

Topics of the anatomy practices and the quizzes

Week 1: Projections of the heart and thoracic organs onto the anterior thoracic wall. The external characteristics of the heart; absolute and relative dullness of the heart

Projections of the heart onto the anterior thoracic wall; the outline of the heart (opening of the SVC into the atrium, left and right ends of the coronary sulcus, apex of heart).

Auscultation points of the cardiac valves (bicuspid valve; tricuspid valve; pulmonary valve; aortic valve).

Freehand drawing of the outline of the heart and the auscultation points.

Surface markings of the lungs and pleura onto the anterior thoracic wall. Orientation on the AP chest X-ray images.

Topography of the heart.

The external characteristics of the heart.

Absolute dullness.

Relative dullness.

Axis of the heart.

Structural units of the heart: cardiac skeleton (fibrous rings), atria, ventricles.

Week 2: Middle mediastinum; the anatomy of the heart and its blood vessels. The interior of the opened heart. Pericardium.

1st quiz:

External items of the heart.

Items in chambers of the heart.

Anatomy of the cardiac valves.

The coronary arteries and their branches.

The intrinsic veins of heart.

Sinuses of the pericardial sac.

Items of the middle mediastinum (their origins, courses).

Recapitulation:

Definition and borders of mediastinum.

Divisions of mediastinum (transverse versus frontal primary dividing planes).

The borders of the superior mediastinum and its layers. Topography of the relevant organs.

Superior vena cava and its roots; formation of the venous angle.

Aortic arch and its branches.

Chambers and valves of the heart.

Anatomy of the interatrial septum.

Anatomy of interventricular septum: the muscular and membranous parts.

Endocardial duplicatures.

Blood supply to the heart.

Layers of the cardiac wall.

Anatomy of the pericardium. The pericardial cavity: pericardial reflections surrounding the great arteries and veins, transverse and oblique pericardial sinuses.

The atrial musculature; pectinate muscles.

The ventricular musculature; trabeculae carneae, septomarginal trabecule (moderator band), papillary muscles.

The right coronary artery: origin, course, main branches, supplied area.

The left coronary artery: origin, course, main branches, supplied area.

The coronary sinus: formation and topography.

The systems of the great, middle and small cardiac veins; their drained areas.

Description of the smallest cardiac veins.

Week 3: Posterior mediastinum: sympathetic nervous system, lymphatic circulation, venous drainage of the posterior thoracic wall

2nd quiz:

Definition of the posterior mediastinum, its boundary and contents.

Thoracic aorta: its course, the parietal and visceral branches, the supplied areas.

The azygos system: origins, roots (tributaries), topography, sites of emptying.

Sympathetic trunk: paravertebral ganglia, interpretation of the pre- and postganglionic fibers, splanchnic nerves.

Spinal cord segments: interpretation, major structural elements, formation of spinal nerve.

Definition of the posterior mediastinum and its contents.

Thoracic aorta: its course, the supplied areas of the its parietal and visceral branches.

Thoracic duct: formation, roots, drained areas, course, the site of emptying into the venous system.

Azygos and hemiazygos veins: origins, roots (tributaries), topography, sites of emptying.

Sympathetic trunk: paravertebral ganglia, interpretation of the pre- and postganglionic fibers, origins and targets of the splanchnic nerves.

Spinal cord segments: interpretation, major structural elements, rootlets, roots, trunk of spinal nerve, main branches of spinal nerves.

Week 4: 1st practical assessment.

Projection of the abdominal organs onto the abdominal wall. Muscles of the anterolateral abdominal wall. Rectus sheath.

1st practical assessment.

Pericardium: layers and sinuses.

The pericardial reflections surrounding the great arteries and veins. The "lying Sappey's T".

External surface of heart.

The structure of cardiac wall.

Items in chambers of the heart, including the valves and cusps.

The great arteries and veins of heart

The intrinsic blood vessels of heart: origins, courses and supplied areas of the arteries and the drained areas, courses and sites of emptying of the veins.

Right coronary a.: right marginal branch, posterior interventricular branch.

Left coronary a.: circumflex branch, anterior interventricular branch, left marginal branch.

Coronary sinus and tributaries: great, middle and small cardiac veins.

Divisions and contents of the mediastinum.

Topographical divisions and dividing planes of the abdominal cavity.

Locations of the abdominal organs in the divisions.

Projection of the abdominal organs onto the abdominal wall.

McBurney's point, and its clinical significance.

Broad abdominal muscles: origins, insertions, functions, innervation.

Inguinal ligaments as anatomical landmark. Inguinal canal.