

MAMMALIAN HEART

Examine the external features of the heart. Try to identify as many of the attached arteries and veins as you can.



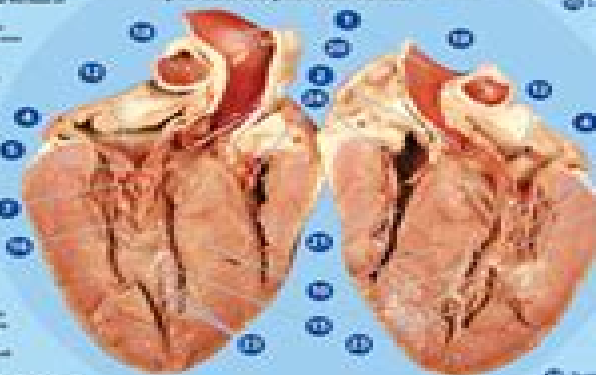
- 1 Aorta
- 2 Aortic valve*
- 3 Apex
- 4 Atrial appendage
- 5 Bicuspid valve*
- 6 Bradycardiacally thick
- 7 Chordae tendineae*
- 8 Coronary sulcus
- 9 Inferior vena cava
- 10 Interventricular septum*
- 11 Interventricular sulcus
- 12 Left atrium
- 13 Left coronary canted artery
- 14 Left subclavian artery
- 15 Left ventricle
- 16 Papillary muscles*
- 17 Pulmonary artery
- 18 Pulmonary trunk
- 19 Pulmonary veins
- 20 Right atrium
- 21 Right ventricle
- 22 Superior vena cava
- 23 Trabecular column*
- 24 Tricuspid valve*
- 25 Moderator band

Open the heart with a longitudinal cut, beginning below the left atrium.

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- 1 Aorta, artery that carries oxygenated blood from the left ventricle (large, curved artery is attached to a ventricle)
- 2 Aortic valve, valve that opens to allow blood to enter from the left ventricle and close to prevent backflow
- 3 Apex, the inferiorly pointed end of the heart, at the base of the ventricles
- 4 Atrial appendage, projection from the outer chamber of each atrium before an artery (they are a portion of the atrium also referred to as auricles)
- 5 Bicuspid valve, interventricular blood vessel and left ventricle, opens during flow from atrium into ventricle and closes during ventricular contraction (also known as mitral valve or left atrioventricular valve)
- 6 Bradycardiacally thick, large muscle from the ventricle trunk immediately branches into the right coronary artery and left coronary arteries
- 7 Chordae tendineae, fibrous cords connecting the atrioventricular valves to the papillary muscles in the ventricles (they help hold the valves closed during the force of the ventricular contraction)
- 8 Coronary sulcus, furrow groove that delineates the area from the ventricles (carries some of the blood vessels for the heart muscle itself, also called the coronary sulcus)
- 9 Inferior vena cava, the largest vein carries deoxygenated blood to the left atrium from the portion of the body closer to the heart
- 10 Interventricular septum, the muscular wall between the left and right ventricles
- 11 Interventricular sulcus, furrow groove that marks the border between the ventricles (the anterior and posterior sulci contain a bundle from the coronary arteries, which supply the heart muscle with blood)
- 12 Left atrium, chamber that carries oxygenated blood from the lungs through the pulmonary vein

Examine the internal features of the heart. Try to trace the path of the blood.



- 13 Left coronary canted artery, blood from the aorta trunk that supplies part of the wall and heart
- 14 Left subclavian artery, blood from the aorta trunk that supplies upper limbs and head
- 15 Left ventricle, the most substantial chamber that pumps blood systematically through the aorta
- 16 Papillary muscles, muscles on the inner wall of each ventricle (they attach to the chordae tendineae and prevent it from the chamber without the atrioventricular valve tightly shut when the ventricle contracts)
- 17 Pulmonary artery, one of two main branches from the pulmonary trunk (right and left)
- 18 Pulmonary trunk, large artery that carries the right ventricle and immediately splits into left and right pulmonary artery, each carrying deoxygenated blood to the lung
- 19 Pulmonary veins, four that carry oxygenated blood from the lungs to the left atrium
- 20 Right atrium, chamber that receives deoxygenated blood from the body through the venae cavae
- 21 Right ventricle, the chamber that pumps deoxygenated blood through the pulmonary artery to the lungs
- 22 Superior vena cava, large vein that carries blood from the portion of the body closest to the heart to the atrium (usually called cranial vena cava)
- 23 Trabecular column, bundle of muscle fibers projecting from the wall of the ventricle
- 24 Tricuspid valve, valve between the right atrium and the right ventricle (opens during flow from atrium into ventricle and closes during ventricular contraction, also known as the right atrioventricular valve)

Carolina Heart Dissection Guide

James George Needham



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