

ANATOMICAL AND PHYSIOLOGICAL FEATURES OF THE CARDIOVASCULAR SYSTEM

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The aim of the study Analyze anatomical and physiological features of cardiovascular system in relation with its functions.

Materials and methods. Materials are taken from the archives of the department. The study was conducted on the samples in the department of human anatomy.

Obtained results.

1. The walls of the heart are formed by three membranes: the inner connective tissue (endocardium), the average muscle (myocardium), the outer epithelial (epicardium).

2. Outside the heart is surrounded by the flexible sac - pericarditium, which prevents heart hyperinflation when filling with blood. Between the pericardium and the heart is the fluid that reduces friction reduction. It consists of two atria and two ventricles. The left and right sides are separated by a solid wall of the heart.

3. The thickness of the myocardial cells differs depending on the fulfilling task. Atria perform a little work, pumping blood into the ventricles, so they have a very thin muscle layer. The right ventricle pumps the blood through a small circle of blood circulation, that is why its a wall is thicker than the atria`s one. The left ventricle provides blood flow through the systemic circulation, it has the greatest thickness of the myocardium.

4. The heart has a clap valve located between the atria and ventricles, and prevent the blood return in the atria during ventricular contraction. Semilunar valves are located at the exit of vessels from the heart and prevent the return of blood from the blood vessels into the ventricles when they relax.

Conclusions:

Structure of the heart completely corresponds to its function: the myocardium provides the possibility of reductions; a solid septum between the left and right halves of the heart provides separating blood into arterial and venous; a valve system provides blood flow in one direction.

STRUCTURAL FEATURES OF SOME NERVE PLEXUSES OF THE ABDOMINAL CAVITY AT 37-40 WEEKS OF GESTATION FETUSES AND NEWBORN

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The purpose. The problem of detailed studies of the anatomy of the human`s peripheral nervous system, in particular the structural organization of its autonomous