

WS WEEK	Lecture		Seminary 15:45-17:00		PRACTICAL CLASSES		Other	
					Microscopy training room 12:35-15:30	Autopsy training room 12:35-15:30		
1 29. 9. - 5. 10.	P1	Introduction to the human pathology. History, anatomical pathology as a specialty, organisation. General principles of diseases.	Prof. MUDr. Josef Zámečník, Ph.D. doc. Vira Tovazhnianska, M.D., Ph.D. MUDr. Jan Ballo, Ph.D.	S1	Methods of diagnostic pathology 1. Organisation of biopsic service – Types of samples and biopsies. Cytology. Peroperative biopsies. Autopsy.	Introduction and organisation of the courses. Biohazard and personal protection. Excursion. doc. Vira Tovazhnianska, M.D., Ph.D.		E-learning and self-study of metods (supplementary videos)
	P2	Cell injury and adaptation. Cell death, atrophy, hypertrophy, hyperplasia, metaplasia.	MUDr. Jan Ballo, Ph.D.					
2 6. 10. - 12. 10.	P3	Metabolic disorders 1 Intracellular accumulation of metabolites I.	MUDr. Ludvík Kalpar	S2	Methods of diagnostic pathology 2. Histological stainings. Microscopy (light and electron), enzymatic histochemistry.	RECAP - Cell injury and adaptation - cell death - atrophy - hypertrophy and hyperplasia - metaplasia	NEW - Disorders of the vascular flow 3 Local disorders of the vascular flow - thrombosis, embolism, infarction. Autopsy procedure Narrated video.	
	P4	Metabolic disorders 2 Intracellular accumulation of metabolites II. Dystrophy of extracellular matrix.	MUDr. Miroslav Kobilíček					
3 13. 10. - 19. 10.	P5	Metabolic disorders 3 Amyloidosis. Mitochondrial diseases. Calcification.	MUDr. Miroslav Kobilíček	S3	Methods of diagnostic pathology 3. Immunohistochemistry and in situ hybridization.	Prerequisites: P2 doc. Vira Tovazhnianska, M.D., Ph.D.	MUDr. Daniela Hamalová	
	P6	Disorders of the vascular flow 1 General disorders of the vascular flow.	doc. Vira Tovazhnianska, M.D., Ph.D.					
4 20. 10. - 26. 10.	P7	Disorders of the vascular flow 2 Disorders of the coagulation of the blood.	doc. Vira Tovazhnianska, M.D., Ph.D.	S4	Methods of diagnostic pathology 4. Molecular pathology.	RECAP - Metabolic disorders - intracellular accumulation of metabolites (lipids, proteins, saccharides) - lysosomal storage diseases - amyloidosis	NEW - Metabolic disorders 2 Pathology of pigments. Gamified practice Cell injury and adaptation. Disorders of the vascular flow. Metabolic disorders.	
	P8	Inflammation 1 Causes, pathogenesis and manifestation of inflammation.	MUDr. Jan Ballo, Ph.D.					
5 27. 10. - 2. 11. (Or 28.10)	P9	Inflammation 2 Non-specific inflammation.	doc. Vira Tovazhnianska, M.D., Ph.D.	S5	Healing (regeneration and reparation) and fibrosis	Prerequisites: P3-5 doc. Vira Tovazhnianska, M.D., Ph.D.	MUDr. Linda Čapková, Ph.D.	
	P10	Inflammation 3 Specific (granulomatous) inflammation - TBC.	MUDr. Jan Ballo, Ph.D.					
6 3. 11. - 9. 11.	P11	General oncology 1 Definition, tumor growth, benign/malignant, spread, clinical manifestation.	doc. Vira Tovazhnianska, M.D., Ph.D.	S6	General oncology 7 - classification of tumors Epithelial tumors. Neuroendocrine tumors.	RECAP - Inflammation - non-specific inflammation - classification - granuloma Prerequisites: P8-10, S5 doc. Vira Tovazhnianska, M.D., Ph.D.	NEW - Inflammation 3 Sarcoidosis, syphilis, granulomatous-purulent inflammation. Autopsy Autopsy / narrated video / autopsy case reports.	
	P12	General oncology 2 Diagnostics, etiology and epidemiology of neoplasms.	Prof. MUDr. Josef Zámečník, Ph.D.					
7 10. 11. - 16. 11.	P13	General oncology 3 Predispositions and precanceroses.	doc. Vira Tovazhnianska, M.D., Ph.D.	S7	General oncology 8 - classification of tumors Germinal tumors. Neuroectodermal tumors.	MUDr. Filip Kulla		
	P14	General oncology 4 Molecular cancerogenesis.	Prof. MUDr. Josef Zámečník, Ph.D.					
8 17. 11. - 23. 11. (Po 17.11.)	P15	General oncology 5 Predictive pathology and targeted therapy.	MUDr. Linda Čapková, Ph.D.	S8	Other causes of human diseases Malformations, infectious, genetic and environmental causes of diseases.	RECAP - General oncology - morphology of tumors Prerequisites: P11-16, S6-7	NEW - General oncology 9 Pseudotumors and cysts. Gamified practice Inflammation. General oncology.	
	P16	General oncology 6 Mesenchymal tumors.	doc. Vira Tovazhnianska, M.D., Ph.D.					
9 24. 11. - 30. 11.	P17	Immunopathology and pathology of transplantation	MUDr. Jan Ballo, Ph.D.	S9	Cardiovascular pathology 3 Malformations of the heart.	doc. Vira Tovazhnianska, M.D., Ph.D.	MUDr. Martin Štanek	
	P18	Cardiovascular pathology 1 Valvular heart disease.	doc. Vira Tovazhnianska, M.D., Ph.D.					
10 1. 12. - 7. 12.	P19	Cardiovascular pathology 2 Coronary artery disease.	doc. Vira Tovazhnianska, M.D., Ph.D.	S10	Cardiovascular pathology 5 Myocarditis. Cardiomyopathy.	RECAP - Cardiovascular pathology - ischemic heart disease - endocarditis - myocarditis - cardiomyopathy - atherosclerosis - vasculitis Prerequisites: P18-20, S9-10 doc. Vira Tovazhnianska, M.D., Ph.D.	NEW - Cardiovascular pathology 4 Pathology of the pericardial sac and tumors of the heart. Autopsy Autopsy / narrated video / autopsy case reports.	
	P20	Cardiovascular pathology 4 Pathology of the vessels.	doc. Vira Tovazhnianska, M.D., Ph.D.					
11 8. 12. - 14. 12.	P21	Pathology of the lungs 1 Obstructive and restrictive lung diseases.	MUDr. Jan Ballo, Ph.D.	S11	Diseases of the pleura, mediastinum and thymus	doc. Vira Tovazhnianska, M.D., Ph.D.	MUDr. Miroslav Kobilíček	
	P22	Pathology of the lungs 2 Inflammation of the lungs.	MUDr. Jan Ballo, Ph.D.					
12 15. 12. - 21. 12.	P23	Pathology of the lungs 3 Lung tumors.	MUDr. Linda Čapková, Ph.D.	S12	Pathology of the lungs 4 Malformations of the airways, vascular disorders of the lungs, atelectasis and collapse of the lungs.	RECAP - Pathology of the ENT, lungs and mediastinum - diseases of the upper respiratory tract - inflammation of the lungs - lung tumors Prerequisites: P21-24, S11-12 doc. Vira Tovazhnianska, M.D., Ph.D.	NEW - Pathology of the lungs 4 Pneumoconioses. Gamified practice Cardiovascular pathology. Pathology of the lungs.	
	P24	Ear-nose-and-throat pathology	MUDr. Marek Grega					
13 5. 1. - 11. 1.	P25	Hematopathology 1 Diseases of the bone marrow I.	MUDr. Daniela Hamalová	S13	Hematopathology 3 Lymphadenitis.	MUDr. Jaromír Házek		
	P26	Hematopathology 2 Diseases of the bone marrow II.	MUDr. Daniela Hamalová					
14 12. 1. - 18. 1.	P27	Hematopathology 4 Non-Hodgkin's lymphomas (NHL).	MUDr. Ludvík Kalpar	S14	Hematopathology 6 Hodgkin's lymphoma. Histiocytosis.	RECAP - Hematopathology - diseases of the bone marrow (myelodysplastic syndrome, myeloproliferative diseases, leukemia) - lymphadenitis - lymphomas	NEW - Hematopathology 5 Plasma cell myeloma. Splenomegaly. Autopsy Autopsy / narrated video / autopsy case reports. MUDr. Ludvík Kalpar	credit credit exam
	P28	Hematopathology 5 Anemias.	MUDr. Ludvík Kalpar					

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1 23. 2. - 1. 3.	P29	Pathology of the GIT 1 Diseases of the oral cavity, including teeth and salivary glands.	MUDr. Jan Soukup	S15 Pathology of the GIT 3 Inflammation of the small and large intestine (infectious and IBD).	doc. Vira Tovazhnianska, M.D., Ph.D.	Prerequisites: P25-28, S13-14 doc. Vira Tovazhnianska, M.D., Ph.D.	NEW - Hematopathology 5 Plasma cell myeloma. Splenomegaly. Autopsy Autopsy / narrated video / autopsy case reports. Use the linked folder.	
	P30	Pathology of the GIT 2 Pathology of the esophagus and stomach.	doc. Vira Tovazhnianska, M.D., Ph.D.					
2 2. 3. - 8. 3.	P31	Pathology of the GIT 4 Polyps and tumors of the small and large intestine, including molecular pathology.	doc. Vira Tovazhnianska, M.D., Ph.D.	S16 Pathology of the GIT 5 Malabsorption syndrome.	doc. Vira Tovazhnianska, M.D., Ph.D.	CLINICAL WEEK (LABORATORIES) goal: prepare a presentation for 5 minutes from 2 labs NO AUTOPSY OR KAHOOT		
	P32	Pathology of the liver 1 Inflammation, metabolic and vascular disorders.	doc. Vira Tovazhnianska, M.D., Ph.D.					
3 9. 3. - 15. 3.	P33	Pathology of the liver 2 Cirrhosis. Liver tumors.	doc. Vira Tovazhnianska, M.D., Ph.D.	S17 Pathology of the GIT 6 Pathology of the peritoneum including hernias. Ileus.	doc. Vira Tovazhnianska, M.D., Ph.D.	RECAP - Pathology of the GIT - teeth and salivary glands - esophagus, stomach and intestines Prerequisites: P29-31, S15 doc. Vira Tovazhnianska, M.D., Ph.D.	NEW - Pathology of the GIT 4 Appendicitis. Diverticulosis, diverticulitis. doc. Vira Tovazhnianska, M.D., Ph.D.	KAHOOT AND NEWS FOR BOTH GROUPS
	P34	Pathology of the exocrine pancreas	MUDr. Miroslav Kobilček					
4 16. 3. - 22. 3.	P35	Nephropathology 1 Manifestation of renal diseases. Vascular disorders of the kidneys.	MUDr. Jaromír Háček	S18 Uropathology 1 Malformations of the urinary system, penis and scrotum.	doc. Vira Tovazhnianska, M.D., Ph.D.	CLINICAL WEEK (LABORATORIES) presentations NO AUTOPSY OR KAHOOT		
	P36	Nephropathology 2 Disorders of the glomeruli.	MUDr. Jaromír Háček					
5 23. 3. - 29. 3.	P37	Nephropathology 3 TIN. Kidney tumors.	doc. Vira Tovazhnianska, M.D., Ph.D.	S19 Gynecologic pathology 1 Pathology of the breast, including predictive pathology.	doc. Vira Tovazhnianska, M.D., Ph.D.	RECAP - Pathology of the liver and pancreas - pathology of liver and pancreas Prerequisites: P32-34 doc. Vira Tovazhnianska, M.D., Ph.D.	NEW - Pathology of the biliary tract Diseases of the gallbladder. Diseases of the extrahepatic biliary ducts. doc. Vira Tovazhnianska, M.D., Ph.D.	KAHOOT AND NEWS FOR BOTH GROUPS
	P38	Uropathology 2 Pathology of the urinary collecting system.	doc. Vira Tovazhnianska, M.D., Ph.D.					
6 30. 3. - 5. 4. (Pa 18. 4.)	P39	Uropathology 2 Diseases of the prostate and testicles.	doc. Vira Tovazhnianska, M.D., Ph.D.	S20 Gynecologic pathology 2 Pathology of pregnancy.	MUDr. Vojtěch Omoradský	RECAP - Nephropathology - nephrotic syndrome - nephritic syndrome - renal vasculitis - arterial hypertension and kidney damage - TIN - kidney tumors Prerequisites: P35-37 doc. Vira Tovazhnianska, M.D., Ph.D.	RECAP - Uropathology - disorders of the urinary flow - urogenital inflammation - urogenital tumors Prerequisites: P38-39, S18 MUDr. Filip Kuka	
	P40	Gynecologic pathology 3 Pathology of the vulva, vagina and uterus.	prim. MUDr. Petr Škapa, Ph.D.					
7 6. 4. - 12. 4. (Pa 6. 4.)	P41	Gynecologic pathology 4 Pathology of the Fallopian tubes and ovaries.	prim. MUDr. Petr Škapa, Ph.D.	S21 Endocrinopathology 1 Diseases of the hypophysis and adrenal glands.	MUDr. Daniela Hamalová	RECAP - Gynecologic pathology - diseases of the vulva - diseases of the vagina - diseases of the uterine cervix - diseases of the uterine body - diseases of the Fallopian tubes - diseases of the ovaries Prerequisites: P40-41 doc. Vira Tovazhnianska, M.D., Ph.D.	RECAP - Pathology of the breast - non-tumorous lesions - benign tumors of the breast - carcinoma of the breast Prerequisites: S19 MUDr. Jan Soukup	
	P42	Perinatal pathology	doc. Vira Tovazhnianska, M.D., Ph.D.					
8 13. 4. - 19. 4.	P43	Endocrinopathology 2 Diabetes mellitus.	MUDr. Miroslav Kobilček	S22 Pathology of the bones and joints 1 Osteoporosis, osteonecrosis and metabolic osteopathy.	doc. Vira Tovazhnianska, M.D., Ph.D.	RECAP - Endocrinopathology - diseases of the hypophysis - diseases of the adrenal glands - diseases of the thyroid gland - diseases of the parathyroid glands Prerequisites: P43-44, S21 doc. Vira Tovazhnianska, M.D., Ph.D.	RECAP - Pathology of the bones and joints - non-tumorous bone lesions - bone tumours - joint diseases Prerequisites: P45-46, S22 MUDr. Miroslav Kobilček	
	P44	Endocrinopathology 3 Diseases of the thyroid and parathyroid glands.	MUDr. Miroslav Kobilček					
9 20. 4. - 26. 4.	P45	Pathology of the bones and joints 2 Inflammation (osteomyelitis, TBC, Paget's disease) and bone tumors.	MUDr. Jan Balík, Ph.D.	S23 Dermatopathology 1 Inflammation of the skin.	doc. Vira Tovazhnianska, M.D., Ph.D.	RECAP - Dermatopathology - inflammation of the skin - skin tumors Prerequisites: S23-24 doc. Vira Tovazhnianska, M.D., Ph.D.	RECAP - Neurotopathology - general neuropathology - vascular disorders of the brain - brain tumors Prerequisites: P48-51, S25 Mudr. Martin Stanek	EXAM macroscopy microscopy lab. methods
	P46	Pathology of the bones and joints 2 Joint diseases.	MUDr. Jan Balík, Ph.D.					
10 27. 4. - 3. 5. (Pa 1. 5.)	P47	Pathology of neoplasms in childhood and adolescence	MUDr. Jaromír Háček	S24 Dermatopathology 2 Skin tumors.	MUDr. Jan Balík, Ph.D.	RECAP - Neurotopathology - diseases of the hypophysis - diseases of the adrenal glands - diseases of the thyroid gland - diseases of the parathyroid glands Prerequisites: P43-44, S21 doc. Vira Tovazhnianska, M.D., Ph.D.	RECAP - Pathology of the bones and joints - non-tumorous bone lesions - bone tumours - joint diseases Prerequisites: P45-46, S22 MUDr. Miroslav Kobilček	
	P48	Neuropathology 1 General neuropathology, malformations, stroke.	Prof. MUDr. Josef Zámečník, Ph.D.					
11 4. 5. - 10. 5. (Pa 8. 5.)	P49	Neuropathology 2 Neuroinfections.	Prof. MUDr. Josef Zámečník, Ph.D.	S25 Neuropathology 3 Tumors of CNS.	doc. Vira Tovazhnianska, M.D., Ph.D.	RECAP - Pathology of infectious diseases 1 Mycoses and parasitic infections. doc. Vira Tovazhnianska, M.D., Ph.D.	RECAP - Pathology of infectious diseases 2 Bacterial infections I. doc. Vira Tovazhnianska, M.D., Ph.D.	
	P50	Neuropathology 3 Prionoses. Demyelination.	doc. Vira Tovazhnianska, M.D., Ph.D.					
12 11. 5. - 17. 5. (RD 51. 5.)	P51	Neuropathology 4 Neurodegenerative diseases.	doc. Vira Tovazhnianska, M.D., Ph.D.	S26 Pathology of infectious diseases 1 Mycoses and parasitic infections.	doc. Vira Tovazhnianska, M.D., Ph.D.	RECAP - Pathology of infectious diseases 3 Bacterial infections II. doc. Vira Tovazhnianska, M.D., Ph.D.	RECAP - Pathology of infectious diseases 4 Viral infections I. doc. Vira Tovazhnianska, M.D., Ph.D.	
	P52	Pathology of infectious diseases 2 Bacterial infections I.	doc. Vira Tovazhnianska, M.D., Ph.D.					
13 18. 5. - 24. 5.	P53	Pathology of infectious diseases 3 Bacterial infections II.	doc. Vira Tovazhnianska, M.D., Ph.D.	S27 The future of pathology NGS, DNA methylation profiling, liquid biopsies, AI, Raman histology...	Prof. MUDr. Josef Zámečník, Ph.D. MUDr. Miroslav Kobilček	RECAP - Pathology of infectious diseases 5 Viral infections II. doc. Vira Tovazhnianska, M.D., Ph.D.	RECAP - Neuromuscular pathology doc. Vira Tovazhnianska, M.D., Ph.D.	
	P54	Pathology of infectious diseases 4 Viral infections I.	doc. Vira Tovazhnianska, M.D., Ph.D.					
14 25. 5. - 31. 5.	P55	Pathology of infectious diseases 5 Viral infections II.	doc. Vira Tovazhnianska, M.D., Ph.D.	S28	DISCUSSION - Q&A 12:35 - Department of Pathology and Molecular Medicine prof. Zámečník, Dr. Balík, doc. Tovazhnianska	credit test / credit exam		
	P56	Neuromuscular pathology	doc. Vira Tovazhnianska, M.D., Ph.D.					