

Programme of HISTOLOGY and EMBRYOLOGY 2 practica for 2nd class students of *General Medicine*, winter semester 2024/2025



Week 2 23 - 27 September 2024	Cardiovascular System <i>Specimens (7):</i> Cor (HE), Cor – Purkinje fibres of heart conducting system (trichrome), Aorta (trichrome, orcein – see the picture of specimen N.28 in 1st semester), Arteria carotis et vena jugularis (Azan), Muscular artery (Verhoeff's trichrome) – D (only demonstration by teacher), Capillaries and other vessels in adipose tissue (Azan)
Week 3 30 September - 4 October	Digestive System 1 <i>Specimens (11):</i> Lingua: dorsum, radix, papillae vallatae (HE), Tooth/Dens (HE), Tooth/Dens, development – cup stage (HE), Oesophagus (trichrome), Gaster: Corpus ventriculi (HE), Fundus ventriculi (cel. blue, kongo red, PAS) - D, Pylorus (Azan) - D, Intestinum tenue (HE), Colon (HE)
Week 4 7 – 11 October	Digestive System 2 <i>Specimens (8):</i> Gl. parotis (HE), Gl. submandibularis (HE), Gl. sublingualis (HE), Pancreas (HE), Hepar (HE, trichrome/Azan, impregnation of reticular fibres), Vesica fellea (trichrome) Morphology of organs through USG at the Institute of Medical Education and Simulations
Week 5 14 -18 October	Lymphatic System <i>Specimens (6):</i> Processus vermiformis/Appendix (HE), Tonsilla palatina (HE), Nodus lymphaticus (HE, impregnation of reticular fibres), Thymus lymphaticus (HE), Lien (HE)
Week 6 21 – 25 October	Respiratory System <i>Specimens (5):</i> Epiglottis (HE), Larynx (HE), Trachea (HE), Pulmo (HE, trichrome)
Week 7 28 October - 1 November	Urinary System <i>Specimens (4):</i> Ren (HE, Lillie – impregnation of reticular fibres), Ureter (trichrome), Vesica urinaria (trichrome)

- Week 8
4 – 8 November **Male Reproductive System**
Specimens (6): Testis (IH-E), Epididymis (HE), Ductus deferens and epididymis (Azan), Prostate (HE), Penis (trichrome) Vesicula seminalis (HE)
1st Partial test (themes of 2 – 7 weeks)
- Week 9
11 – 15 November **Female Reproductive System and Selected Embryological Structures**
Specimens (12): Ovarium (trichrome), Ovarium - Corpus luteum (1st month of pregnancy, HE), Tuba uterina (HE), Uterus: proliferative phase (HE) - D, Uterus: secretory phase (HE), Cervix uteri (HE), Decidua (4th month of pregnancy, HE) - D, Vagina (HE), Gl. mammae lactans (trichrome), Villi choriales (2nd month of development, HE) - D, Placenta fetalis (HE), Umbilicus (5th month of pregnancy, trichrome)
- Week 10
18 – 22 November **Endocrine Glands**
Specimens (7): Hypophysis (HE, Gömöri), Gl.pinealis - Epiphysis cerebri (HE), Gl. thyroidea (HE), Gl. parathyroidea (trichrome), Gl. suprarenalis (HE, impregnation of reticular fibres, Lillie)
- Week 11
25 - 29 November **Nervous System**
Specimens (7): Medulla spinalis (HE), Cerebrum (luxol blue and cresyl violet), Cerebellum (Holmes), Ganglion spinale (HE) - D, Nervus spinalis: transversal section (HE), Nervus opticus – transversal section (HE), Plexus choroideus (Azan)
- Week 12
2 - 6 December **Eye and Ear**
Specimens (2): Bulbus oculi (HE), Auris interna (HE)
Cutis
Specimens (4): Cutis: thin type (HE, orcein), Cutis – thick type (HE), Cutis cum capilli (HE)
- Week 13
9 – 13 December 2nd Partial test (themes of 8 – 12 weeks)
- Week 14
16 – 20 December (2 hours) **Substitution of missing practica. Credits** (for students who will have passed two Partial tests, fulfilled attendance requirements, and drew all tissue slides). *Credit test* will include questions about all the topics covered during the semester.

Explanations: “D” means that the teacher will only demonstrate the specimen and will not be included in the specimen box.

Notice: A short *Opening test* will be written at the beginning of the practicum (with the exception of the 2nd, 8th, 13th and 14th weeks). *Partial tests* will be written in the 8th and 13th weeks, and *Credit test* in the 14th week (only for the students who will not achieve a minimum of 70 % of correct answers on average from both Partial tests). *Correction credit tests* (possibility only of one Correction credit test) will be written by students who will not achieve at least 70% of correct answers on the Credit test. Their teacher will determine the date.

CONDITIONS for granting credits from the subject HaE2:

- 1) **Lectures:** Knowledge obtained during lectures and also knowledge from textbooks on the topic. The lecture attendance is essential given that lecture topics are intertwined and directly followed by the topics of DTSSs.
- 2) **Practical trainings:**
 - a) **Knowledge** from distance theoretical seminars (DTS) and knowledge from textbooks on a given topic of the teaching week, always in advance before the practicum. The lecture attendance is essential given that lecture topics are intertwined and directly followed by the topics of DTSSs.
 - b) Participation in the **opening test** at the beginning of each practicum. Rating test: At the end of the semester, a teacher will pick the better half of the students who will obtain a benefit in the evaluation of the semester.
 - c) Pass two **Partial tests** during the semester, written in the 8th and 13th weeks. The average test results must be at least 70%. If a student does not reach this required average, the student will write a **Credit test** at the end of the semester. The cutoff score is also 70%.
 - d) If, for serious reasons, a student cannot write the partial or credit test with their group within the specified deadline, they must agree with their teacher on a replacement date. Writing a test with another group without their teacher's approval will not be accepted.
 - e) Preparation of figures/pictures (own drawings or photographs) with detailed structures of **all histological specimens** in a notebook/tablet.
 - f) **Active presence** at the practica with a maximum of 2 missed but substituted.
According to *Internal Regulations of Comenius University Bratislava, Faculty of Medicine, Internal Regulation No. 31/2023:*
 - If a student has 1 or 2 absences, they must substitute them at the end of the semester - according to the agreement with their teacher.
 - If a student has 3, 4 or 5 absences, they must substitute them at the end of the semester according to the agreement with the head of the institute, no later than by the end of the semester.
 - If a student has 6 or more absences, it is impossible to give them the credits (the Vice-dean is in charge if this situation occurs).
 - g) **December preterms** will be available only for those students who will reach the 70% average from the Partial tests.

Prof. RNDr. Ivan Varga, PhD et PhD.
head of the institute

Bratislava 9th September 2024