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Subject:	Pharmacology 2		
Study	<i>Dental Medicine</i>	Study Period:	<i>6. semester</i>
Evaluation:	<i>Exam</i>	Subject Type:	<i>Compulsory</i>
Content:	<i>2 h. lectures and 2 h. seminars/week</i>		<i>Total 56 hours</i>

Department: **Pharmacology UPJŠ FM**

Week	Lectures https://portal.lf.upjs.sk	Seminars
1.	Drugs used in treatment of heart diseases. Antianginal drugs. - Organic nitrates - Beta-blockers - Ca ²⁺ -blockers - Other drugs	Repetition Local anesthetics. - Mechanism of action, toxicity - Classification of local anesthetics Antipyretic analgesics, NSAIDs. - Pain - Mechanism of action, COX-1, COX-2 - Classes of NSAIDs, side effects
2.	Antihypertensive drugs. - Diuretics. - ACE-I/ARBs - Beta-blockers - Ca ²⁺ -blockers - Other drugs	Antianginal drugs. - Antianginal drugs - nitrates, β -blockers, Ca ²⁺ channel blockers - Other antianginal drugs
3.	Drugs used to treat heart failure. - ACE-I/ARBs - Diuretics - Beta-blockers - Cardiotoglycosides - Other drugs	Antihypertensive drugs. - Diuretics - ACE inhibitors/AT1 blockers - β -blockers - Ca ²⁺ channel blockers - Other drugs
4.	Drugs used to treat arrhythmias. Hypolipidemics. - Vaughan-Williams Classification - Other antiarrhythmics - Statins and other hypolipidemic drugs	Drugs used in the treatment of heart failure. - ACE inhibitors/AT1 blockers - Diuretics - β -blockers - Cardiotoglycosides - Neprilysin inhibitors
5.	Drugs used in disorders of haemostasis. - Antithrombotics - Hemostatics Antianaemic drugs. - Iron, vitamin B12, folic acid	Antiarrhythmic drugs. Hypolipidemic drugs. - Basic groups of antiarrhythmic drugs. - Statins and other hypolipidemic drugs
6.	Antidiabetics. - Insulins - Oral hypoglycemic drugs - Gastrointestinal hormones - Other antidiabetic drugs Drugs used to treat thyroid disorders. - Treatment of hyperthyreoidism - Treatment of hypothyreoidism	Drugs affecting haemostasis, antianaemics. - Anticoagulants, antiaggregants, fibrinolytics - Antifibrinolytics, haemostatics affecting blood vessels - Iron, folic cid, vit. B12
7.	Corticosteroids. - Glucocorticoids - Mineralocorticoids Sex hormones. - Estrogens and gestagens - Contraceptives	Control test. Drugs used in endocrine pharmacotherapy. - Antidiabetics - Drugs used to treat thyroid disorders

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	- Androgens	
8.	Drugs used to treat respiratory diseases - <i>Antiasthmatics</i> - <i>Antistussive drugs</i> - <i>Mucolytics and expectorants</i> Drugs used to treat GIT diseases. - <i>Antisecretory drugs, antacids</i> - <i>Cytoprotective drugs</i> - <i>Laxatives, antidiarrheal</i>	Drugs used in endocrine pharmacotherapy. - <i>Glucocorticoids</i> - <i>Mineralocorticoids</i> - <i>Sex hormones.</i>
9.	Basic principles of chemotherapy. β - lactam ATB. - <i>ATB classifications, basic terminology</i> - <i>Mechanisms of action</i> - <i>Mechanisms of resistance</i> - <i>Side effects of ATB</i> - <i>Penicillins, cephalosporins</i>	Drugs used in pharmacotherapy of respiratory and GIT disorders. - <i>Drugs modulating stomach acidity</i> - <i>Cytoprotective drugs</i> - <i>Anti-H. pylori drugs</i> - <i>Laxatives, antidiarrheals.</i> - <i>Antiasthmatic drugs</i> - <i>Antitussives, expectorants</i> Control test.
10.	Other ATB and chemotherapeutics. - <i>Macrolides</i> - <i>Linkozamides</i> - <i>Tetracyclines</i> - <i>Aminoglycosides</i> - <i>Antistaphylococcal ATB</i> - <i>Sulfonamides</i> - <i>Quinolones</i>	Drugs used in pharmacotherapy of infectious diseases. Penicillins, cephalosporins, tetracyclines. - <i>Basic terminology, mechanisms of action</i> - <i>Mechanisms of resistance, side effects of ATB</i> - <i>Penicillins, cephalosporins, tetracyclines</i>
11.	Other chemotherapeutics. - <i>Antituberculous drugs</i> - <i>Antifungal drugs</i> - <i>Antiparasitic drugs</i> - <i>Anthelmintics</i> Antibiotics used in dentistry.	Other antimicrobial drugs. - <i>Macrolides, linkosamides, aminoglycosides</i> - <i>Antistaphylococcal ATB</i> - <i>Sulfonamides</i> - <i>Quinolones</i>
12.	Basic principles of anticancer chemotherapy. - <i>Mechanism of action</i> - <i>Classification of anticancer drugs</i> - <i>Resistance</i> - <i>Toxicity of anticancer drugs</i> - <i>Therapeutic indications</i>	Other chemotherapeutics. - <i>Antituberculous drugs</i> - <i>Antifungal drugs</i> - <i>Antiparasitic drugs</i> - <i>Anthelminticscs</i> Antibiotics used in dentistry. Control test.
13	Clinically relevant drug intoxications and their therapy. - <i>General principles of intoxication therapy.</i> - <i>Specific therapy of drug overdose, antidotes</i>	The principles of cancer chemotherapy. - <i>Classification of anticancer drugs</i> - <i>Resistance, toxicity of anticancer drugs</i> - <i>Mechanism of action</i> - <i>Classification of anticancer drugs</i> - <i>Monoclonal antibodies</i> - <i>Tyrosin kinase inhibitors</i>

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14.	Clinically relevant drug interactions. <ul style="list-style-type: none">- <i>Drug-drug interactions</i>- <i>Drug-food/beverage interactions</i>- <i>Drug-disease interactions</i>	Clinically important drug interactions. Specific and non-specific therapy of intoxications.
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