

Faculty of Medicine / STOMATOLOGY / CLINICAL PHARMACOLOGY

Course:	CLINICAL PHARMACOLOGY			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
6718	Mandatory	5	2	1+1+0
Programs	STOMATOLOGY			
Prerequisites	There is no conditionality.			
Aims	Students will gain knowledge and competence to make a rational choice of drug in accordance with scientific basis of clinical pharmacology, to determine dose, monitor therapeutic efficacy and recognize side effects. To be competent to implement the pharmacotherapy to oral diseases and emergencies that can befall a patient in dental office, to prepare pharmacologically patients of risk groups for dental intervention. To have knowledge to escape the adverse interactions between drugs that prescribe and medicines provided by medical reasons. Have knowledge to competently prescribe medication.			
Learning outcomes	After finishing one term of study in Clinical pharmacology, the student of dentistry should have the following learning outcomes : 1. The student is competent to make a rational drug selection, to set a dose, follow its therapeutic effectiveness and to recognize the possible adverse effects, according to scientific basics of clinical pharmacology. 2. He/she is qualified to convey pharmacotherapy of all oral diseases and urgent states, which can befall the patient in the dental clinic. 3. He/she is competent to pharmacologically prepare for dental interventions the patients with risky groups (cardiovascular, psychiatric, children, the anxious, with special needs). 4. Has the knowledge of application of all medicaments in dentistry and the knowledge to avoid unwanted interactions between given and taken medicine, because of other illnesses.			
Lecturer / Teaching assistant	Prof. Nataša Duborija-Kovačević, MD, PhD; Jana Djapic, MD, teaching assistant; Slobodanka Marojevic, MD, professional assistant			
Methodology	Lectures, exercises, seminars, consultations.			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Introduction to the subject. Preclinical and clinical investigation of drugs.			
I week exercises	Basic concepts in clinical pharmacology.			
II week lectures	Principles and methods of preclinical and clinical testing of drugs.			
II week exercises	Prescription I.			
III week lectures	Factors that influence the effect and dosage of drugs in dentistry.			
III week exercises	Prescription II.			
IV week lectures	Individualization of pharmacotherapy and application of medicines in specific groups.			
IV week exercises	Prescribing of solid forms of drugs. Examples from dental practice.			
V week lectures	Clinically important drug interactions in dental practice.			
V week exercises	Prescribing of liquid forms of drugs. Examples from dental practice.			
VI week lectures	Anticipation, monitoring and reporting of adverse effects of drugs in dental practice.			
VI week exercises	Prescribing of semi-solid forms of drugs and inhalations. Examples from dental practice.			
VII week lectures	Damage of the oral tissues that may arise in the course of intra-oral and systemic administration of drugs. Drugs that increase the risk of surgical treatment in dentistry.			
VII week exercises	Reporting Form for ADR.			
VIII week lectures	Sedation in Dentistry.(Seminar)			
VIII week exercises	Optimal choice and prescribing of drugs for sedation in dentistry, with a special emphasis on high-risk groups. Examples.			
IX week lectures	Pharmacological preparation of risk groups of patients for dental intervention.(Seminar)			
IX week exercises	Optimal choice and prescribing of drugs for the treatment of the most common emergencies in dentistry. Examples.			
X week lectures	Pharmacotherapy of painful conditions in dentistry I.(Seminar)			
X week exercises	Optimal choice and prescribing of drugs for the treatment of painful conditions in dentistry I.			

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	Examples.					
XI week lectures	Pharmacotherapy of painful conditions in dentistry II.(Seminar)					
XI week exercises	Optimal choice and prescribing of drugs for the treatment of painful conditions in dentistry II. Examples.					
XII week lectures	Pharmacotherapy of infections in dentistry I.(Seminar)					
XII week exercises	Optimal selection and prescribing of drugs for the treatment of infection in dentistry I. Examples.					
XIII week lectures	Pharmacotherapy of infections in dentistry II. (Seminar)					
XIII week exercises	Optimal selection and prescribing of drugs for the treatment of infection in dentistry II. Examples.					
XIV week lectures	Pharmacotherapy of inflammatory and immune diseases in dentistry.(Seminar)					
XIV week exercises	Optimal selection and prescribing of drugs for the treatment of inflammation and immunological diseases in dentistry. Examples.					
XV week lectures	Pharmacological control of bleeding in dentistry. Caries prevention.(Seminar)					
XV week exercises	Pre-exam exercise.					
Student workload	Per week: 2 credits x 40/30 = 2.6 hours. Structure: 1 hour lecture, 1 hour exercise, 0.6 hours of individual work including consultations. Per semester: Teaching and the final exam (2.6 h x 16 = 41.6h). Necessary preparation (before semester enrollment, etc ...): 2.6 h x 2 = 5.2h. Total load: 2 x 30 = 60 h. Additional work: 18.2 h. The structure of the load: 41.6h + 5.2h + 18.2h.					
Per week			Per semester			
2 credits x 40/30=2 hours and 40 minuts 1 sat(a) theoretical classes 0 sat(a) practical classes 1 excercises 0 hour(s) i 40 minuts of independent work, including consultations			Classes and final exam: 2 hour(s) i 40 minuts x 16 =42 hour(s) i 40 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 2 hour(s) i 40 minuts x 2 =5 hour(s) i 20 minuts Total workload for the subject: 2 x 30=60 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 12 hour(s) i 0 minuts Workload structure: 42 hour(s) i 40 minuts (cources), 5 hour(s) i 20 minuts (preparation), 12 hour(s) i 0 minuts (additional work)			
Student obligations			The presence on lectures, exercises and seminars is obligatory. Preparation and presentation of seminars on the topic is required and assessed.			
Consultations			The teacher and assistants held consultations once a week, in a period that is defined at the beginning of the study year.			
Literature			1. Terzic MR, Stojic MD. Pharmacology in dentistry. IP Belgrade, Zrenjanin 2010 (selected chapters from clinical pharmacology) 2. D. Stojić, M. Terzić, M. Milošević. Recipe basics for dental students. IP Belgrade, Zrenjanin, 2004. 3. Duborija-Kovačević N et al. Prescription Drug Forms, First Edition. PRISMA corporate communications, Podgorica 2015 (selected chapters) 4. Tomić Z, editor-in-chief. Medicines 2009-handbook			
Examination methods			Colloquium - 30 points; Seminar 10 points; Final exam (theoretical and practical part) 50 points. Passing grade gets if cumulative collect the minimum of 50 points.			
Special remarks			In order to consolidate thematic units, hours of theoretical and practical training are held every other week alternately for 2 hours.			
Comment			No.			
Grade:	F	E	D	C	B	A
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points