

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 2.10 - 8.10.	P1	<b>Introduction to the human pathology.</b> 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	<b>Methods of diagnostic pathology 1.</b> Organisation of biopsic service – types of samples and biopsies. Cytology. Peroperative biopsies. Autopsy.	<b>Introduction and organisation of the courses. Biohazard and personal protection. Excursion.</b>  doc. Vira Tovazhnianska, M.D., Ph.D.		x	<b>methods</b> (supplementary videos)
	P2	<b>Cell injury and adaptation.</b> Cell death, atrophy, hypertrophy, hyperplasia, metaplasia.	MUDr. Jan Ballo, Ph.D.						
2 9.10 - 15.10.	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.	<b>RECAP - Cell injury and adaptation</b> - 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						
3 16.10 - 22.10.	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.	<b>NEW - Disorders of the vascular flow 2</b> Local disorders of the vascular flow - thrombosis, embolism, infarction.			
	P6	<b>Disorders of the vascular flow 1</b> General disorders of the vascular flow.	doc. Vira Tovazhnianska, M.D., Ph.D.			<b>Prerequisites:</b> P2 doc. Vira Tovazhnianska, M.D., Ph.D.	doc. Vira Tovazhnianska, M.D., Ph.D.	MUDr. Zora Jenková	
4 23.10 - 29.10. (So 28.10.)	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.	<b>RECAP - Metabolic disorders</b> - 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.						
5 30.10 - 5.11.	P9	<b>Inflammation 2</b> Non-specific inflammation.	Prof. MUDr. Roman Kodet, CSc.	S5	<b>Healing (regeneration and reparation) and fibrosis</b>	<b>NEW - Metabolic disorders 2</b> Pathology of pigments.			
	P10	<b>Inflammation 3</b> Specific (granulomatous) inflammation - TBC.	Prof. MUDr. Roman Kodet, CSc.			<b>Prerequisites:</b> P3-5 doc. Vira Tovazhnianska, M.D., Ph.D.	doc. Vira Tovazhnianska, M.D., Ph.D.	MUDr. Linda Čapková, Ph.D.	
6 6.11 - 12.11.	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.	<b>RECAP - Inflammation</b> - 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.						
7 13.11 - 19.11. (Pa 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.	<b>NEW - Inflammation 3</b> Sarcoidosis, syphilis, granulomatous-purulent inflammation.			
	P14	<b>General oncology 4</b> Molecular cancerogenesis II.	Prof. MUDr. Roman Kodet, CSc.			<b>Prerequisites:</b> P8-10, S5 doc. Vira Tovazhnianska, M.D., Ph.D.	doc. Vira Tovazhnianska, M.D., Ph.D.	MUDr. Daniela Hamalová	
8 20.11 - 26.11.	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.	<b>RECAP - General oncology</b> - morphology of tumors		Topic: Hyperhydration (edema) and dehydration	
	P16	<b>General oncology 6</b> Mesenchymal tumors.	doc. Vira Tovazhnianska, M.D., Ph.D.			<b>Prerequisites:</b> P11-16, S6-7			
9 27.11 - 3.12.	P17	<b>Immunopathology and pathology of transplantation</b>	MUDr. Jan Ballo, Ph.D.	S9	<b>Cardiovascular pathology 3</b> Malformations of the heart.	<b>NEW - General oncology 9</b> Pseudotumors and cysts.			
	P18	<b>Cardiovascular pathology 1</b> Valvular heart disease.	doc. Vira Tovazhnianska, M.D., Ph.D.			doc. Vira Tovazhnianska, M.D., Ph.D.	doc. Vira Tovazhnianska, M.D., Ph.D.	prim. MUDr. Petr Škapa, Ph.D.	
10 4.12 - 10.12.	P19	<b>Cardiovascular pathology 2</b> Coronary artery disease.	doc. Vira Tovazhnianska, M.D., Ph.D.	S10	<b>Cardiovascular pathology 5</b> Myocarditis. Cardiomyopathy.	<b>RECAP - Cardiovascular pathology</b>  - 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.						
11 11.12 - 17.12.	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>	<b>NEW - Cardiovascular pathology 4</b> Pathology of the pericardial sac and tumors of the heart.			
	P22	<b>Pathology of the lungs 2</b> Inflammation of the lungs.	MUDr. Jan Ballo, Ph.D.			<b>Prerequisites:</b> P18-20, S9-10 doc. Vira Tovazhnianska, M.D., Ph.D.	doc. Vira Tovazhnianska, M.D., Ph.D.	MUDr. Miroslav Kobilíček	
12 18.12 - 24.12. (Ne 23.12.)	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 collaps of the lungs.	<b>RECAP - Pathology of the ENT, lungs and mediastinum</b> - 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						
13 1.1 - 7.1. (Po 1.1.)	P25	<b>Hematopathology 1</b> Diseases of the bone marrow I.	Prof. MUDr. Roman Kodet, CSc.	S13	<b>Hematopathology 3</b> Lymphadenitis.	<b>NEW - Pathology of the lungs 4</b> Pneumoconioses.			
	P26	<b>Hematopathology 2</b> Diseases of the bone marrow II.	Prof. MUDr. Roman Kodet, CSc.			<b>Prerequisites:</b> P21-24, S11-12 doc. Vira Tovazhnianska, M.D., Ph.D.	doc. Vira Tovazhnianska, M.D., Ph.D.	MUDr. Jaromír Házek	
14 8.1 - 14.1.	P27	<b>Hematopathology 4</b> Non-Hodgkin's lymphomas (NHL).	Prof. MUDr. Roman Kodet, CSc.	S14	<b>Hematopathology 6</b> Hodgkin's lymphoma. Histiocytosis.	<b>RECAP - Hematopathology</b> - diseases of the bone marrow (myelodysplastic syndrome, myeloproliferative diseases, leukemia) - lymphadenitis - lymphomas		Special interest:  Lymph nodes, spleen	<b>credit</b> credit exam
	P28	<b>Hematopathology 5</b> Anemias.	doc. Vira Tovazhnianska, M.D., Ph.D.				<b>NEW - Hematopathology 5</b> Plasma cell myeloma. Splenomegaly.	MUDr. Vít Čamr	

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1 19. 2. - 25. 2.	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.	Prerequisites: P25-28, S13-14  doc. Vira Tovazhnianska, M.D., Ph.D.	Special interest:  <b>Lymph nodes, spleen</b>  MUDr. Vit Campr
	P30	<b>Pathology of the GIT 2</b> Pathology of the esophagus and stomach.	doc. Vira Tovazhnianska, M.D., Ph.D.				
2 26. 2. - 3. 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.	RECAP - Pathology of the GIT  - diseases of the teeth and salivary glands - diseases of the esophagus, stomach and intestines  Prerequisites: P29-31, S15  doc. Vira Tovazhnianska, M.D., Ph.D.	NEW - Pathology of the GIT 4 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 4. 3. - 10. 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.	doc. Vira Tovazhnianska, M.D., Ph.D.	MUDr. Jan Balco, Ph.D.
	P34	<b>Pathology of the exocrine pancreas</b>	MUDr. Miroslav Kobilík				
4 11. 3. - 17. 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.	RECAP - Pathology of the liver and pancreas  - hepatitis - liver cirrhosis - hepatocellular carcinoma - cystic fibrosis of the pancreas - chronic pancreatitis - tumors of the 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.  Special interest:  <b>Nephropathology</b>
	P36	<b>Nephropathology 2</b> Disorders of the glomeruli.	MUDr. Jaromír Háček				
5 18. 3. - 24. 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.	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.	MUDr. Marek Grega
	P38	<b>Uropathology 2</b> Pathology of the urinary collecting system.	doc. Vira Tovazhnianska, M.D., Ph.D.				
6 25. 3. - 31. 3. (Pa 29. 3.)	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	RECAP - Uropathology  - disorders of the urinary flow - urogenital inflammation - urogenital tumors  Prerequisites: P38-39, S18  prof. MUDr. Roman Kodet, CSc.	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 1. 4. - 7. 4. (Po 1. 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	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.	Special interest:  <b>Endocrinopathology</b>
	P42	<b>Perinatal pathology</b>	doc. Vira Tovazhnianska, M.D., Ph.D.				
8 8. 4. - 14. 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.	RECAP - Pathology of the breast  - non-tumorous lesions - benign tumors of the breast - carcinoma of the breast  Prerequisites: S19  doc. Vira Tovazhnianska, M.D., Ph.D.	Special interest:  <b>Endocrinopathology</b>
	P44	<b>Endocrinopathology 3</b> Diseases of the thyroid and parathyroid glands.	Prof. MUDr. Roman Kodet, CSc.				
9 15. 4. - 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.	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.	Special interest:  <b>Bones and joints</b>
	P46	<b>Pathology of the bones and joints 2</b> Joint diseases.	Prof. MUDr. Roman Kodet, CSc.				
10 22. 4. - 28. 4.	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.	RECAP - Pathology of the bones and joints  - non-tumorous bone lesions - bone tumours - joint diseases  Prerequisites: P45-46, S22  doc. Vira Tovazhnianska, M.D., Ph.D.	Special interest:  <b>Bones and joints</b>
	P48	<b>Neuropathology 1</b> General neuropathology, malformations, stroke.	Prof. MUDr. Josef Zámečník, Ph.D.				
11 29. 4. - 5. 5. (Bt 1. 5.)	P49	<b>Neuropathology 2</b> Neuroinfections.	Prof. MUDr. Josef Zámečník, Ph.D.	S25 <b>Neuropathology 3</b> Tumors of CNS.	doc. Vira Tovazhnianska, M.D., Ph.D.	doc. Vira Tovazhnianska, M.D., Ph.D.	MUDr. Miroslav Kobilík
	P50	<b>Neuropathology 3</b> Prionoses. Demyelination.	doc. Vira Tovazhnianska, M.D., Ph.D.				
12 6. 5. - 12. 5. (Bt 8. 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.	RECAP - Dermatopathology  - inflammation of the skin - skin tumors  Prerequisites: S23-24  doc. Vira Tovazhnianska, M.D., Ph.D.	Special interest:  <b>CNS</b>
	P52	<b>Pathology of infectious diseases 2</b> Bacterial infections I.	doc. Vira Tovazhnianska, M.D., Ph.D.				
13 13. 5. - 19. 5. (Po Út 14. 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...	RNDr. Lenka Krávková, Ph.D. Prof. MUDr. Josef Zámečník, Ph.D. MUDr. Miroslav Kobilík	RECAP - Neuropathology  - general neuropathology - vascular disorders of the brain - brain tumors  Prerequisites: P48-51, S25  doc. Vira Tovazhnianska, M.D., Ph.D.	MUDr. Jan Soukup
	P54	<b>Pathology of infectious diseases 4</b> Viral infections I.	doc. Vira Tovazhnianska, M.D., Ph.D.				
14 20. 5. - 26. 5.	P55	<b>Pathology of infectious diseases 5</b> Viral infections II.	doc. Vira Tovazhnianska, M.D., Ph.D.	S28	<b>DISCUSSION - Q&amp;A</b> <b>12:35 - Department of Pathology and Molecular Medicine</b> prof. Zámečník, Dr. Balco, doc. Tovazhnianska, other teachers, biologist		Special interest:  <b>credit test / credit exam</b>
	P56	<b>Neuromuscular pathology</b>	Prof. MUDr. Josef Zámečník, Ph.D.				