

# Anatomy and physiology chapter 11 the cardiovascular system answer key

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**What is the figure 11.2 anterior view of the heart?** Figure 11.2. This anterior view of the heart shows the four chambers, the major vessels and their early branches, as well as the valves. The presence of the pulmonary trunk and aorta covers the interatrial septum, and the atrioventricular septum is cut away to show the atrioventricular valves.

**What is a vascular problem that affects many in standing professions?** Prolonged standing can cause veins to overwork and blood may pool in the leg veins, increasing pressure in those veins, causing the valves to become weak and inefficient leading to varicose veins.

**What are the five main parts of the cardiovascular system?** It consists of the heart, which is a muscular pumping device, and a closed system of vessels called arteries, veins, and capillaries.

**What are the 7 functions of the cardiovascular system?**

**What angle is the heart at?** The longitudinal line from the center point of the base of the heart to the point of the apex is called the anatomical axis. Most studies, beginning as early as the 1940s, indicate a normal heart will lie within the thoracic cavity at an angle of about 20 to 40 degrees.

**What organ is anterior to the heart?** Anterior refers to the 'front', and posterior refers to the 'back'. Putting this in context, the heart is posterior to the sternum because it lies behind it. Equally, the sternum is anterior to the heart because it lies in front of it.

**What is a vascular disease of the legs or feet?** This condition also may be called peripheral arterial disease. In PAD, the legs or arms — usually the legs — don't get enough blood flow to keep up with demand. This may cause leg pain when walking, called claudication, and other symptoms.

**What are the main 2 factors that usually cause vascular disease?**

**What is vascular weakness in the legs?** Leg Weakness: A Sign of Peripheral Artery Disease. The cause of leg weakness can be something as simple as overexertion during exercise, but this common symptom can also be a warning sign of peripheral artery disease (PAD) in the lower extremities.

**What carries blood away from the heart?** Arteries carry blood away from the heart and veins carry blood back to the heart. The circulatory system carries oxygen, nutrients, and hormones to cells, and removes waste products, like carbon dioxide.

**What is the largest artery in the body?** The largest artery in the body. It carries oxygen-rich blood away from the heart to vessels that reach the rest of the body.

**Which vein carries oxygenated blood?** Your pulmonary veins are the only veins in your body that carry oxygen-rich blood. All your other veins carry oxygen-poor blood.

**Which system moves blood around the body?** The blood circulatory system (cardiovascular system) delivers nutrients and oxygen to all cells in the body. It consists of the heart and the blood vessels running through the entire body.

**Which component of blood helps fight diseases?** White blood cells (leukocytes). These help fight infections and aid in the immune process.

**What can you do to keep your heart healthy?**

**What is the angle for CPR?** Proper position with the shoulders directly over the point of compression and the rescuer's arms forming a 90° angle with the patient's chest. Introduction Current resuscitation guidelines emphasize a systems approach with a strong emphasis on quality cardiopulmonary resuscitation (CPR).

**What is the temperature of a heart?** In some organs, the temperatures are higher than the average normal core body temperature. For example, the temperature in

the human heart is about 38.8°C and even higher in the liver.

**What are the 4 surfaces of the heart?** The heart has five surfaces: base (posterior), diaphragmatic (inferior), sternocostal (anterior), and left and right pulmonary surfaces.

**What are the 4 chambers of the heart?** The heart has 4 main sections, or "chambers." The top 2 chambers are called the right atrium and left atrium. The bottom 2 chambers are called the right and left ventricles. Each of these chambers has a valve that keeps blood flowing in 1 direction.

**What are the four main arteries of the heart?** They are the left and right coronary arteries: The left coronary artery (LCA) extends along the coronary sulcus and supplies the left portion of the heart. It further branches into the circumflex artery and the anterior interventricular artery (left anterior descending artery).

**What organ is below the heart?** Bottom boundary: The bottom boundary is your diaphragm. This is a dome-shaped muscle that sits just beneath your heart and lungs. Your diaphragm is what separates your thoracic cavity from your abdominal cavity.

**What is the anterior position of the heart?** The dorsal surface of the heart lies near the bodies of the vertebrae, and its anterior surface sits deep to the sternum and costal cartilages.

**What does anterior heart mean?** Anterior means the artery supplies blood to the front portion of your heart. It's the biggest supplier of oxygenated blood to your heart's lower left pumping chamber or ventricle. It also supplies blood to the septum, the muscular tissue that separates the heart walls.

**How can you tell which side of the heart is the anterior view?** It's the primary organ of the circulatory system. The heart have four main chambers made of muscle and powered by electrical impulses. The brain and nervous system influence heart's function. Therefore, The anterior side of the heart is the side the uppermost point or peak is pointing to.

**What is the anterior face of the heart?** Definition. The sternocostal surface (Anterior surface) is directed forward, upward, and to the left. Its lower part is

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convex, formed chiefly by the right ventricle, and traversed near its left margin by the anterior longitudinal sulcus.

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