CONTENT OF THE SUBJECT

Subject:	**Pharmacology 2**		
Study	*General Medicine*	**Study Period:**	*Winter / Summer time*
Evaluation:	*Graduated*	**Subject Type:**	*Compulsory / other*
Content:	*2 h. lectures and 3 h. seminars / week*		*Total 70 hours*

Department: **Pharmacology UPJŠ FM**

Week	***Lectures*** https://portal.lf.upjs.sk/index-en.php	***Seminars***
1.	**Drugs used in treatment of heart diseases.** *- Antianginal drugs.* *- Drugs used to treat arrhythmias.*	**Drugs influencing CNS.** *- Revue of basic groups of drugs affecting the CNS.*
2.	**Drugs used to treat heart failure.** **Antihypertensive drugs.** *- ACE-I/ARBs.* *- Diuretics.* *- Beta-blockers.* *- Cardioglycosides.* *- Ca^{2+}-blockers.* *- Other drugs*	**Analgesics.** *- Morphine - like drugs.* *- Analgesics - antipyretics,*
3.	**Drugs used in disorders of haemostasis.** *- Antithrombotics.* *- Hemostatics.* **Antianaemic drugs.** *- Iron.* *- Vitamine B12.* *- Folic acid.*	**Non-steroidal antiinflammatory drugs.** *- Prostaglandine functions, COX-1, COX-2.* *- Classification of NSAIDs.* *- Selective COX-2 inhibitors.* *- Toxicity of NSAIDs.* **Antirheumatic drugs.** *- „Classical" antirheumatic drugs.* *- Biological therapy.*
4.	**Antidiabetics.** *- Insulins.* *- Oral hypoglycemic drugs.* *- Gastrointestinal hormones.* *- Other antidiabetic drugs.* **Drugs used to treat thyroid disorders.** *- Treatment of hyperthyreoidism.* *- Treatment of hypothyreoidism.*	**The drugs used in pharmacotherapy of respiratory and GIT disorders.** *- Drugs modulating tomach acidity.* *- Cytoprotective drugs.* *- Anti-H. pylori drugs.* *- Laxatives, antidiarrheals.* *- Antiasthmatic drugs.* *- Antitusives.* *- Expectorans.*
5.	**Steroidal hormones.** *- Glucocorticoids.* *- Mineralocorticoids.* *- Sex hormones.*	**Antianginal drugs. Antiarrhythmic drugs.** *- Antianginal drugs - nitrates, β-blockers, Ca^{2+} channel blockers.* *- Other antianginal drugs.* *- Basic groups of antiarrhythmic drugs.* **Control test.**
6.	**Basic principles of chemotherapy.** *- ATB classifications.* *- Basic terminology.* *- Mechanisms of action.* *- Mechanisms of resistance.* *- Side effects of ATB.* **β - lactame ATB.** *- Penicillins, cephalosporins.*	**Drugs used in the treatment of heart failure.** *- ACE inhibitors/AT1 blockers.* *- Diuretics.* *- β-blockers.* *- Cardioglycosides.* *- Neprilysine inhibitors.*

7.	**Other ATB.** *- Macrolides.* *- Linkozamides.* *- Tetracyclines.* *- Aminoglycosides.* *- Antistaphylococcal ATB.*	**Antihypertensive and diuretic drugs. Hypolipidemics.** *- Diuretics.* *- ACE inhibitors/AT1 blockers.* *- β-blockers,* *- Ca^{2+} channel blockers.* *- Other drugs.* *- Statins and other hypolipidemic drugs.*
8.	**Other chemotherapeutics.** *- Sulfonamides.* *- Quinolones.* *- Antituberculotic drugs*. **Immunomodulants.**	**Drugs affecting haemostasis, antianaemics.** *- Anticoagulants, antiaggregants, fibrinolytitics.* *- Antifibrinolytics, haemostatics affecting blood vessels.* *- Iron, folic cid, vit. B12.*
9.	**Other antimicrobial drugs.** *- Antifungal drugs.* *- Antiparasitic drugs.* *- Antiviral agents.* **Antihelmintics.**	**Drugs used in endocrine pharmacotherapy.** *- Glucocorticoids.* *- Mineralocorticoids.* *- Sex hormones.* *- Antidiabetics.* *- Drugs used to treat thyroid disorders.* **Control test.**
10.	**Basic principles of anticancer chemotherapy.** *- Theory of carcinogenesis.* *- Types of cancer treatment.* *- Classification of anticancer drugs.* *- Resistance.* *- Toxicity of anticancer drugs.*	**Drugs used in pharmacotherapy of infectious diseases. Penicillins, cephalosporins, tetracyclines.** *- Basic terminology, mechanisms of action.* *- Mechanisms of resistance, side effects of ATB.* *- Penicillins, cephalosporins, tetracyclines.*
11.	**Anticancer drugs.** *- Mechanism of action.* *- Classification of anticancer drugs.* *- Therapeutic indications.* *- Side effects of antineoplastics.* *- Monoclonal antibodies.* *- Tyrosin kinase inhibitors.*	**Other antimicrobial drugs.** *- Macrolides, linkozamides, aminoglycosides.* *- Antistaphylococcal ATB.* *- Sulfonamides.* *- Quinolones.* *- Antituberculotics.*
12.	**Drugs and pregnancy.** *- Drug effect on the fetus.* *- Factors influencing drug teratogenicity.* *- Mechanisms of teratogenic effect of drugs.* *- Examples of drugs with teratogenic potential.*	**The principles of cancer chemotherapy.** *- Classification of anticancer drugs.* *- Resistance.* *- Toxicity of anticancer drugs.* *- Mechanism of action.* *- Classification of anticancer drugs.* *- Monoclonal antibodies.* *- Tyrosin kinase inhibitors.* **Control test.**
13	**Clinically relevant drug interactions.** *- Drug-drug interactions.* *- Drug-food/beverage interactions.* *- Drug-disease interactions.*	**Clinically important drug interactions.** *- Drug-drug interactions.* *- Drug-food/beverage interactions.* *- Drug-disease interactions.*

14.	**Clinically relevant drug intoxications and their therapy.** *- General principles of intoxiction therapy.* *- Specific therapy odf drug overdose, antidotes.*	**Specific and non-specific therapy of intoxications.** *- General principles of intoxiction therapy.* *- Specific therapy odf drug overdose, antidotes.*