

Schedule of the lectures – winter 2017

	Date	Contents of the lecture
1.	18. 9.	Introductory information Basic nomenclature: autopsy, histological necroptic and bioptical examination, the importance of autopsies Death and postmortal changes Necrosis: types and appearance, causes and further evolution. Apoptosis, maceration (doc. Křen)
2.	25.9.	Atrophy, hypertrophy, hyperplasia, metaplasia (doc. Křen)
3.	2.10.	Inflammation (acute, chronic); gross and macroscopic appearance Phagocytosis, cells engaged in inflammation Chemical mediators of inflammation (prof. Hermanová)
4.	9. 10.	Inflammation: types and their characteristics (superficial, deep, serous, fibrinous...) Macroscopic & microscopic changes Fever, sepsis, pyemia Healing and reparation Specific inflammation (tuberculosis, lues, lepra, sarkoidosis); granulomatous inflammation (doc. Křen)
5.	16.10.	Immune system and its function Immune reactions, their classification and pathology Autoimmune diseases Rejection (dr. Žampachová)
6.	23.10.	Immunodeficiency diseases (inborn and acquired) HIV Infections in immunocompromised patients Infectious diseases (dr. Žampachová)
7.	30.10.	Hemodynamic disorders of perfusion (central and peripheral) Shock, fluid loss and overload Local disorders of circulation (infarction, embolism, edema), DIC, eclampsy (doc. Křen)
8.	6.11.	General oncology; Benign and malignant tumors and their classification Cancerogenesis Epithelial tumors, choriocarcinoma, mesothelioma (prof. Hermanová)
9.	13.11.	Mesenchymal tumors Tumors of peripheral nervous system Pigmented skin lesions Neuroectodermal tumors of CNS (doc. Křen)
10.	20.11.	Leukemia Lymphomas (WHO classification) (prof. Hermanová)
11.	27.11.	Cardiovascular pathology: congenital heart disease, inflammatory heart disease, ischemic heart disease, cardiomyopathy (doc. Křen)
12.	4.12.	Cardiovascular pathology: blood vessels (degenerative changes, vasculitis), myocardial biopsy (prof. Hermanová)
13.	11.12.	The respiratory system (prof. Hermanová)
14.	18.12.	Autopsy, biopsy Tissue fixation, sampling and processing Frozen sections Light, fluorescent, electron microscopy Cytology (smears, fine needle aspirations)

		Routine and special staining, histochemistry, immunohistochemistry Molecular biology techniques (flow cytometry, in situ hybridization) (dr. Sokol)
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