

CONTENT OF THE SUBJECT

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| Subject: | Pathological Physiology 2 | | |
| Study | <i>General Medicine</i> | Study Period: | <i>Summer time</i> |
| Evaluation: | <i>Graduated (exam)</i> | Subject Type: | <i>Compulsory</i> |
| Content: | <i>3 h. lectures and 3 h. practical exercises / week</i> | | <i>Total 84 hours</i> |

Department of Pathological Physiology, UPJŠ FM

| Week | Lectures https://portal.lf.upjs.sk/index-en.php | Seminars |
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| 1. | Cardiovascular system I: Congenital and acquired valvular disorders Cardiovascular system II: Ischaemic heart disease | Tutorial: Introduction to cardiovascular system Seminar: Ischemic vascular disease; Atherosclerosis |
| 2. | Cardiovascular system III: Dysrhythmias – pathogenesis; genetics Cardiovascular system IV: Heart failure – systolic, diastolic | Tutorial: Coronary heart disease, Cardiomyopathies Seminar: Dysrhythmias; Basic ECG patterns |
| 3. | Cardiovascular system V: Hypertension Hematology I: Haemorrhagic diathesis; thrombophilia | Tutorial: Hypotension, Hypertension Seminar: Anaemic syndrome |
| 4. | Respiratory system I: Restrictive & obstructive diseases; Asthma Respiratory system II: Respiratory failure | Tutorial: Haematologic data, Coagulation disorders Seminar: Leukemias; lymphomas |
| 5. | Nephrology I: Glomerular & tubulointerstitial disorders Nephrology II: Kidney failure – acute, chronic (uremia) | Tutorial: Disorders of ventilation, diffusion & perfusion Seminar: Cystic fibrosis, lung edema Practical protocol: Cardio-respiratory evaluation |
| 6. | Nervous system I: Motor disorders; weakness, palsy Nervous system II: Somatosensory disorders | Tutorial: Glomerular & tubular disorders Seminar: Kidney stones; Tubulointerstitial dis., Pyelonephritis |
| 7. | Nervous system III: Vegetative nervous disorders Nervous system IV: Neurodegenerative disorders | Tutorial: Demyelination dis.; Alzheimer & Parkinson dis.. Credit test 1 |

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| 8. | Nervous system V: Higher NS disorders; Dementia Endocrine system I: Hypothalamic-hypophyseal disorders I | Tutorial: Neuropathies, Myopathies Seminar: Spinal cord sy.; Motor. dis, Sens. dis., Pain |
| 9. | Endocrine system II: Hypophyseal disorders II; Growth hormone disorders., SIADH, Diabetes insipidus, Prolactin | Tutorial: Cerebrovascular disease; Intracerebr. Haemorrh. Seminar: Sensory dis.; deafness, blindness Epilepsy Practical protocol: Audiogenic epilepsy |
| 10. | Endocrine system III: Supraren disorders Endocrine system IV: Thyroid disorders | Tutorial: Endocrine disorders; Gonadal dysfunction Seminar: Parathyroid diseases; Calcium metabolism |
| 11. | Diabetes mellitus I: Diabetes mellitus - etiopathogenesis Diabetes mellitus II: DM – manifestation, Insulin resistance | Tutorial: Diabetes mellitus pathophysiology; Metabolic syndrome Seminar: Acute & chronic complications of diabetes |
| 12. | Gastrointestinal tract I: Peptic ulcer diseases, Bowel disorders | Tutorial: Esophagus diseases; GIT symptomatology; maldigestion, malabsorption Seminar: Celiac disease; Jaundice Practical protocol: Experimental gastric ulcer |
| 13 | Gastrointestinal tract II: Liver failure; Pancreatic diseases | Seminar: Review – Liver disorders & pancreatic diseases Credit test 2 |
| 14. | Connective tissue: Osteoporosis, osteomalatia Degenerative disorders of joints; rheumatism | Final evaluation. Exams. Credits |