	2 hours
Bibliography		
1. Gast, A., Mathes, T. Medication adherence influencing factors—an (updated) overview of systematic reviews. Syst Rev 8, 112 (2019). https://doi.org/10.1186/s13643-019-1014-8		
2. NIH: Self-Administration of Medicines Procedure - Southern Health, January 2019.		
3. NICE guideline: Medicines optimization: the safe and effective use of medicines to enable the best possible outcomes, March 2015.		
4. Lauschke VM, Zhou Y, Ingelman-Sundberg M. Novel genetic and epigenetic factors of importance for inter-individual differences in drug disposition, response and toxicity. Pharmacol Ther. 2019;197:122-152.		
5. https://www.cdc.gov/grand-rounds/pp/2017/20170221-presentation-medication-adherence-H.pdf		
8.2. Seminar / Laboratory	Teaching methods	Comments
Not applicable		
Bibliography		

9. Correlations between the contents of the discipline and the expectations of the epistemic community, of profesional associations and of employers in the field

Knowledge and skills are set as teaching objectives and specified as such in analytical programs reviewed annually. After analysis within the discipline, these are discussed and approved within the Curriculum Bureau, in the sense of harmonization with other disciplines. Throughout this process, the correspondence between content and the expectations of the academic community, community representatives, professional associations and employers is systematically assessed, as far as possible. As a primary goal, the discipline aims to provide students with the optimal prerequisites for the next years of study in the Bachelor of Medicine program, in order to successfully hire, immediately after graduation, residency programs in Romania and other EU countries.

10. Evaluation

Type of activity	10.1. Evaluation criteria:	10.2. Methods of evaluation	10.3. Percentage of final grade
10.4. Lecture	Portfolio / projects / case presentation / essays / summaries / homework	Colloquium	100%
10.5. Seminar / Laboratory	-		
	-		
Minimum standard of performance: at least grade 5 to pass the discipline			

Date: 7.05.2021

Name and Signature of Didactic Co-ordinator
Prof dr Radu Iliescu

Name and Signature of Department Director
Prof dr Carmen Cotrutz