

CONTENT OF THE SUBJECT

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

Department: **Pharmacology UPJŠ FM**

<b>Week</b>	<b>Lectures</b> <a href="https://portal.lf.upjs.sk/index-en.php">https://portal.lf.upjs.sk/index-en.php</a>	<b>Seminars</b>
<b>1.</b>	<p><b>Antidiabetics.</b></p> <ul style="list-style-type: none"> <li>- <i>Insulins.</i></li> <li>- <i>Oral hypoglycemic drugs.</i></li> <li>- <i>Gastrointestinal hormones.</i></li> <li>- <i>Other antidiabetic drugs.</i></li> </ul> <p><b>Drugs used to treat thyroid disorders.</b></p> <ul style="list-style-type: none"> <li>- <i>Treatment of hyperthyroidism.</i></li> <li>- <i>Treatment of hypothyroidism.</i></li> </ul>	<p><b>Pain-modulating drugs – repetition</b></p> <ul style="list-style-type: none"> <li>- <i>Opioid analgesics.</i></li> <li>- <i>Antipyretic analgesics</i></li> <li>- <i>Nonsteroidal anti-inflammatory drugs</i></li> <li>- <i>Local and general anesthetics</i></li> </ul>
<b>2.</b>	<p><b>Steroidal hormones.</b></p> <ul style="list-style-type: none"> <li>- <i>Glucocorticoids.</i></li> <li>- <i>Mineralocorticoids.</i></li> <li>- <i>Sex hormones.</i></li> </ul>	<p><b>The drugs used in pharmacotherapy of respiratory and GIT disorders.</b></p> <ul style="list-style-type: none"> <li>- <i>Drugs modulating stomach acidity.</i></li> <li>- <i>Cytoprotective drugs.</i></li> <li>- <i>Anti-H. pylori drugs.</i></li> <li>- <i>Laxatives, antidiarrheals.</i></li> <li>- <i>Antiasthmatic drugs.</i></li> <li>- <i>Antitussives.</i></li> <li>- <i>Expectorans.</i></li> </ul>
<b>3.</b>	<p><b>Basic principles of chemotherapy.</b></p> <ul style="list-style-type: none"> <li>- <i>ATB classifications.</i></li> <li>- <i>Basic terminology.</i></li> <li>- <i>Mechanisms of action.</i></li> <li>- <i>Mechanisms of resistance.</i></li> <li>- <i>Side effects of ATB.</i></li> </ul> <p><b>β - lactam ATB.</b></p> <ul style="list-style-type: none"> <li>- <i>Penicillins, cephalosporins.</i></li> </ul>	<p><b>Antianginal drugs. Antiarrhythmic drugs.</b></p> <ul style="list-style-type: none"> <li>- <i>Antianginal drugs - nitrates, β-blockers, Ca<sup>2+</sup> channel blockers.</i></li> <li>- <i>Other anti-anginal drugs.</i></li> <li>- <i>Basic groups of antiarrhythmic drugs.</i></li> </ul> <p><b>Control test.</b></p>
<b>4.</b>	<p><b>Other ATB.</b></p> <ul style="list-style-type: none"> <li>- <i>Macrolides.</i></li> <li>- <i>Linkozamides.</i></li> <li>- <i>Tetracyclines.</i></li> <li>- <i>Aminoglycosides.</i></li> <li>- <i>Antistaphylococcal ATB.</i></li> </ul>	<p><b>Drugs used in the treatment of heart failure.</b></p> <ul style="list-style-type: none"> <li>- <i>ACE inhibitors/AT1 blockers.</i></li> <li>- <i>Diuretics.</i></li> <li>- <i>β-blockers.</i></li> <li>- <i>Cardioglycosides.</i></li> <li>- <i>Nepriylisin inhibitors.</i></li> </ul>
<b>5.</b>	<p><b>Other chemotherapeutics.</b></p> <ul style="list-style-type: none"> <li>- <i>Sulfonamides.</i></li> <li>- <i>Quinolones.</i></li> <li>- <i>Antituberculosic drugs.</i></li> </ul>	<p><b>Antihypertensive and diuretic drugs. Hypolipidemics.</b></p> <ul style="list-style-type: none"> <li>- <i>Diuretics.</i></li> <li>- <i>ACE inhibitors/AT1 blockers.</i></li> <li>- <i>β-blockers,</i></li> <li>- <i>Ca<sup>2+</sup> channel blockers.</i></li> <li>- <i>Other drugs.</i></li> <li>- <i>Statins and other hypolipidemic drugs.</i></li> </ul>

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6.	<b>Antifungal and antiviral agents.</b>	<b>Drugs affecting haemostasis, antianaemics.</b> - Anticoagulants, antiaggregants, fibrinolytics. - Antifibrinolytics, haemostatics affecting blood vessels. - Iron, folic acid, vit. B12.
7.	<b>Antiparasitic and antihelmintic drugs. Immunopharmacology drugs.</b>	<b>Drugs used in endocrine pharmacotherapy.</b> - Glucocorticoids. - Mineralocorticoids. - Sex hormones. - Antidiabetics. - Drugs used to treat thyroid disorders. <b>Control test.</b>
8.	<b>Basic principles of anticancer chemotherapy.</b> - Theory of carcinogenesis. - Types of cancer treatment. - Classification of anticancer drugs. - Resistance. - Toxicity of anticancer drugs.	<b>Drugs used in the pharmacotherapy of infectious diseases. Penicillins, cephalosporins, tetracyclines.</b> - Basic terminology, mechanisms of action. - Mechanisms of resistance, side effects of ATB. - Penicillins, cephalosporins, tetracyclines.
9.	<b>Anticancer drugs.</b> - Mechanism of action. - Classification of anticancer drugs. - Therapeutic indications. - Side effects of antineoplastics. - Monoclonal antibodies. - Tyrosine kinase inhibitors.	<b>Other antimicrobial drugs.</b> - Macrolides, lincosamides, aminoglycosides. - Antistaphylococcal ATB. - Sulfonamides. - Quinolones. - Antituberculotics.
10.	<b>Drugs used to treat calcium disorders.</b> - Hypercalcemia - Hypocalcemia - Osteoporosis <b>Hepatoprotectives</b>	<b>Antiparasitic and antihelmintic drugs. Antifungal and antiviral agents.</b>
11.	<b>Clinically relevant drug interactions.</b> - Drug-drug interactions. - Drug-food/beverage interactions. - Drug-disease interactions.	<b>The principles of cancer chemotherapy.</b> - Classification of anticancer drugs. - Mechanism of action. - Toxicity of anticancer drugs. <b>Immunopharmacology drugs.</b>  <b>Control test.</b>
12.	<b>Clinically relevant drug intoxications and their therapy.</b> - General principles of intoxication therapy. - Specific therapy of drug overdose, antidotes.	<b>Clinically important drug interactions.</b> - Drug-drug interactions. - Drug-food/beverage interactions. - Drug-disease interactions.
13.	<b>Drug dependency</b> - Psychostimulants - Sedatives and hypnotics - Opioids, cocaine - Nicotine, alcohol - Hallucinogens	<b>Specific and non-specific therapy of intoxications.</b> - General principles of intoxication therapy. - Specific therapy of drug overdose, antidotes.

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<b>14.</b>	<b>Drugs and pregnancy.</b> <ul style="list-style-type: none"><li>- <i>Drug effect on the fetus.</i></li><li>- <i>Factors influencing drug teratogenicity.</i></li><li>- <i>Mechanisms of teratogenic effect of drugs.</i></li><li>- <i>Examples of drugs with teratogenic potential.</i></li></ul>	<b>Drug dependency</b> <ul style="list-style-type: none"><li>- <i>Psychostimulants</i></li><li>- <i>Sedatives and hypnotics</i></li><li>- <i>Opioids, cocaine</i></li><li>- <i>Nicotine, alcohol</i></li><li>- <i>Hallucinogens</i></li></ul>
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