

WS WEEK	Lecture		Seminary 15:45-17:00		PRACTICAL CLASSES		AUTOPSY	E-learning and study hour	
					RECAP (Kahoot!) 12:35-14:05	NEW 14:20-15:30			
1 30. 9. - 6. 10.	P1	<b>Introduction to the human pathology.</b> History, anatomical pathology as a specialty, organization. General principles of diseases.	Prof. MUDr. Josef Zámečník, Ph.D. doc. Vira Tovazhnianska, M.D., Ph.D. MUDr. Jan Ballo, Ph.D.	S1	<b>Methods of diagnostic pathology 1.</b> Organization of biopsic service – types of samples and biopsies. Cytology. Peroperative biopsies. Autopsy.	Introduction and organisation of the courses. Biohazard and personal protection. Excursion.		x	methods (supplementary videos)
	P2	<b>Cell injury and adaptation.</b> Cell death, atrophy, hypertrophy, hyperplasia, metaplasia.	MUDr. Jan Ballo, Ph.D.			doc. Vira Tovazhnianska, M.D., Ph.D.			
2 7. 10. - 13. 10.	P3	<b>Metabolic disorders 1</b> Intracellular accumulation of metabolites I.	Prof. MUDr. Josef Zámečník, Ph.D.	S2	<b>Methods of diagnostic pathology 2.</b> Histological stainings. Microscopy (light and electron), enzymatic histochemistry.	RECAP - Cell injury and adaptation - cell death - atrophy - hypertrophy and hyperplasia - metaplasia		Topic: death cadaverous changes types of autopsies	
	P4	<b>Metabolic disorders 2</b> Intracellular accumulation of metabolites II. Dystrophy of extracellular matrix.	MUDr. Miroslav Kobilíček			NEW - Disorders of the vascular flow 2 Local disorders of the vascular flow - thrombosis, embolism, infarction.			
3 14. 10. - 20. 10.	P5	<b>Metabolic disorders 3</b> Amyloidosis. Mitochondrial diseases. Calcification.	MUDr. Miroslav Kobilíček	S3	<b>Methods of diagnostic pathology 3.</b> Immunohistochemistry and in situ hybridization.	Prerequisites: P2 doc. Vira Tovazhnianska, M.D., Ph.D.		MUDr. Zora Jenková	
	P6	<b>Disorders of the vascular flow 1</b> General disorders of the vascular flow.	doc. Vira Tovazhnianska, M.D., Ph.D.			doc. Vira Tovazhnianska, M.D., Ph.D.			
4 21. 10. - 27. 10.	P7	<b>Disorders of the vascular flow 2</b> Disorders of the coagulation of the blood.	doc. Vira Tovazhnianska, M.D., Ph.D.	S4	<b>Methods of diagnostic pathology 4.</b> Molecular pathology.	RECAP - Metabolic disorders - intracellular accumulation of metabolites (lipids, proteins, saccharides) - lysosomal storage diseases - amyloidosis		Topic: Icterus	
	P8	<b>Inflammation 1</b> Causes, pathogenesis and manifestation of inflammation.	Prof. MUDr. Roman Kodet, CSc.			NEW - Metabolic disorders 2 Pathology of pigments.			
5 28. 10. - 3. 11. (Po 28.10)	P9	<b>Inflammation 2</b> Non-specific inflammation.	Prof. MUDr. Roman Kodet, CSc.	S5	<b>Healing (regeneration and reparation) and fibrosis</b>	Prerequisites: P3-5 doc. Vira Tovazhnianska, M.D., Ph.D.		MUDr. Linda Čapková, Ph.D.	
	P10	<b>Inflammation 3</b> Specific (granulomatous) inflammation - TBC.	Prof. MUDr. Roman Kodet, CSc.			doc. Vira Tovazhnianska, M.D., Ph.D.			
6 4. 11. - 10. 11.	P11	<b>General oncology 1</b> Definition, tumor growth, benign/malignant, spread, clinical manifestation.	Prof. MUDr. Roman Kodet, CSc.	S6	<b>General oncology 7 - classification of tumors</b> Epithelial tumors. Neuroendocrine tumors.	RECAP - Inflammation - non-specific inflammation - classification - granuloma		Topic: Hemorrhage, hyperemia	
	P12	<b>General oncology 2</b> Diagnostics, etiology and epidemiology of neoplasms. Predispositions and precanceroses.	Prof. MUDr. Roman Kodet, CSc.			Prerequisites: P8-10, S5 doc. Vira Tovazhnianska, M.D., Ph.D.			
7 11. 11. - 17. 11. (Ne 17.11)	P13	<b>General oncology 3</b> Molecular cancerogenesis I.	Prof. MUDr. Roman Kodet, CSc.	S7	<b>General oncology 8 - classification of tumors</b> Germinal tumors. Neuroectodermal tumors.	doc. Vira Tovazhnianska, M.D., Ph.D.		MUDr. Daniela Hamalová	
	P14	<b>General oncology 4</b> Molecular cancerogenesis II.	Prof. MUDr. Roman Kodet, CSc.			doc. Vira Tovazhnianska, M.D., Ph.D.			
8 18. 11. - 24. 11.	P15	<b>General oncology 5</b> Predictive pathology and targeted therapy.	Prof. MUDr. Roman Kodet, CSc.	S8	<b>Other causes of human diseases</b> Malformations, infectious, genetic and environmental causes of diseases.	RECAP - General oncology - morphology of tumors		Topic: Hyperhydration (edema) and dehydration	
	P16	<b>General oncology 6</b> Mesenchymal tumors.	doc. Vira Tovazhnianska, M.D., Ph.D.			Prerequisites: P11-16, S6-7 doc. Vira Tovazhnianska, M.D., Ph.D.			
9 25. 11. - 1. 12.	P17	<b>Immunopathology and pathology of transplantation</b>	MUDr. Jan Ballo, Ph.D.	S9	<b>Cardiovascular pathology 3</b> Malformations of the heart.	NEW - General oncology 9 Pseudotumors and cysts.		prim. MUDr. Petr Škapa, Ph.D.	
	P18	<b>Cardiovascular pathology 1</b> Valvular heart disease.	doc. Vira Tovazhnianska, M.D., Ph.D.			doc. Vira Tovazhnianska, M.D., Ph.D.			
10 2. 12. - 8. 12.	P19	<b>Cardiovascular pathology 2</b> Coronary artery disease.	doc. Vira Tovazhnianska, M.D., Ph.D.	S10	<b>Cardiovascular pathology 5</b> Myocarditis. Cardiomyopathy.	RECAP - Cardiovascular pathology - ischemic heart disease - endocarditis - myocarditis - cardiomyopathy - atherosclerosis - vasculitis		Special interest: Cardiovascular pathology	
	P20	<b>Cardiovascular pathology 4</b> Pathology of the vessels.	doc. Vira Tovazhnianska, M.D., Ph.D.			Prerequisites: P18-20, S9-10 doc. Vira Tovazhnianska, M.D., Ph.D.			
11 9. 12. - 15. 12.	P21	<b>Pathology of the lungs 1</b> Obstructive and restrictive lung diseases.	MUDr. Jan Ballo, Ph.D.	S11	<b>Diseases of the pleura, mediastinum and thymus</b>	NEW - Cardiovascular pathology 4 Pathology of the pericardial sac and tumors of the heart.		MUDr. Miroslav Kobilíček	
	P22	<b>Pathology of the lungs 2</b> Inflammation of the lungs.	MUDr. Jan Ballo, Ph.D.			doc. Vira Tovazhnianska, M.D., Ph.D.			
12 16. 12. - 22. 12.	P23	<b>Pathology of the lungs 3</b> Lung tumors.	MUDr. Linda Čapková, Ph.D.	S12	<b>Pathology of the lungs 4</b> 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		Special interest: Lungs	
	P24	<b>Ear-nose-and-throat pathology</b>	MUDr. Marek Grega			Prerequisites: P21-24, S11-12 doc. Vira Tovazhnianska, M.D., Ph.D.			
13 6. 1. - 12. 1.	P25	<b>Hematopathology 1</b> Diseases of the bone marrow I.	Prof. MUDr. Roman Kodet, CSc.	S13	<b>Hematopathology 3</b> Lymphadenitis.	NEW - Pathology of the lungs 4 Pneumoconioses.		MUDr. Jaromír Házek	
	P26	<b>Hematopathology 2</b> Diseases of the bone marrow II.	Prof. MUDr. Roman Kodet, CSc.			doc. Vira Tovazhnianska, M.D., Ph.D.			
14 13. 1. - 19. 1.	P27	<b>Hematopathology 4</b> Non-Hodgkin's lymphomas (NHL).	Prof. MUDr. Roman Kodet, CSc.	S14	<b>Hematopathology 6</b> Hodgkin's lymphoma. Histiocytosis.	RECAP - Hematopathology - diseases of the bone marrow (myelodysplastic syndrome, myeloproliferative diseases, leukemia) - lymphadenitis - lymphomas		Special interest: Lymph nodes, spleen	
	P28	<b>Hematopathology 5</b> Anemias.	doc. Vira Tovazhnianska, M.D., Ph.D.			NEW - Hematopathology 5 Plasma cell myeloma. Splenomegaly. MUDr. Ludvík Kolář			

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					RECAP (Kahoot!) 12:35-14:05	NEW 14:20-15:30			
1 24.2.- 2.3.	P29	<b>Pathology of the GIT 1</b> Diseases of the oral cavity, including teeth and salivary glands.	MUDr. Jan Soukup	S15	<b>Pathology of the GIT 3</b> Inflammation of the small and large intestine (infectious and IBD).	doc. Vira Tovazhnianska, M.D., Ph.D.	<u>Prerequisites:</u> P25-28, S13-14	Special interest:  <b>Lymph nodes, spleen</b>	
	P30	<b>Pathology of the liver 2</b> Pathology of the esophagus and stomach.	doc. Vira Tovazhnianska, M.D., Ph.D.						doc. Vira Tovazhnianska, M.D., Ph.D.
2 3.3.- 9.3.	P31	<b>Pathology of the GIT 4</b> Polyps and tumors of the small and large intestine, including molecular pathology.	doc. Vira Tovazhnianska, M.D., Ph.D.	S16	<b>Pathology of the GIT 5</b> Malabsorption syndrome.	doc. Vira Tovazhnianska, M.D., Ph.D.	<b>RECAP - Pathology of the GIT</b>  - diseases of the teeth and salivary glands - diseases of the esophagus, stomach and intestines	<b>NEW - Pathology of the GIT 4</b> Appendicitis. Diverticulosis, diverticulitis.	Special interest:  <b>GIT, liver, pancreas</b>
	P32	<b>Pathology of the liver 1</b> Inflammation, metabolic and vascular disorders.	doc. Vira Tovazhnianska, M.D., Ph.D.						
3 10.3.- 16.3.	P33	<b>Pathology of the liver 2</b> Cirrhosis. Liver tumors.	doc. Vira Tovazhnianska, M.D., Ph.D.	S17	<b>Pathology of the GIT 6</b> Pathology of the peritoneum including hernias. Ileus.	doc. Vira Tovazhnianska, M.D., Ph.D.	<u>Prerequisites:</u> P29-31, S15	Special interest:  <b>Nephropathology</b>	
	P34	<b>Pathology of the exocrine pancreas</b>	MUDr. Miroslav Kobilček						doc. Vira Tovazhnianska, M.D., Ph.D.
4 17.3.- 23.3.	P35	<b>Nephropathology 1</b> Manifestation of renal diseases. Vascular disorders of the kidneys.	MUDr. Jaromír Háček	S18	<b>Uropathology 1</b> Malformations of the urinary system, penis and scrotum.	doc. Vira Tovazhnianska, M.D., Ph.D.	<b>RECAP - Pathology of the liver and pancreas</b>  - hepatitis - liver cirrhosis - hepatocellular carcinoma - cystic fibrosis of the pancreas - chronic pancreatitis - tumors of the pancreas	<b>NEW - Pathology of the biliary tract</b> Diseases of the gallbladder. Diseases of the extrahepatic biliary ducts.	Special interest:  <b>Nephropathology</b>
	P36	<b>Nephropathology 2</b> Disorders of the glomeruli.	MUDr. Jaromír Háček						
5 24.3.- 30.3.	P37	<b>Nephropathology 3</b> TIN. Kidney tumors.	doc. Vira Tovazhnianska, M.D., Ph.D.	S19	<b>Gynecologic pathology 1</b> Pathology of the breast, including predictive pathology.	doc. Vira Tovazhnianska, M.D., Ph.D.	<u>Prerequisites:</u> P32-34	Special interest:  <b>UROGYN</b>	
	P38	<b>Uropathology 2</b> Pathology of the urinary collecting system.	doc. Vira Tovazhnianska, M.D., Ph.D.						doc. Vira Tovazhnianska, M.D., Ph.D.
6 31.3.- 6.4.	P39	<b>Uropathology 2</b> Diseases of the prostate and testicles.	doc. Vira Tovazhnianska, M.D., Ph.D.	S20	<b>Gynecologic pathology 2</b> Pathology of pregnancy.	MUDr. Zora Šerňová	<b>RECAP - Nephropathology</b>  - nephrotic syndrome - nephritic syndrome - renal vasculitis - arterial hypertension and kidney damage - TIN - kidney tumors	<b>RECAP - Uropathology</b>  - disorders of the urinary flow - urogenital inflammation - urogenital tumors	Special interest:  <b>UROGYN</b>
	P40	<b>Gynecologic pathology 3</b> Pathology of the vulva, vagina and uterus.	prim. MUDr. Petr Škapa, Ph.D.						
7 7.4.- 13.4.	P41	<b>Gynecologic pathology 4</b> Pathology of the Fallopian tubes and ovaries.	prim. MUDr. Petr Škapa, Ph.D.	S21	<b>Endocrinopathology 1</b> Diseases of the hypophysis and adrenal glands.	MUDr. Daniela Hamalová	<u>Prerequisites:</u> P35-37	Special interest:  <b>Endocrinopathology</b>	
	P42	<b>Perinatal pathology</b>	doc. Vira Tovazhnianska, M.D., Ph.D.						doc. Vira Tovazhnianska, M.D., Ph.D.
8 14.4.- 20.4. (P4 18.4.)	P43	<b>Endocrinopathology 2</b> Diabetes mellitus.	Prof. MUDr. Roman Kodet, CSc.	S22	<b>Pathology of the bones and joints 1</b> Osteoporosis, osteonecrosis and metabolic osteopathy.	doc. Vira Tovazhnianska, M.D., Ph.D.	<b>RECAP - Gynecologic pathology</b>  - 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	<b>RECAP - Pathology of the breast</b>  - non-tumorous lesions - benign tumors of the breast - carcinoma of the breast	Special interest:  <b>Endocrinopathology</b>
	P44	<b>Endocrinopathology 3</b> Diseases of the thyroid and parathyroid glands.	Prof. MUDr. Roman Kodet, CSc.						
9 21.4.- 27.4. (Po 21.4.)	P45	<b>Pathology of the bones and joints 2</b> Inflammation (osteomyelitis, TBC, Paget's disease) and bone tumors.	Prof. MUDr. Roman Kodet, CSc.	S23	<b>Dermatopathology 1</b> Inflammation of the skin.	doc. Vira Tovazhnianska, M.D., Ph.D.	<u>Prerequisites:</u> P40-41	Special interest:  <b>Bones and joints</b>	
	P46	<b>Pathology of the bones and joints 2</b> Joint diseases.	Prof. MUDr. Roman Kodet, CSc.						doc. Vira Tovazhnianska, M.D., Ph.D.
10 28.4.- 4.5. (K1 1.5.)	P47	<b>Pathology of neoplasms in childhood and adolescence</b>	Prof. MUDr. Roman Kodet, CSc.	S24	<b>Dermatopathology 2</b> Skin tumors.	MUDr. Jan Balco, Ph.D.	<b>RECAP - Endocrinopathology</b>  - diseases of the hypophysis - diseases of the adrenal glands - diseases of the thyroid gland - diseases of the parathyroid glands	<b>RECAP - Pathology of the bones and joints</b>  - non-tumorous bone lesions - bone tumours - joint diseases	Special interest:  <b>Bones and joints</b>
	P48	<b>Neuropathology 1</b> General neuropathology, malformations, stroke.	Prof. MUDr. Josef Zámečnick, Ph.D.						
11 5.5.- 11.5. (K1 8.5.)	P49	<b>Neuropathology 2</b> Neuroinfections.	Prof. MUDr. Josef Zámečnick, Ph.D.	S25	<b>Neuropathology 3</b> Tumors of CNS.	doc. Vira Tovazhnianska, M.D., Ph.D.	<u>Prerequisites:</u> P43-44, S21	Special interest:  <b>CNS</b>	
	P50	<b>Neuropathology 3</b> Prionoses. Demyelination.	doc. Vira Tovazhnianska, M.D., Ph.D.						doc. Vira Tovazhnianska, M.D., Ph.D.
12 12.5.- 18.5. (MO 13.5.)	P51	<b>Neuropathology 4</b> Neurodegenerative diseases.	doc. Vira Tovazhnianska, M.D., Ph.D.	S26	<b>Pathology of infectious diseases 1</b> Mycoses and parasitic infections.	doc. Vira Tovazhnianska, M.D., Ph.D.	- inflammation of the skin - skin tumors	<b>RECAP - Neuropathology</b>  - general neuropathology - vascular disorders of the brain - brain tumors	Special interest:  <b>CNS</b>
	P52	<b>Pathology of infectious diseases 2</b> Bacterial infections I.	doc. Vira Tovazhnianska, M.D., Ph.D.						
13 19.5.- 25.5.	P53	<b>Pathology of infectious diseases 3</b> Bacterial infections II.	doc. Vira Tovazhnianska, M.D., Ph.D.	S27	<b>The future of pathology</b> NGS, DNA methylation profiling, liquid biopsies, AI, Raman histology...	Prof. MUDr. Josef Zámečnick, Ph.D. MUDr. Miroslav Kobilček	<u>Prerequisites:</u> S23-24	Special interest:  <b>CNS</b>	
	P54	<b>Pathology of infectious diseases 4</b> Viral infections I.	doc. Vira Tovazhnianska, M.D., Ph.D.						doc. Vira Tovazhnianska, M.D., Ph.D.
14 26.5.- 1.6.	P55	<b>Pathology of infectious diseases 5</b> Viral infections II.	doc. Vira Tovazhnianska, M.D., Ph.D.	S28					Special interest:  <b>CNS</b>
	P56	<b>Neuromuscular pathology</b>	doc. Vira Tovazhnianska, M.D., Ph.D.						