

Pharmacology for 3rd year Dental Students

Description of Pharmacology for Dental Students

Pharmacology as a subject deals with active substances, medicines and poisons. The aim is to notify an interdisciplinary knowledge that involves the interaction of chemical compounds with the human body and the effects of medicines on the physiological and pathological functions. We discuss the mechanism of interaction between drugs and the human organism, indications and contraindications as well as the possible harmful consequences of drug administrations (*general pharmacology*). The mechanism of neurotransmission in the *autonomic nervous system* comprises the basic knowledge for most of the drugs acting on the *central nervous system* and *cardiovascular system*. Those drugs that have particular importance in the dental practice will be worth considering (*local anesthetics, pain control, antibiotics*). During the pharmacological course we also discuss the 'fate' of medicines in the human body and those kinetic parameters by which a drug accumulates in the organs and, then, eliminates from the site of their action. In addition drugs that poisons the human organism will also be studied (*toxicology*).

Requirements for the accomplishment of study duty for dental medical students in Pharmacology

The conditions to accomplish study duties are as follows:

Students are required to attend the lectures and practical studies that will be controlled by the practical teachers. **In case of absence over 25 % the department will refuse the acceptance of the semester.**

Five interim exams (demonstrations) in the form of essay questions and multiple choice questions must be accomplished for the acceptance of the two semesters:

1/ General Pharmacology (essay questions)

2/ Pharmacology of the autonomic nervous system and local anesthetics (multiple choice tests)

3/ Prescription writing

4/ Pharmacology of central nervous system (essay questions)

5/ Pharmacology of cardiovascular system (multiple choice tests).

At the end of the first semester, the form of assessment is an evaluation (mark 1 to 5) derived from the 1st, 2nd and 3rd demonstrations. If the average of the three demonstrations is 1 (failed), the student should perform a written exam (multiple choice test) during the exam period of the first semester. At the end of the second semester the result of a written exam gives the final mark.

Suggested readings:

Neal: Medical Pharmacology at a Glance, Goth's Medical Pharmacology,

Rang & Dale: Pharmacology, Katzung: Basic & Clinical Pharmacology

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