Group C: Vascular, lymphatic and peripheral nervous system – *red*

Arteries

1. **Aorta and coronary arteries**
- Main points: general structure of the vascular wall; course, branches and supplied areas, syntopy, aneurysm, bypass, catheterization and angioplasty
- Figures: scheme of the course and main branches

2. **Abdominal aorta**
- Main points: general structure of the vascular wall; course, branches and supplied areas, syntopy, aneurysm
- Figures: scheme of the course and main branches

3. **Iliac arteries**
- Main points: general structure of the vascular wall; course, branches and supplied areas, syntopy, aneurysm
- Figures: scheme of the course and main branches

4. **External carotid artery**
- Main points: general structure of the vascular wall; course, branches (main branches and their branches) and supplied areas, syntopy, course through the openings in the skull
- Figures: scheme of the course and main branches

5. **Maxillary artery**
- Main points: general structure of the vascular wall; course, parts, branches and supplied areas, syntopy, course through the openings in the skull, epidural bleeding
- Figures: scheme of the course and main branches

6. **Internal carotid artery**
- Main points: general structure of the vascular wall; course, parts, branches and supplied areas, syntopy, course through the openings in the skull
- Figures: scheme of the course and main branches, ultrasound examination and palpation

7. **Cerebral arterial circle**
- Main points: general structure of the vascular wall; course, parts, branches and supplied areas, syntopy, clinically important branches and consequences of the closures/bleedings, subarachnoid bleeding, aneurysm, supplied areas
- Figures: scheme and main branches, cortical supplied areas by the cortical arteries

8. **Vertebral artery**
- Main points: general structure of the vascular wall; course, parts, branches and supplied areas, syntopy, course through the openings in the skull and vertebral column
- Figures: scheme of the course and main branches

9. **Subclavian artery**
- Main points: general structure of the vascular wall; course, parts, branches and supplied areas, syntopy, scalene syndrome, subclavian steal syndrome
- Figures: scheme of the course and main branches

10. **Arteries of the upper limbs**
- Main points: general structure of the vascular wall; course, parts, branches and supplied areas, syntopy, palpation, catheterization, dialyzation fistulae
- Figures: scheme of the course and main branches

11. **Arteries of the lower limb**
- Main points: general structure of the vascular wall; course, parts, branches and supplied areas, syntopy, palpation, catheterization, bypasses
- Figures: scheme of the course and main branches

Veins

12. **Dural venous sinuses and veins of the brain**
- Main points: general structure of the vascular wall; list of sinuses, their tributaries and drainage area, syntopy, emissary veins, subdural bleeding
- Figures: lateral and superior view to the dural venous sinuses, frontal section of the cavernous sinus

13. **Veins of the neck**
- Main points: general structure of the vascular wall; course, tributaries and drainage area, syntopy, central catheterization, emissary veins
- Figures: scheme of the course and main branches

14. **Superior vena cava and its tributaries, cavo-caval anastomoses**
- Main points: general structure of the vascular wall; course, tributaries and drainage area, syntopy, central catheterisation, cavo-caval anastomoses
- Figures: scheme of the course and main branches

15. **Inferior vena cava and its tributaries, cavo-caval anastomoses**
- Main points: general structure of the vascular wall; course, tributaries and drainage area, syntopy, cavo-caval anastomoses
- Figures: scheme of the course and main branches

16. **Portal vein and porto-caval anastomoses**
- Main points: general structure of the vascular wall; course, tributaries and drainage area, syntopy, portal hypertension, porto-caval anastomoses
- Figures: scheme of the course and main branches

17. **Veins of the thorax and porto-caval anastomoses**
- Main points: general structure of the vascular wall; course, tributaries and drainage area, syntopy, portal hypertension, porto-caval anastomoses
- Figures: scheme of the course and main branches

18.**Superficial veins of the limbs and venous perforators**

- Main points: general structure of the vascular wall; course, tributaries and drainage area, syntopy, venepuncture, perforators and their function, varices
- Figures: scheme of the course and main branches, scheme of a perforator, subinguinal venous confluence

19.**Deep veins of the limbs and venous perforators**

- Main points: general structure of the vascular wall;, course, tributaries and drainage area, syntopy, perforators and their function
- Figures: scheme of the course and main branches, scheme of a perforator

Lymphatic system

20.**Spleen**

- Main points: parts, structure, syntopy, course and branches of the vessels, blood supply and innervation, function, delayed rupture of spleen
- Figures: syntopy of the spleen

21.**Thymus, encapsulated and non-encapsulated lymphoid tissue**

- Main points: parts, structure, syntopy, blood supply and innervation, function; tonsils – overview, structure and function; lymph node – overview, structure and function, MALT
- Figures: pharyngeal lymphoid ring

22.**Lymphatic vessels and trunks**

- Main points: general structure of the vascular wall; course, tributaries, syntopy, drainage area
- Figures: scheme of the course and main branches

23.**Lymphatic drainage of the head and neck**

- Main points: lymph nodes of the head and neck and their drainage areas, drainage of the organs (especially of the tongue), nodes of Virchow-Troisier, TNM staging system
- Figures: scheme of the lymph nodes of the head and neck, scheme of the lymphatic drainage of the tongue

24.**Lymphatic drainage of the thorax and upper limbs**

- Main points: lymph nodes of the thorax and upper limbs and their drainage areas, drainage of the organs (especially of the lungs and mammary gland), node of Sorgius, TNM staging system
- Figures: scheme of the lymph nodes of the thorax and upper limbs, scheme of the lymphatic drainage of the lungs and mammary gland

25.**Lymphatic drainage of the abdomen**

- Main points: lymph nodes of the abdomen and their drainage areas, drainage of the organs (especially of the stomach and large intestine), TNM staging system

- Figures: scheme of the lymph nodes of the abdomen, scheme of the lymphatic drainage of the stomach and large intestine

26. **Lymphatic drainage of the pelvis and lower limbs**
- Main points: lymph nodes of the pelvis and lower limbs and their drainage areas, drainage of the organs (especially of the ovary/testis, uterus, prostate, scrotum), node of Cabanas, TNM staging system
- Figures: scheme of the lymph nodes of the pelvis and lower limbs, scheme of the lymphatic drainage of the uterus

Peripheral nervous system

27. **General structure of the spinal nerve and thoracic nerves**
- Main points: scheme of the PNS; function, structure and branches of the spinal nerve; course, branches and types of impulses (modalities) of the thoracic nerves, syntopy, innervated area, herpes zoster
- Figures: scheme of the spinal nerve

28. **Dermatomes, myotomes, peripheral nerve fields, Head's zones**
- Main points: definitions, examples, clinical importance
- Figures: dermatomes of the body and limbs, sensory innervation of the head and limbs

29. **Special sensory cranial nerves**
- Main points: olfactory, optic and vestibulocochlear nerve, development, nuclei, types of impulses (modalities) , origin, course, course through the openings in the skull, branches, syntopy, function, clinical examination, reflexes, paralysis/irritation
- Figures: scheme of the course and main branches, olfactory, visual, auditory and vestibular pathway, internal acoustic meatus, scheme of the pupillary reflex

30. **Oculomotor, trochlear and abducent nerves**
- Main points: development, nuclei, types of impulses (modalities) , origin, course, course through the openings in the skull, branches, syntopy, function, clinical examination, reflexes, paralysis /irritation
- Figures: scheme of the course and main branches, frontal section of the cavernous sinus, scheme of the pupillary reflex

31. **Trigeminal nerve**
- Main points: development, nuclei, types of impulses (modalities) , origin, course, course through the openings in the skull, branches, syntopy, function, clinical examination, reflexes, palsy/irritation (neuralgia), anesthesia
- Figures: scheme of the course and main branches

32. **Facial nerve**
- Main points: development, nuclei, types of impulses (modalities) , origin, course, course through the openings in the skull, branches, syntopy, function, clinical examination, reflexes, central and peripheral paralysis

- Figures: scheme of the course and main branches, canalis nervi facialis

33. **Glossopharyngeal, vagus and accessory nerves**
- Main points: development, nuclei, types of impulses (modalities) , origin, course, course through the opening in the skull, branches, syntopy, function, clinical examination, reflexes, palsy/irritation
- Figures: scheme of the course and main branches, jugular foramen

34. **Vagus nerve**
- Main points: development, nuclei, types of impulses (modalities) , origin, course, course through the opening in the skull, branches, syntopy, function, clinical examination, reflexes, palsy/irritation
- Figures: scheme of the course and main branches, jugular foramen

35. **Cervical plexus and hypoglossal nerve**
- Main points: hypoglossal nerve: development, nuclei, types of impulses (modalities) , origin, course, course through the opening in the skull, branches, syntopy, function, clinical examination, reflexes, palsy/irritation; nerves of the plexus and their course, branches, types of impulses (modalities) , syntopy and innervated areas, palsy/irritation, point of Jonáš
- Figures: scheme of the course and main branches

36. **Brachial plexus**
- Main points: nerves of the plexus and their course, branches, types of impulses (modalities) , syntopy and innervated areas, palsy/irritation, reflexes, regional anesthesia, entrapment syndromes
- Figures: scheme of the course and main branches, dermatomes and sensitive innervation of the upper limb

37. **Lumbar plexus**
- Main points: nerves of the plexus and their course, branches, types of impulses (modalities) , syntopy and innervated areas, palsy/irritation, reflexes, regional anesthesia, entrapment syndromes
- Figures: scheme of the course and main branches, dermatomes and sensitive innervation of the lower limb

38. **Sacral plexus**
- Main points: nerves of the plexus and their course, branches, types of impulses (modalities) , syntopy and innervated areas, palsy/irritation, reflexes, regional anesthesia, entrapment syndromes
- Figures: scheme of the course and main branches, dermatomes and sensitive innervation of the lower limb

39. **Sympathetic trunk**
- Main points: general function of the autonomic nervous system and its sympathetic part (mediators, receptors), structure, types of impulses (modalities) , location, ganglia,

branches, innervated areas, syntopy, function, Claude Bernard-Horner's syndrome, pupillary reflex

- Figures: general structure of the spinal nerve, scheme of the course and main branches, scheme of the pupillary reflex

40. **Abdominal autonomic plexuses**

- Main points: general function of the autonomic nervous system and sympathetic part (mediators, receptors), structure, types of impulses (modalities) , location, ganglia, branches, innervated areas, syntopy, function, Cannon-Boehm's point
- Figures: scheme of the course and main branches

41. **Cranial parasympathetic system**

- Main points: general function of the autonomic nervous systemand its parasympathetic part (mediators, receptors), structure, types of impulses (modalities) , location, ganglia, branches, innervated areas, syntopy, function
- Figures: scheme of the course and main branches

42. **Sacral parasympathetic system**

- Main points: general function of the autonomic nervous systemand its parasympathetic part (mediators, receptors), structure, types of impulses (modalities) , location, ganglia, branches, innervated areas, syntopy, function, Cannon-Boehm's point
- Figures: scheme of the course and main branches