**CLINICAL PHARMACOLOGY**

**5th year of Dentistry**

**Seminars:**

During the course, students will take part in interactive lectures and lectures presented by teacher. Each participant of the seminar will describe in orally the project selected by him/her from a list provided by the teacher. The presentation should be focusing on the most relevant information about the process/drug selected (f.eg. for a drug: the drug release from the dosage form, administration of the drug, its metabolism, and removing from the body – LADME/ADME process). During the course of classes 2 test will be done to confirm acquired knowledge of students.

1. The first part of the classes: Introduction to Clinical Pharmacology course. Description of activities, forms of student’s activity during class assessment, an introduction to Clinical Pharmacology classes during the winter semester, establishment of organizational matters.

The second part of the classes: Interactive lecture. Concepts and methods used in clinical pharmacology - the description of the pattern of drug in the body.

1. Interactive lecture. Drug interactions, drug interaction implications.
2. Interactive lecture. Factors determining the adverse effects of drugs, organ damage and organ dysfunction of the body. Methods of prevention and monitoring of adverse drug reactions.
3. Lecture. Determination of drug influence on the patient's laboratory results.
4. Lecture. Changes of drug action in relation to the patient's pathological condition.
5. Lecture. Diversity of age and physiological condition of the patient, and its influence to the use of medication, due to the pharmacotherapy of newborns, pregnant women and nursing mothers, or the elderly.
6. Interactive lecture. Pharmacogenetics and pharmacogenomics - what and for whom? Introduction to the classes of clinical trials.
7. Interactive lecture. Subdivision of disinfectants in dentistry (organic and inorganic).
8. Interactive lecture: Evidence Based Medicine, EBM and Good Clinical Practice, GCP
9. Second part of classes: practice of writing Yellow Chart for adverse drug effects. Pharmacoeconomics and social pharmacology: Comparative seminar. Perioperative antibiotic prophylaxis:basic principles of antibiotic prophylaxis according to Peterson (1990r.) Surgical division due to risk of postoperative infections (Ehrenkranz, 1993)

**Basic literature:**

1. Basic & Clinical Pharmacology, Katzung BG, Mc Graw Hill, 10th Ed, 2007
2. Goodman & Gilman’s, The Pharmacological Basis of Therapeutics. L Brunton, J Lazo, IBuxton, D Blumenthal, McGraw-Hill, 11th Ed, 2006

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