**HISTOLOGY, CYTOLOGY AND EMBRYOLOGY**

**Curriculum of the lectures**

**for the 2nd year students, speciality of “General medicine”**

**fall term 2024/2025**

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| **№** | **The name** | **The date** |
| 1 | Cardiovascular system | 2.09-7.09 |
| 2 | Endocrine system | 9.09-14.09 |
| 3 | Immune system | 16.09-21.09 |
| 4 | Digestive system. Part 1 | 23.09-28.09 |
| 5 | Digestive system. Part 2 | 30.09-5.10 |
| 6 | Respiratory system | 7.10-12.10 |
| 7 | Urinary system | 14.10-19.10 |
| 8 | Female reproductive system | 21.10-26.10 |

**HISTOLOGY, EMBRYOLOGY, CYTOLOGY**

**Curriculum of the practical classes**

**for the 2nd year students, speciality of “General medicine”**

**fall term 2024/2025**

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| № | The name | The date |
| 1 | Skin and its appendages | 2.09-7.09 |
| 2 | Cardiovascular system  | 9.09-14.09 |
| 3 | Endocrine system-1 | 16.09-21.09 |
| 4 | Endocrine system-2 | 23.09-28.09 |
| 5 | Immune (lymphatic) organs and Immune system | 30.09-5.10 |
| 6 | **Quiz 4** | 7.10-12.10 |
| 7 | Digestive system. Class One. Oral cavity | 14.10-19.10 |
| 8 | Digestive system. Class Two. Oesophagus and stomach.  | 21.10-26.10 |
| 9 | Digestive system. Class Three. Small and large intestine. Lymphoid tissue | 28.10-2.11 |
| 10 | Digestive system. Class Four. Glands | 4.11-9.11 |
| 11 | **Quiz 5**  | 11.11-16.11 |
| 12 | Respiratory system | 18.11-23.11 |
| 13 | Urinary system | 25.11-30.11 |
| 14 | Male reproductive system | 2.12-7.12 |
| 15 | Female reproductive system | 9.12-14.12 |
| 16 | Fetal membranes and placenta | 16.12-21.12 |
| 17 | **Quiz 6** | 23.12-28.12 |

**CURRICULUM OF LECTURES**

**“Histology” for 2nd year students of the Faculty of Pharmacy**

**for the 3rd semester of the 2024/2025 academic year**

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| **№** | **Topic of the lecture** | **Date** |
| 1 | Histological elements. Cage | 2.09-7.09 |
| 2 | Epithelial and connective tissues | 9.09-14.09 |
| 3 | Muscle tissues | 16.09-21.09 |
| 4 | Nervous tissue. Neurons and Neuroglia | 23.09-28.09 |
| 5 | Digestive system | 30.09-5.10 |

**CURRICULUM OF PRACTICAL CLASSES**

**"Histology" for students of the Faculty of Pharmacy**

**2nd year, 3rd semester of the 2024/2025 academic year**

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| **№** | **Topic** | **slides** |
| **1** | Single-layer epithelium. | 1. Single-layer squamous epithelium2. Single-layer cubic epithelium (kidney tubules)3. Single-layer multi-row ciliated epithelium |
| **2** | Multilayered epithelium. Gland | 1. Multilayered squamous non-keratinizing epithelium (cornea)2. Multilayered squamous keratinizing epithelium (thick skin of the finger)3. Simple unbranched alveolar gland (frog skin glands) |
| **3** | Connective tissues | 1. Loose fibrous unformed connective tissue (mesentery)2. Dense fibrous unformed connective tissue (reticulated layer of the skin)3. Dense fibrous formed connective tissue (longitudinal section of the elastic ligament) |
| **4** | Skeletal tissues | 1. Hyaline cartilage2. Elastic cartilage3. Lamellar bone tissue. Transverse section of the tubular bone diaphysis |
| **5** | Blood and hematopoiesis | 1. Blood smear2. Bone marrow smear |
| **6** | Muscle tissues | 1. Skeletal muscle tissue (tongue muscle)2. Cardiac muscle tissue (myocardium)3. Smooth muscle tissue (muscular membrane of the intestine) |
| **7** | Skin and derivatives | 1. Skin with great keratinization (human finger skin)2. Skin with low keratinization. Sweat and sebaceous glands, longitudinal section of the hair follicle3. Skin of the scalp. Hair structure (cross-section) |
| **8** | Cardiovascular system | 1. Medium-caliber artery and vein (neurovascular bundle)2. Capillary network (mesenteric preparation)3. The Wall of the Heart |
| **9** | Endocrine System-1 | 1. Pituitary gland2. Thyroid gland3. Parathyroid gland |
| **10** | Endocrine System-2 | 3. Adrenal gland4. Islet of Langerhans (pancreatic preparation)5. Corpus luteum (ovarian preparation) |
| **11** | Digestive system | 1. Fundal part of the stomach2. Duodenum3. Pig liver |
| **12** | Nervous tissue and system | 1. Spinal cord (cross-section)2. Myelin nerve fibers3. Peripheral nerve trunk (transverse section) |
| **13** | Respiratory and urinary system | 1. Tracheal wall2. Lung parenchyma3. Mammal kidney4. Bladder wall5. Ureter |
| **14** | Male and female reproductive systems | 1. Testicle with epididymis2. Vas deferens3. Prostate gland4. Ovary5. Uterus6. Mammary gland |
| **15** | Credit |   |

**Histology, embryology, cytology – oral cavity**

**Curriculum of the lectures**

**for the 1st year students, speciality of “Dentistry” 1st (fall) term 2023/2024**

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| **№** | **Name** | **Date** |
| 1 | Cell | 4.09-9.09 |
| 2 | Human embryology | 11.09-16.09 |
| 3 | Epithelial and connective tissues | 18.09-23.09 |
| 4 | Cartilage and Bone | 25.09-30.09 |
| 5 | Blood and hemopoiesis | 2.10-7.10 |
| 6 | Muscle tissue | 9.10-14.10 |
| 7 | Nerve tissue and system | 16.10-21.10 |
| 8 | Endocrine system | 23.10-28.10 |

**HISTOLOGY, EMBRYOLOGY, CYTOLOGY – ORAL CAVITY**

**Curriculum of the practical classes**

**for the 1st year students, speciality of “Dentistry”**

**1st (fall) term 2024/2025**

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| **№** | **Name** | **Date** |
| 1 | Tissues and histologic elements. The cell | 2.09-7.09 |
| 2. | Embryology | 9.09-14.09 |
| 3 | Epithelial tissues | 16.09-21.09 |
| 4 | **Quiz 1 (topucs 1-3)** | 23.09-28.09 |
| 5 | Connective tissues | 30.09-5.10 |
| 6 | Skeletal tissue (cartilage and bone) | 7.10-12.10 |
| 7 | Blood and hemopoiesis | 14.10-19.10 |
| 8 | Muscle tissue | 21.10-26.10 |
| 9 | Nerve tissue and peripheral nervous system | 28.10-2.11 |
| 10 | **Quiz 2 (topics 5-9)** | 4.11-9.11 |
| 11 | The central nervous system. Sense organs. | 11.11-16.11 |
| 12 | Skin and its appendages | 18.11-23.11 |
| 13 | Cardiovascular system  | 25.11-30.11 |
| 14 | Endocrine system. Immune system | 2.12-7.12 |
| 15 | **Quiz 3 (topics 11-14)** | 9.12-14.12 |