CONTENT OF THE SUBJECT

Subject:	**Pathological Anatomy 1**		
Study	*General Medicine*	**Study Period:**	*Winter term*
Evaluation:	*Completed (credit)*	**Subject Type:**	*Compulsory*
Content:	*4 h lectures and 4 h practical lessons / week*		*Total 56/56 hours*

Department: **Institute of Pathology, UPJŠ FM**

Week	***Lectures***	***Practical lessons***
1.	Monday: Introduction to the study of pathology, basic methods in pathology. Thursday: Introduction to immunohistochemistry and molecular pathology.	Introduction and informations. Conditions for obtaining credit in the winter semester. Principles of work safety during practical lessons at the pathological-anatomical workplace of the The Healthcare Surveillance Authority and the Institute of Pathology. Lessons about the Obligation to Confidentiality. Introduction to Autopsy. Thanatology and postmortem changes.
2.	Monday: Teratogenic causes of diseases and congenital malformations. Thursday: Genetic causes of diseases and hereditary diseases.	Autopsy / Biopsy and Cytology
3.	Monday: Infectious and environmental diseases. Thursday: Immunological causes of diseases and immunopathology.	Biopsy and Cytology / Autopsy
4.	Monday: Cell injury and cellular adaptations. Thursday: Cell death, necrosis.	*<u>Regressive changes</u>* 1. Cell necrosis of renal tubules 2. Caseous necrosis of the lymph node 3. Liquefaction necrosis of the brain 4. Atrophy of the liver (brown atrophy) 5. Fatty infiltration of the heart 6. Extracellular hyaline changes (hyaline arteriolosclerosis of the kidney) 7. Hyaline droplets in the renal tubules 8. Hyaline changes in splenic capsule 9. Fibrinoid necrosis (degeneration) in rheumatoid nodule 10. Amyloidosis of the kidney

5.	Monday: Disorders of hemodynamics. Thursday: Disorders of homeostasis.	11. Fatty change of the liver (fatty liver) 12. Virus-induced cell injury (molluscum contagiosum) 13. Dystrophic calcifications in the heart 14. Cholesterol crystals in the epidermal cyst 15. Exogenous pigmentation (anthracosis of the lung) 16. Hemosiderosis of the liver 17. Silicosis of the lung *Circulation disorders* 18. Hypertrophy of the heart 19. Chronic passive congestion of the liver (”nutmeg liver”) 20. Chronic passive congestion of the lung (brown induration of lung)
6.	Monday: Inflammation. Thursday: Healing.	21. Thrombosis (mural thrombosis in aorta) 22. White infarct of the kidney 23. Red infarct of the lung 24. Pulmonary edema *Inflammation* 25. Acute serous inflammation of small intestine 26. Chronic inflammation of the nasal cavities 27. Acute purulent (suppurative) meningitis 28. Acute purulent apendicitis 29. Chronic granulomatous inflammation (tuberculosis of the lung) 30. Chronic granulomatous inflammation (sarcoidosis of lymph node)
7.	Monday: 1st Written revision test. Thursday: Deans day.	*Progressive changes* 31. Granulation tissue (inflammation in the (sub)chronic stages, connective tissue repair) 32. Organized and recanalized thrombus 33. Chronic granulomatous inflammation around foreign bodies (foreign body granuloma) 34. Squamous metaplasia of cylindrical epithelium *General oncology* 35. Pseudotumor (epidermoid cyst) 36. Preneoplastic disorder (cervical dysplasia) 37. Carcinoma in situ (intraductal carcinoma of the breast) 38. Metastasis of carcinoma in the lymph node 39. Characteristics of malignant neoplasms (parenchyma and stroma, anaplasia, and atypical mitoses)

8.	Monday: Carcinogenesis and neoplasia Thursday: Oncopathology	*Special oncology* *Mezenchymal tumors* 40. Fibroma 41. Fibrosarcoma 42. Lipoma 43. Chondroma 44. Osteoma 45. Chondrosarcoma 46. Cavernous hemangioma 47. Leiomyoma 48. Malignant fibrous histiocytoma *Epithelial tumors* 49. Squamous cell papilloma of the oral cavity 50. Papillary carcinoma of the thyroid gland
9.	Monday: Vascular and heart pathology. Thursday: Pathology of the heart.	51. Squamous cell carcinoma of the lip 52. Basal cell carcinoma of the skin (basalioma) 53. Transitional (urothelial) cell carcinoma of the bladder 54. Adenocarcinoma of the colon *Neuroectodermal tumors* 55. Neurinoma 56. Pigmented nevus of the skin (nevocellular nevus) 57. Malignant melanoma of the skin *Mixed neoplasia, germinative tumors, teratomas* 58. Benign teratoma (adult cystic type) of the ovary 59. Fibroadenoma of the breast 60. Seminoma of the testis *Choriocarcinoma* 61. Choriocarcinoma
10.	Monday: Pathology of the heart Thursday: Inflammatory lung diseases	*Cardiovascular system* 62. Infective (bacterial) endocarditis 63. Acute myocardial infarction 64. Healing myocardial infarction 65. Myocarditis 66. Atherosclerosis of the aorta 67. Polyarteritis nodosa
11.	Monday: Restrictive and obstructive lung diseases. Thursday: Neoplastic diseases of the lungs.	*Respiratory organs* 68. Acute purulent bronchitis 69. Bronchial asthma 70. Bronchopneumonia 71. Lobar pneumonia 72. Interstitial pneumonia 73. Fibroproductive pleuritis (pleurisy) 74. Squamous cell carcinoma of the lungs 75. Small cell carcinoma of the lungs
12.	Monday: Diseases of leukocytes. Thursday: Diseases of lymphocytes.	Repetition of histomorphological slides (1-75)

13	Monday: 2nd Written revision test. (Presence form) Thursday: Diseases of erythrocytes and platelets.	Histopathological colloquium – practical exam (1-75)
14.	Monday: Free topic Thursday: Free topic.	Presentation of autopsy cases.

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