



МЕДИЦИНСКИ УНИВЕРСИТЕТ – СОФИЯ
Medical University - Sofia
МЕДИЦИНСКИ ФАКУЛТЕТ
Faculty of Medicine – Dean’s Office

HUMAN ANATOMY CURRICULUM

The curriculum has been adopted at the meeting of the Faculty Council № 41/08.07.2020

Annotation of the academic discipline

The main goal of the discipline Human anatomy and histology is to obtain profound knowledge about the normal structure of the organs and systems in the human body at the gross and microscopical level. This is a compulsory premise for the study of pathological processes in different diseases. The main aspect of the students’ training in anatomy and histology is to work with dry (bones) and fixated material (from cadavers), and also to identify the normal microscopical patterns of the internal organs.

Students’ motivation to learn the material in anatomy and histology is to understand the necessity for detailed knowledge about the structure of the human body that is an absolute precondition for their future occupation as medical doctors. In the dissection rooms the students are given the opportunity to use a lancet and pincers to approach the different body structures, to learn the syntopy and skeletotopy of the internal organs, as well as evaluate their probable variations, shape, consistence, colour and normal size.

Main objectives of the study programme

Acquisition of theoretical knowledge in human anatomy with a practical and clinical stress necessary to pharmacy students.

Lectures

1. Introduction in Anatomy and Histology. Structure of the cell.
2. Epithelial tissue. Connective tissue. Blood.
3. Muscle tissue. Nervous tissue. Reproductive cells.
4. Locomotor apparatus. General structure of the bones, the joints and the muscles.
5. Overview of the bones, the joints and the muscles of the human body.
6. Circulatory system. Heart. Blood vessels.
7. Organs of the respiratory system.
8. Organs of the digestive system.
9. Organs of the urinary system. Skin.
10. Male and female reproductive organs.
11. Endocrine system.
12. Central nervous system.
13. Peripheral nervous system. Vegetative nervous system.
14. Sense organs.
15. Pathways (tracts) and transmitters in the central nervous system.

Seminars

1. CYTOLOGY AND HISTOLOGY
2. BONES, JOINTS AND MUSCLES
3. CARDIOVASCULAR AND RESPIRATORY SYSTEM
4. DIGESTIVE SYSTEM
5. URINARY AND REPRODUCTIVE SYSTEM
6. CENTRAL NERVOUS SYSTEM AND SENSE ORGANS
7. PERIPHERAL AND AUTONOMIC NERVOUS SYSTEM

Ongoing assessment – forms, frequency

- Oral assessment at the beginning of the practical seminars;
- Mid-exam in the last week of the term. The marks of the mid-exams and tests are entered in a student individual card and are taken into consideration for the overall mark at the final exam.

Syllabus for Human anatomy and Histology

1. Cell. Cell membrane and membranous organelles.
2. Cell. Non-membranous organelles. Cell inclusions.
3. Cell. Membrane transport. Cell signaling.
4. Cell cycle, cell proliferation, cell injury, cell death.
5. Epithelial tissue. Connective tissue
6. Muscle tissue. Nerve tissue.
7. Bones – structure and types.
8. Joints. Synovial joints.
9. Bones and joints of skull, vertebral column and thorax.
10. Bones and joints of pectoral girdle and free upper limb.
11. Bone and joints of pelvic girdle and free lower limb.
12. Structure and mechanics of skeletal muscles.
13. Muscle groups of the human body.
14. Alimentary system. Oral cavity. Teeth, gingiva, tongue, salivary glands.
15. Pharynx, esophagus, stomach
16. Small and large intestine. Liver. Pancreas.
17. Respiratory system.
18. Urinary system.
19. Male genital system.
20. Female genital system.
21. Endocrine glands.
22. Cardiovascular system.
23. Heart.
24. Blood vessels.
25. Pulmonary and systemic circulation.
26. Lymphoid system.
27. Central nervous system. Spinal cord.
28. Brain stem. Cerebellum.
29. Telencephalon.
30. Diencephalon.
31. Limbic system.
32. Meninges, blood supply and brain ventricles.
33. Spinal nerves.

34. Cranial nerves.
35. Autonomic nervous system.
36. Eye.
37. Ear.
38. Olfactory organ.
39. Gustatory organ.
40. Skin.

Academic literature:

Fundamentals of Anatomy and Physiology for Student Nurses. by Ian Peate (Editor), Muralitharan Nair (Editor) Wiley-Blackwell; 1 edition (November 28, 2011), ISBN-13: 978-1444334432, 2011.