Semmelweis University
Department of Anatomy, Histology and Embryology
Academic Year 2021/2022 Fall Semester

ANATOMY HANDBOOK

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Assistant Professor
Course Director

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Full Professor
Head of Department
Anatomy ‘A’ Program for Physiotherapy, Nursing and Midwifery Students

Topics of first semester: Locomotor system and basic histology

Place of lectures and practices: Department of Anatomy, Histology and Embryology, Huzella’s Lecture Hall (2nd floor)
Budapest, Tűzoltó utca 58.
H-1094 Budapest
https://semmelweis.hu/anatomia/en/

<table>
<thead>
<tr>
<th>Weekly curriculum</th>
<th>Lectures Mondays 8.00</th>
<th>Practices Thursdays 8.00</th>
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<tbody>
<tr>
<td>1st week</td>
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<td>2nd week</td>
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<td>3rd week</td>
<td>September 20</td>
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<td>Introduction to the human anatomy. Nomenclature, orientation and epithelial tissue. Connective tissue. (Prof. Kiss)</td>
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<td>4th week</td>
<td>September 27</td>
<td>September 30</td>
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<td>5th week</td>
<td>October 4</td>
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<td>6th week</td>
<td>October 11</td>
<td>October 14</td>
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<td>Muscle tissue. General myology, structures of tendons. (Prof. Kiss)</td>
<td>Muscles of the upper limb. Review. Specimen demonstration. (Dr. Katz)</td>
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<td>7th week</td>
<td>October 18</td>
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<td>Blood supply and innervation of the upper limb. Carpal tunnel and syndrome. (Dr. Katz)</td>
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### Weekly curriculum

| 8th week | **October 25**  
Blood, blood vessels and immune system.  
(Prof. Kiss) | **October 28**  
Gross anatomy and movements of the vertebral column. Muscles of the back. Specimen demonstration. (Dr. Katz) |
|----------|-------------------------------------------------|-------------------------------------------------|
| 9th week | **November 1**  
Holiday |  |
| 10th week | **November 8**  
Chest cavity and diaphragm. Respiratory movements. (Dr. Katz) | **November 11**  
Bones and joints of the lower limb. Specimen demonstration. (Dr. Katz) |
| 11th week | **November 15**  
Abdominal muscles. Inguinal canal and hernia. Joints of the lower limb II. (Dr. Katz) |  |
| 12th week | **November 22**  
Pelvis. Muscles of the lower limb I. Structure of the foot and mechanism of the walking. (Dr. Katz) | **November 25**  
Muscles of the lower limbs II. Specimen demonstration. (Dr. Katz) |
| 13th week | **November 29**  
Structures of the skull. (Prof. Kiss) |  |
| 14th week | **December 6**  
Orbit, nasal cavity and pterygopalatine fossa. Review (Dr. Katz) | **December 9**  
Skull. Muscles of the head. Specimen demonstration. Pre-exam. (Dr. Katz) |

**Textbook:** *either ‘Anatomy An Essential Textbook’ by Gilroy* (publisher: Thieme) *or ‘Color Atlas of Human Anatomy’ Vol. 1-3* (publisher: Thieme)

**Anatomy atlas:** *‘Human Gross Anatomy’ by Olinger* (publisher: LWW)
Human Anatomy ‘A’ and ‘B’ exams

The Anatomy ‘A’ and ‘B’ exams will be held in person at the Anatomy Department, Huzella’s Lecture Hall (2nd floor) during the exam period (December 13, 2021 - January 28, 2022.). The parts of the exams are listed below.

The ‘A’ and ‘B’ exams are oral exams with preparation time.s

Parts of the Anatomy ‘A’ exam: description of one topic from the ‘Upper limb, chest cavity and vertebral column. Histology’ and one topic from the ‘Lower limb, abdominal muscles and skull’. The average of the two parts gives the final grade. If you fail one part of the exam, the entire exam will be failed and you have to retake it completely.

Parts of the Anatomy ‘B’ CV exam: description of one topic from the ‘Internal organs’ and one topic from the ‘Neuroanatomy’. The average of the two parts gives the final grade. If you fail one part of the exam, the entire exam will be failed and you have to retake it completely.

RULES AND REGULATIONS OF ANATOMY EXAMS

• Every student has to identify herself/himself by providing a photographic card (ID card, passport, student card or driving license).
• DO NOT talk to, signal to or disturb other students during the exam.
• During the exam, it is strictly forbidden to talk or disturb other students. All forms of communication among students is strictly forbidden.
• DO NOT leave the exam room for any reason without the permission of the teacher.

ADVICE AND INFORMATION

• Listen to the teacher and follow the instructions.
• If you are not sure about what to do, raise your hand to attract attention. The teacher will come to your assistance.
• YOU MUST NOT ASK FOR, AND WILL NOT BE GIVEN ANY EXPLANATION OF THE TOPICS.
WARNING

- MAKE SURE YOU ARE ON TIME. KNOW THE DATE, TIME AND PLACE (Huzella's Lecture Hall) OF YOUR TEST AND ARRIVE WELL BEFORE THE SCHEDULED START TIME. IF YOU ARRIVE LATE, YOU WILL NOT BE ALLOWED TO TAKE THE EXAM.

- YOU MUST NOT BECOME INVOLVED IN ANY UNFAIR OR DISHONEST PRACTICE IN ANY PART OF THE EXAMINATION.

- YOU MUST NOT SIT FOR AN EXAMINATION IN THE NAME OF ANOTHER STUDENT.

- YOU MUST NOT HAVE IN YOUR POSSESSION ANY UNAUTHORISED MATERIAL OR EQUIPMENT WHICH MIGHT GIVE YOU AN UNFAIR ADVANTAGE.

- DO NOT KEEP your mobile phone, smart watch, written/printed study aids, books or any unauthorised material next to you during the exam, even if you do not intend to use it. Such actions are considered as violation of the Study and Examination Policy of the Semmelweis University and it will result in an immediate termination of the examination with a fail and may be followed by a legal procedure.

Topics of Anatomy ‘A’ (first semester)

Upper limb, chest cavity and vertebral column. Histology

1. Planes, directions, way of orientation in human body. Epithelial tissue.
3. Carpal bones, carpal tunnel and related muscles. Metacarpal bones and fingers.
7. General osteology, bone tissue, bone development. Wrist joint.
8. Flexor muscles of the forearm.
10. Cartilaginous and bone tissue. Flexor muscles of the forearm.
13. Innervation of the upper limb. Carpal tunnel.
15. Vertebral column and superficial back muscles.
17. Muscles of the back. Movements of the vertebral column.

**Lower limb, abdominal muscles and skull**

2. Gluteal muscles, suprapiriform and infrapiriform hiatuses.
3. Abdominal muscles. Inguinal canal and subinguinal hiatus.
5. Knee joint, muscles acting on the knee.
7. Extensor and flexor muscles of the thigh.
8. Extensor and flexor muscles of the leg.
15. Structure of the skull: neurocranium.
17. Nasal cavity and orbit.
20. Muscles of the head.

**Topics of Anatomy ‘B’ (second semester)**

**Internal organs**

1. Oral cavity and teeth.
2. Oral cavity and tongue.
4. Respiratory system, nasal cavity and larynx.
5. Respiratory system, trachea and lungs.
7. Posterior mediastinum.
8. Heart: gross anatomy of the heart.
9. Blood supply of the heart.
13. Liver and pancreas.
16. Male genital organs.
17. Female genital organs.

**Neuroanatomy**

1. Nervous tissue and synapses. Fasciculus gracilis and cuneatus.
2. Spinal cord.
5. Cerebrum, cerebellum and basal ganglia. Spinocerebellar tracts.
8. Cranial nerves: II. IV. VI. XI. XII.
9. Cranial nerves: VII. IX. X.
11. Neuroendocrine system: thyroid, parathyroid and adrenal glands, pancreas.
13. Ear and hearing.

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*Dr. Sándor Katz Ph.D.*

*Course Director*