

Pharmacology – practical courses
Dentistry
Mon, Wen, Thu – 7.30 h – 10 h 10.20 h – 12.50 h
Tue, Fri - 8.00 h – 10.30 h 10.45 h – 13.15 h

Monday

Pract. course 1

INTRODUCTION TO THE STUDY OF PHARMACOLOGY

Contents of the study of Pharmacology, contents and organization of theoretical and practical courses and lectures, required and recommended textbooks. The conditions for granting the credit.

Pharmacology – definition, basic terminology, subspecializations, drug nomenclature. Introduction to the prescription terminology. Classification of drug preparations. Pharmacopoea, Pharmacopoea Bohemica.

Pract. course 2

INTRODUCTION TO THE PHARMACOKINETICS

Transport of drugs across biological barriers. Basic pharmacokinetic processes. Pharmacokinetic parameters. Pharmacokinetics of single and repeated intravascular and extravascular drug administration. Therapeutic drug monitoring (therapeutic monitoring of drug plasma concentrations).

Tuesday

Pract. course 3

GENERAL RULES OF THE DRUG PRESCRIPTION

Medical prescription and its essentials. Prescription of drugs. Legislation of drug prescription. Work with various handbooks and databases (SÚKL database, Pharmindex, AISLP etc.). Prescription and provision of narcotic and psychotropic substances.

Pract. course 4

PRESCRIPTION OF READY MADE PREPARATIONS – practice. SOLID DRUG DOSAGE FORMS

Prescription of selected drug forms (solid drug dosage forms – powders, capsules, tablets, suppositories).

Wednesday

Pract. course 5

FLUID DRUG DOSAGE FORMS

Prescription of selected drug forms (fluid drug dosage forms – solutions for rubbing, compresses and lavages, solutions and drops for oral administration).

Pract. course 6

SOFT AND MELTING DRUG DOSAGE FORMS

Prescription of selected drug forms (soft and melting drug dosage forms – ointments, creams, pastes, gels and other preparations for applications to the skin and mucous membranes).

SPECIAL PRESCRIPTION OF INDIVIDUALLY PREPARED DRUGS USED IN STOMATOLOGY

(mucoadhesive pastes, solutions, suspensions, gels, ointments, pastes).

Thursday

Pract. course 7

PRESCRIPTION TEST (PRESCRIPTION OF INDIVIDUALLY PREPARED AND READY MADE PREPARATIONS)

PHARMACOLOGY OF PERIPHERAL NERVOUS SYSTEM – introduction

Terminology, neurotransmissions in peripheral nervous system, adrenergic and cholinergic receptors, agonists and antagonists. Functional importance and possibilities of pharmacological affection of sympathetic and parasympathetic system.

Pract. course 8

NOADRENERGIC (SYMPATHETIC) DRUGS – introduction

Receptors of noradrenergic (sympathetic) system, pharmacology of drugs activating and blocking noradrenergic (sympathetic) system.

Friday

Pract. course 9

MULTIPLE CHOICE FINAL (CREDIT) TEST OF PHARMACOLOGY (MCHQ – topics lessons from days 1 to 4)

NORADRENERGIC (SYMPATHETIC) DRUGS – completion

Receptors of noradrenergic (sympathetic) system, pharmacology of drugs activating and blocking noradrenergic (sympathetic) system.

Pract. course 10

CHOLINERGIC (PARASYMPATHETIC) DRUGS

Receptors of cholinergic (parasympathetic) system, pharmacology of drugs activating and blocking cholinergic (parasympathetic) system.

CREDITS