

## **Learning unit: Pharmacological propedeutics**

### **Impact of the learning unit:**

The first lecture and practical lesson describes the science of pharmacology, with pharmacological subdisciplines and the clinical relevance of pharmacology as a science. Basic pharmacological terminology is introduced and basic databases on drug information are presented to students. All these are necessary for the following pharmacological classes and self-study of students.

### **Relevant terms**

pharmacology

- pharmacodynamics

- pharmacokinetics

- molecular pharmacology

- experimental (preclinical) pharmacology

- clinical pharmacology

  - pharmacoepidemiology

  - pharmacoeconomics

  - pharmacogenetics/pharmacogenomics

  - pharmacovigilance

pharmacy

essential pharmacological terminology

- drug

- active substance

- medical preparation

- excipient/vehicle

- drug dosage form

names of drugs

- chemical name of drug

- pharmacopoeial name of drugs

- international nonproprietary name

- generic name

brand name

origin of drugs

natural

synthetic

semi-synthetic

recombinant

types of therapy

causal therapy

symptomatic therapy

substitution therapy

rational pharmacotherapy

drug information databases

Czech pharmacopoeia

SUKL database of drugs

EMA drug database

Pharmindex Breviř (or British National Formulary)

ATC drug classification

### **Learning outcomes**

Student is able to define pharmacology science and its subdisciplines and describes its clinical impact

Student knows how to use basic pharmacological terms and is oriented in the names of drugs and classification of drugs.

Student explains the basic concepts of pharmacotherapy and the rules for the rational use of drugs.

Student knows the drug databases and is able to find information on drugs from reliable on-line and printed sources.

### **Study literature**

Rang & Dale's Pharmacology, 8th edition, 2016, chapter 1, pp. 1-5

Study materials for courses aVLFA0721p and aVLFA0721c.

## **Exam questions**

*General pharmacology:* 2. Types of pharmacotherapy, rules of rational and safe pharmacotherapy.  
The question of drug misuse.