**ANATOMY 2** General medicine - spring 2016

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| **Lectures – 3 hours** | | **Seminars – 3 hours** | **Self-study** |
| **1.** | **Heart** | Heart, ascending aorta, aortic arch. | Innervation and the lymph system of the heart. Projection of the heart on the thoracic wall. |
| **2.** | **Arteries, veins, lymph system (digest)** | Descending aorta, main arteries and veins. Portal vein, portocaval anastomoses. Fetal circulation. | Branches of arteries. Tributaries of veins. Lymphatic system. |
| **3.** | **Spinal cord and brain stem (structure)** | Gross anatomy of the CNS (spinal cord, brain stem, cerebellum, mesencephalon, diencephalon). Appearance of the cranial nerves in the brainstem. | General anatomy of CNS |
| **4.** | **Cranial nerves (III.-VII., IX)** | Cranial nerves (III. – XII.), course, skull base | The main innervation regions of cranial nerves |
| **5.** | **Auditory and vestibular system, cranial nerves VIII, X-XII.** | Auditory and vestibular system + temporal bone | The main innervation regions of cranial nerves |
| **6.** | **Visual system, orbital region** | Visual system + orbital region |  |
| **7.** | **Telencephalon, Basal ganglia (connections, functions)** | Telencephalon (anatomy; grey matter – cortex + basal ganglia; white matter – pathways) | Basic cortical areas by Brodmann. |
| **8.** | **Blood supply, meninges and ventricles**  **of the CNS, cerebrospinal fluid** | Blood supply, meninges and ventricles  of the CNS, cerebrospinal fluid | Circumventricular organs. |
| **9.** | **Human body imaging** **techniques, organ projections** | Imaging techniques, reading of anatomical structures | Skin and its derivatives. |
| **10.** | **Cerebellum (structure, connections, functions)**  **Diencephalon (structure, functions) Hypothalamic-pituitary connections** | Preparations for the dissection:  head, neck and trunk regions | Axonal transport. |
| **11.** | **Cervical plexus. AOB**. | Preparations for the dissection:  head, neck and trunk regions | Cervical plexus, intercostal nerves. |
| **12.** | **ANS (cervical sympathetic system, enteric system, central modulation of the ANS)** | Preparations for the dissection:  head, neck and trunk regions | ANS (division, characteristics, basic structural arrangements). |
| **13. 14.** | Dissection (dissection of the head, neck and trunk) | | |