**Semester 3, 2016/2017**

 [period Autumn 2016]

**Programme of of lectures and practices in histology and embryology**

**for the 2nd year of Dentistry (aZL)**

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| **Education week 2016** | **LECTURES** | **PRACTICES** |
| 19. 09. – 23. 09. | Microscopic structure of the lymphatic organs. Monocyte-macrophage system. | Repetition of tissues and cardiovascular system. |
| 26. 09. – 30. 09. | *Wed 28.9. public holiday* |
| 03. 10. – 07. 10. | Microscopic structure of respiratory system: Nasal cavity, structure of the larynx and trachea. Structure of the lungs, blood – air barrier. Development of the respiratory system. | Microscopic structure of the lymphatic organs. Slides: thymus, lymphonodus, lien, tonsillae (palatina et lingualis). |
| 10. 10. – 14. 10. | GIT II: General structure of the wall of digestive tube. Microscopic structure of the oesophagus, stomach and intestines. | Microscopic structure of respiratory system. Slides: concha nasi, epiglottis, larynx, trachea, pulmo. |
| 17. 10. – 21. 10. | GIT III: Microscopic structure of the liver,gallbladder, gall ducts, and pancreas.Overview of development of the gut. | Microscopic structure of the digestivesystem II. Slides: oesophagus, cardia, fundus ventriculi, pylorus, duodenum, intestinum tenue.  |
| 24. 10. – 28. 10. | Microscopic structure and development of the urinary system. Nephron - its structure, histotopography, and function. Blood circulation of kidneys. Urinarypassages. Stages in development ofkidneys. | Microscopic structure of the digestivesystem III. Slides: intestinum crassum. appendix, anus, hepar, vesica fellea, pancreas.  |
| 31. 10. – 04. 11. | Microscopic structure of the malereproductive system: Testis, excretory genital ducts, accessory genital glands, penis. Spermato- and spermiogenesis. Composition of the sperm.  | Microscopic structure of the urinarysystem. Slides: ren, calyx renalis,ureter, vesica urinalis, urethra feminina, pars cavernosa urethrae masculinae. |
| 07. 11. – 11. 11. | Microscopic structure of the femalereproductive system: Ovary, oviduct,uterus, vagina, external genitalia.Ovarian cycle, ovulation, atresia.Oogenesis. Menstrual cycle. Themenstrual and ovarian cycle – relations. | Microscopic structure of the malereproductive system. Slides: testis,epididymis, funiculus spermaticus,glandula vesiculosa, prostate, penis. |
| 14. 11. – 18. 11. | Development of internal and externalsexual organs. General characteristics of the indiferent stage. | Microscopic structure of the femalereproductive system. Slides: ovarium, corpus luteum, tuba uterina - ampulla, tuba uterina - isthmus, uterus - prolipherative and secretory phases,vagina, labium minus, placenta, funiculus umbilicalis. |
| 21. 11. – 25. 11. | Microscopic structure, histophysiology and development of endocrine glands: Hypophysis, epiphysis, thyroid gland, parathyroid glands, adrenal gland, and islets of Langerhans. Principles of humoral regulation. |  |
| 28. 11. – 02. 12. | Microscopic structure anddevelopment of the central andperipheral nervous system. Structureof gray matters in the CNS: Iso- andallocortex, cerebellar cortex, spinalcord. Meninges. Ganglia andperipheral nerves. Overwiev ofdevelopment of the brain and spinalcord. Histogenesis of the neural tube. | Microscopic structure of endocrineglands. Slides: hypophysis cerebri,epiphysis, glandula thyreoidea,glandula parathyreoidea, glandulasuprarenalis, islets of Langerhans. |
| 05. 12. – 09. 12..  | Microscopic structure of the ear.Major structural differences betweenthe statokinetic and acoustic compartments. Overview of development of the vestibulocochlear organ. | Microscopic structure of the sensoryorgans. The eye - slides: anterior eyesegment, posterior eye segment,fasciculus opticus, palpebra,gandula lacrimalis.The ear - slides: cochlea, auricula**.** |
| 12. 12. – 16. 12. | Microscopic structure of the organ ofvision: The eye and its refractive(dioptric) media. Accessory structures of the eye. Overview of development of the eye. | Microscopic structure of the centraland peripheral nervous system.Slides: cortex cerebri, cerebellum,medulla spinalis, ganglion spinale(the dorsal root ganglion), ganglionvegetativum (the autonomicganglion), peripheral nerve. |
| 19. 12. – 23. 12. | Microscopic structure and development of the skin and skin derivatives. Mammary gland. | Microscopic structure of the skin andskin derivatives. Slides: skin from thetip of the finger, skin from the axilla,skin with hairs, nail, mamma nonlactans, mamma lactans.Credits. |

 Doc. MVDr. **Aleš Hampl**, CSc.

 přednosta ústavu

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| 02. 01. – 06. 01. 2017 |  |  |