

Academic Year 2019/2020 Faculty of Dentistry

ED I. Microscopic Anatomy I.

Week	Digital histology slides <i>Histology laboratory practices Mondays 12.15-13.45</i>		
<p>Week 1 02. 3-7.</p>	<p>INTRODUCTION TO HISTOLOGY Compact and hollow organs, histological techniques 5. Wall structure of a hollow organ (esophagus, HE) 69. Structure of a parenchymal (compact) organ (liver, HE)</p> <p>Simple epithelial tissues 50. Simple squamous epithelium (endothelium, elastic artery, HE) 19. Simple cuboidal epithelium (umbilical cord, HE) 3. Simple columnar epithelium (gall bladder, HE) 4. Pseudostratified epithelium (epididymis, HE)</p>		
<p>Week 2 02.10-14.</p>	<p>Stratified epithelial tissues 5. Stratified squamous nonkeratinized epithelium (esophagus, HE) 6. Stratified squamous keratinized epithelium (palmar skin, HE) 7. Stratified columnar epithelium (penis, HE) 8. Transitional epithelium (urinary bladder, HE)</p> <p>Glandular epithelium 10. Goblet cells (large intestine, HE) 11. Holocrine secretion (sebaceous gland, hairy skin, HE) 12. Apocrine secretion (prostate, HE) 13. Merocrine secretion (submandibular gland, HE)</p>		
<p>Week 3 02.17-21.</p>	<p>Connective tissue fibres 14. Collagen fibres (tendon, HE) 15. Elastic fibers (large artery, RF) 16. Reticular fibers (liver, silver impregnation) 17. Differentiation between epithelial and connective tissues (hairy skin, Azan) 18. Collagen and elastic fibres (hairy skin, Hornowsky)</p> <p>Connective tissue cells, types of connective tissue 19. Embryonic connective tissue - mesenchyme (umbilical cord, HE) 20. Connective tissue cells (scar tissue, HE) 21. Mast cells (peritoneum, toluidine blue) 22. Fat cells – adipocytes (tongue, Sudan III.)</p> <p align="right"><i>Demonstration: 81. Cell rich connective tissue (uterus, HE) 46. Reticular connective tissue (spleen, HE)</i></p> <p>52. Blood cells (blood smear – May-Grünwald-Giemsa)</p>		
<p>Week 4 02.24-28.</p>	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <p>Supporting tissues 23. Hyalin cartilage (rib, HE) 24. Elastic cartilage (epiglottis, RF) 25. Fibrous cartilage (meniscus, HE) 26. Bone – cross section (Schmorl) 27. Bone – longitudinal section (Schmorl)</p> </td> <td style="vertical-align: top;"> <p>Types of ossification, bone restructuring 28. Endochondral ossification (phalanx, HE) 29. Intramembranous ossification (calvary, HE)</p> </td> </tr> </table>	<p>Supporting tissues 23. Hyalin cartilage (rib, HE) 24. Elastic cartilage (epiglottis, RF) 25. Fibrous cartilage (meniscus, HE) 26. Bone – cross section (Schmorl) 27. Bone – longitudinal section (Schmorl)</p>	<p>Types of ossification, bone restructuring 28. Endochondral ossification (phalanx, HE) 29. Intramembranous ossification (calvary, HE)</p>
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<p>Week 5 03.2-6.</p>	<p>Smooth,skeletal and cardiac muscle types 30. Smooth muscle – cross and longitudinal sections (Jejunum, HE) 31. Skeletal muscle – longitudinal section (HE) 32. Skeletal muscle – cross section (HE) 34. Cardiac muscle - cross section (HE) 35. Cardiac muscle - longitudinal section, Purkinje-fibers (HE)</p> <p>Blood vessels 50. Elastic artery (carotid artery, HE) <i>Demonstration : 15. Elastic artery (RF)</i> 51 Medium-sized artery and vein (HE) <i>Demonstration: Muscular artery and vein (RF)</i> 34. Arterioles, capillaries, venules, (cardiac muscle, HE)</p>		

<p>Week 6 03.9-13.</p>	<p>Gastrointestinal tract :Lip, tongue, lingual papillae. 53. Lip (H-E) 54. Filiform papillae (tongue, HE) 55. Fungiform papillae and small vessels (tongue, HE) 56. Circumvallate papillae (tongue, HE) <i>Demonstration: ÁOK 50. Foliate papilla (HE)</i></p> <p>Respiratory system 71. Larynx (HE) 73. Lung (HE) 72. Trachea (HE) <i>Demonstration ÁOK 61. Fetal lung (HE)</i></p>
<p>Week 7 03.16-20.</p>	<p>Gastrointestinal tract 1. 5. Esophagus, HE 61. Esophago-gastric junction (cardia) (HE) 62. Stomach (fundus) (HE) 63. Stomach (fundus) (PAS-Congo-haematoxylin stain) 64. Pylorus (gastro-duodenal junction, HE) 65. Duodenum (HE) 30. Jejunum (HE) 66. Ileum (HE)</p>
<p>Week 8 03.23-27.</p>	<p>Gastrointestinal tract2 Umbilical cord, placenta 10. Colon (HE) 19. Umbilical cord (HE) 67. Appendix (vermiform appendix; HE) 83. Placenta (HE) 68. Liver (swine, AZAN) 69. Liver (human, HE) 16. Liver, (AgNO₃ impregnation)</p>
<p>Week 9 03.30-04.3.</p>	<p>Gastrointestinal tract3 Urinary system 3. Gall bladder (HE) 2. Kidney (HE) 70. Pancreas (HE) 91. Ureter (HE) 8. Urinary bladder (HE)</p> <p>REVISION</p>
<p>04.6-04.10.</p>	<p>EASTER BREAK – SPRING HOLIDAYS</p>
<p>Week 10 04.13-17.</p>	<p>EASTER MONDAY - NO CLASS</p>
<p>Week 11 04.20-24. 04.23. Faculty Day</p>	<p>Midterm test : Histology and Embryology</p> <p>Male genital system 74. Testis (H-E) 12. Prostate gland (H-E) 4. Epididymis (H-E) 7. Penis (H-E) 75. Spermatic cord (H-E) 77. Glans penis (H-E) 76. Seminal vesicle</p>
<p>Week 12 04.27-05.01 COMPETITION¹ <i>Friday May 1</i></p>	<p>Female genital system 78. Ovary (H-E) 81. Uterus, proliferation phase (H-E) 79. Ovary, corpus luteum (H-E) 82. Uterus, secretory phase (H-E) 80. Uterine tube (oviduct) (H-E) 84. Vagina (H-E)</p>
<p>Week 13 05.04-08. COMPETITION 2</p>	<p>Tooth development, salivary glands, stology of the oral cavity 57. Developing tooth (AZAN) <i>Demonstration: ÁOK 54 a, b. Ground tooth (unstained)</i> 58. Parotid gland (HE) 13. Submandibular gland, HE 60. Submandibular gland (haematoxylin and mucicarmin stain) 59. Sublingual gland (HE)</p>
<p>Week 14 05.11-15.</p>	<p>Embryology consultation</p>