

Assessing Heart and Neck Vessels

Structure and Function

Cardiovascular System

- highly complex, consisting of the heart and a closed system of blood vessels.

Heart and Neck Vessels

Heart:

- a hollow, muscular, four-chambered (left and right atria, and left and right ventricles) organ
- located in the middle of the thoracic cavity between the lungs in the space called the mediastinum.
- size of a clenched fist
- weights:
 - 255 g (9 oz) in women
 - 310 g (10.9 oz) in men
- extends:
 - vertically: left 2nd to the left 5th intercostal space (ICS)
 - horizontally: right edge of the sternum to the left midclavicular line (MCL).
- can be described as an inverted cone.
- upper portion = base
- lower portion = apex
- the anterior chest area that overlies the heart and great vessels is called the precordium
- right side of the heart pumps blood to the lungs for gas exchange (**pulmonary circulation**) by removing CO₂ from blood and replenishing oxygen supply.
 - it occurs between alveoli and the blood of lungs.
- left side of the heart pumps blood to all other parts of the body (**systemic circulation**).
- Perfusion occurs when blood flows to tissues and organs promoting the diffusion of O₂ and CO₂.

Great Vessels:

- large veins and arteries leading directly to and away from the heart
- Superior and Inferior Vena Cava** – return blood to the right atrium from the upper and lower torso.
- Pulmonary Artery** exits the right ventricle, bifurcates, and carries blood to the lungs.
- Pulmonary Veins** (two from each lung) return oxygenated blood to the left atrium.
- Aorta** – transports oxygenated blood from the left ventricle to the body.

Heart Chambers and Valves

Four Chambers, or Cavities:

- two upper chambers, the right and left atria.
- two lower chambers, the right and left ventricles.
- Septum** – a partition that separates the right and left sides of the heart.
- Atria** – thin-walled, receive blood returning to the heart and pump blood into the ventricles.
- Ventricles** – thicker-walled, pump blood out of the heart.

- left ventricle is thicker than the right ventricle because the left side of the heart has a greater workload.

Valves:

- one-way valves that direct the flow of blood through the heart
- protects the entrance and exit of each ventricles.
- Atroventricular (AV) Valves** – located at the entrance to the ventricles
 - Tricuspid Valve** – composed of three cusps, or flaps, and is located between the right atrium and the right ventricle;
 - Bicuspid (mitral) Valve** – composed of two cusps and is located between the left atrium and the left ventricle.
- Chordae Tendinae**
 - collagen fibers, anchor the AV valve flaps to papillary muscles within the ventricles.
- Open AV valves allow blood to flow from the atria into the ventricles.
- As the ventricles begin to contract, AV valves shut, preventing the regurgitation of blood into the atria.
- Valves are prevented from blowing open in the reverse direction (i.e., toward the atria) by their secure anchors to the papillary muscles of the ventricular wall.
- Semilunar Valves** – at the exit of each ventricle at the beginning of the great vessels.
 - at three cusps that look like half-moons, hence "semilunar."
 - Pulmonic Valve** – at the entrance of the pulmonary artery as it exits the right ventricle
 - Aortic Valve** – at the beginning of the ascending aorta as it exits the left ventricle.
- Open during ventricular contraction and close from the pressure of blood when the ventricles relax. Blood is thus prevented from flowing backward into the relaxed ventricles.

Heart Covering and Walls

Epicardium – serous membrane that covers the outer surface of the heart.

Pericardium – a tough, inextensible, loose-fitting, fibroserous sac that attaches to the great vessels and surrounds the heart.

A serous membrane lining, the parietal pericardium, secretes a small amount of pericardial fluid that allows for smooth, friction-free movement of the heart.

Myocardium – thickest layer of the heart, made up of contractile cardiac muscle cells.

Endocardium – thin layer of endothelial tissue that forms the innermost layer of the heart and is continuous with the endothelial lining of blood vessels.

Electrical Conduction of the Heart

- Cardiac muscle cells**
 - have a unique inherent ability

- can spontaneously generate an electrical impulse and conduct it through the heart.
- the generation and conduction of electrical impulses by specialized sections of the myocardium regulate the events associated with cardiac cycle (the filling and emptying of the cardiac chambers).

Pathways:

Sinoatrial (SA) Node (or Sinus Node)

- located on the posterior wall of the right atrium near the junction of the superior and inferior vena cava.
- with inherent rhythmicity, generates impulses (at a rate of 60–100/min) that are conducted over both atria, causing them to contract simultaneously and send blood into the ventricles.
- the current, initiated by the SA node, is conducted across the atria to the AV node
- located in the lower interatrial septum. Slightly delays incoming electrical impulses from the atria and then relays the impulse to the AV Bundle (bundle of His) in the upper interventricular septum.
- Electrical impulse then travels down the right and left bundle branches and the Purkinje fibers in the myocardium of both ventricles, causing them to contract almost simultaneously.

Although the SA node functions as the "pacemaker of the heart," this activity shifts to other areas of the conduction system, such as the **Bundle of His** (with an inherent discharge of 40–60/min), if the SA node cannot function.

Electrical Activity

Electrical impulses

- generated by the SA node
- travel throughout the cardiac conduction circuit
- can be detected on the surface of the skin.

Electrocardiography aka ECG or EKG

- measures and records electrical activity
- records the depolarization and repolarization of the cardiac muscle.
- the phases of the ECG are known as P, Q, R, S, and T.

Cardiac Cycle

Cardiac Cycle

- refers to the filling and emptying of the heart's chambers.
- has two phases:
 - diastole (relaxation of the ventricles, known as filling)
 - systole (contraction of the ventricles, known as emptying).
- Diastole** endures for approximately 2/3 of the cardiac cycle and systole is the remaining 1/3.

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