

## **Pharmacology - practical courses, Dentistry, Spring semester 2014**

**Monday – Friday: 7.30 – 10.00 10.20 – 12.50**

### **/1/ INTRODUCTION TO THE STUDY OF PHARMACOLOGY**

Contents and organisation of practical courses and lectures, required and recommended textbooks. Conditions for credit. Pharmacology - definition, basic terminology, subspecializations, drug nomenclature. Introduction to the prescription terminology. Classification of drug preparations. Pharmacopoea.

### **/2/ INTRODUCTION TO THE PHARMACOKINETICS**

Transfer of drugs across biological membranes. Basic pharmacokinetic actions. Pharmacokinetic parameters. The pharmacokinetics of single and repeated intravascular and extravascular drug administration. Therapeutic drug monitoring.

### **/3/ GENERAL RULES OF THE DRUG PRESCRIPTION**

Elements of the drug prescription. Prescription of individually prepared and ready made preparations. Legislation of drug prescription. Work with various handbooks and databases (SÚKL database, Pharmindex, AISLP, etc.). Provisions and prescription of narcotic and psychotropic agents.

### **/4/ PRESCRIPTION OF READY MADE PREPARATIONS – practice. SOLID DRUG DOSAGE FORMS**

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

### **/5/ FLUID DRUG DOSAGE FORMS**

Prescription of selected drug forms (solutions for rubbing, compresses and irrigations, solutions and drops for oral administration).

### **/6/ SOFT AND MELTING DRUG DOSAGE FORMS, SPECIAL PRESCRIPTION OF INDIVIDUALLY PREPARED DRUGS USED IN STOMATOLOGY**

Prescription of selected drug forms (soft and melting drug dosage forms – ointments, creams, pastes, gels and other preparations for application to the skin and mucous membranes; mucoadhesive pastes, solutions, suspensions, gels, ointments, pastes used in stomatology).

### **/7/ PRESCRIPTION TEST (PRESCRIPTION OF INDIVIDUALLY PREPARED AND READY MADE PREPARATIONS + TRANSLATION TO LATIN)**

#### **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.

#### **/8/ NORADRENERGIC DRUGS - introduction**

Receptors of noradrenergic system, pharmacology of drugs activating and blocking noradrenergic system.

#### **/9/ MULTIPLE - CHOICE FINAL TEST**

#### **NORADRENERGIC DRUGS - completion**

Receptors of noradrenergic system, pharmacology of drugs activating and blocking noradrenergic system.

#### **/10/ CHOLINERGIC DRUGS**

Receptors of cholinergic system, pharmacology of drugs activating and blocking cholinergic system.

#### **CREDIT**