

## Schedule of the lectures – winter 2024

|     | Date    | Contents of the lecture                                                                                                                                                                                                                                                                   |
|-----|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | 16. 9.  | Introductory information I.<br>Basic nomenclature: autopsy, histological necroptic and bioptical examination, the importance of autopsies<br>Death and postmortal changes<br>Necrosis: types and appearance, causes and further evolution. Apoptosis, maceration (dr. Said)               |
| 2.  | 23. 9.  | Introductory information II.<br>Atrophy, hypertrophy, hyperplasia, metaplasia, dysplasia (doc. Křen)                                                                                                                                                                                      |
| 3.  | 30. 9.  | Hemodynamic disorders of perfusion (central and peripheral)<br>Shock, fluid loss and overload<br>Local disorders of circulation (infarction, embolism, edema), DIC, eclampsy (doc. Křen)                                                                                                  |
| 4.  | 7. 10.  | Inflammation (acute, chronic); gross and macroscopic appearance<br>Phagocytosis, cells engaged in inflammation<br>Chemical mediators of inflammation (prof. Hermanová)                                                                                                                    |
| 5.  | 14. 10. | Inflammation: types and their characteristics (superficial, deep, serous, fibrinous...)<br>Macroscopic & microscopic changes<br>Fever, sepsis, pyemia<br>Healing and reparation<br>Specific inflammation (tuberculosis, lues, lepra, sarkoidosis); granulomatous inflammation (doc. Křen) |
| 6.  | 21. 10. | Immune system and its function<br>Immune reactions, their classification and pathology<br>Autoimmune diseases<br>Rejection (dr. Žampachová)                                                                                                                                               |
| 7.  | 28. 10. | National Holiday                                                                                                                                                                                                                                                                          |
| 8.  | 4.11.   | Immunodeficiency diseases (inborn and acquired)<br>HIV. Infections in immunocompromised patients<br>Infectious diseases (dr. Žampachová)                                                                                                                                                  |
| 9.  | 11.11.  | General oncology; Benign and malignant tumors and their classification<br>Cancerogenesis (prof. Hermanová)<br>Epithelial tumors, germ cell tumours, mesothelioma (prof. Hermanová)                                                                                                        |
| 10. | 18.11.  | Leukemia<br>Lymphomas (WHO classification) (prof. Hermanová)                                                                                                                                                                                                                              |
| 11. | 25.11.  | Mesenchymal tumors<br>Tumors of peripheral nervous system<br>Pigmented skin lesions<br>Neuroectodermal tumors of CNS (doc. Křen)                                                                                                                                                          |
| 12. | 2. 12.  | The respiratory system (prof. Hermanová)                                                                                                                                                                                                                                                  |
| 13. | 9. 12.  | Cardiovascular pathology I: blood vessels (degenerative changes, vasculitis), myocardial biopsy (prof. Hermanová)                                                                                                                                                                         |
| 14. | 16. 12. | Cardiovascular pathology II: congenital heart disease, inflammatory heart disease, ischemic heart disease, cardiomyopathy (doc. Křen)                                                                                                                                                     |

**Lecture hall St. Anna´s Hospital**