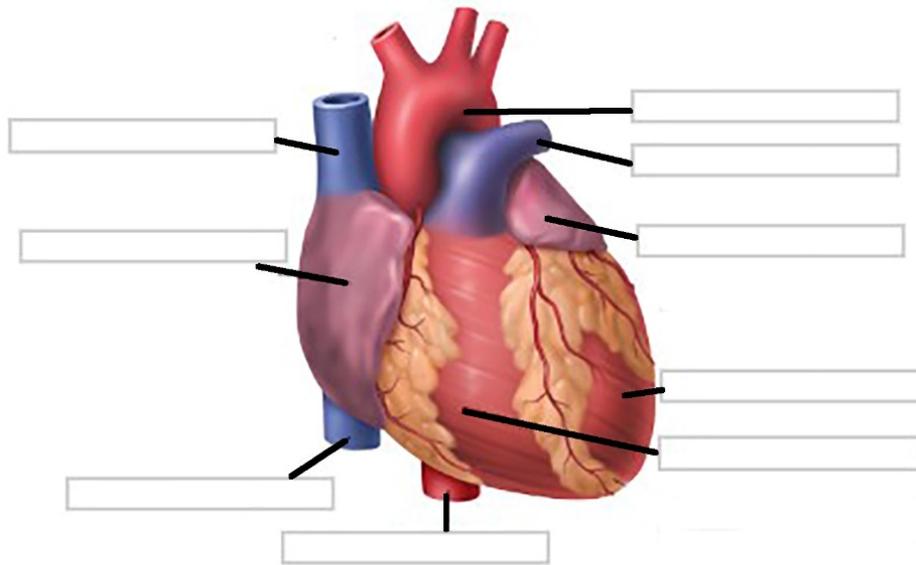


The Heart and the Cardiac Cycle

Read Chapter 18.3-18.4

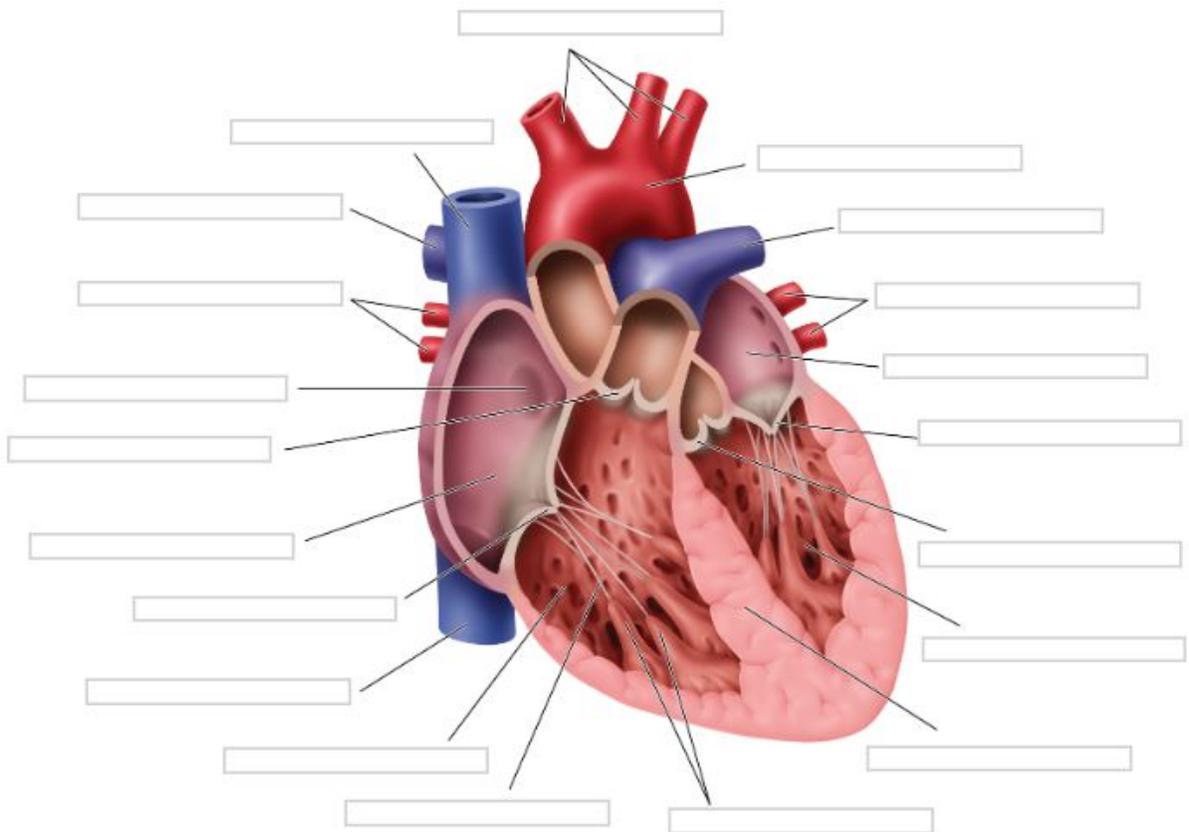
Fill in the blanks

1. The heart is located superior to the diaphragm in the thoracic cavity in the region called the _____.
2. Label the diagram: Superior vena cava, inferior vena cava, right atrium, left atrium, right ventricle, left ventricle, aortic arch, descending aorta, pulmonary artery



3. The heart muscle itself is supplied with blood via the _____ arteries.
4. _____ carry blood to the heart.
5. _____ carry blood away from the heart.
6. The pulmonary _____ carry oxygenated blood.
7. The pulmonary _____ carry deoxygenated blood.
8. If someone has a heart attack that is caused by a fully blocked coronary artery, a _____ surgery can be done.
9. The outermost layer of connective tissue surrounding the heart is the _____.
10. The _____ is the visceral pleura

11. The inner most cardiac wall layer that lines the heart chambers and blood vessels is the _____.
12. The space between the two layers is called the _____ and is filled with _____.
13. The heart muscle layer is called the _____.
14. Label the diagram: Superior vena cava, inferior vena cava, right atrium, left atrium, right ventricle, left ventricle, aorta, arteries, right pulmonary artery, left pulmonary artery, right pulmonary veins, left pulmonary veins, interventricular septum, papillary muscles, chordae tendineae, fossa ovalis, right AV valve, left AV valve, aortic semilunar valve, pulmonary semilunar valve



15. The interatrial septum contains a shallow depression called the _____, which is a remnant of a fetal structure called the foramen ovale.
16. The right AV valve is also called the _____.

17. The left AV valve is also called the _____.
18. The first heart sound is caused by the closing of the _____ valves.
19. The second heart sound is caused by the closing of the _____ valves.
20. If a valve does not close fully, blood can leak back into the atria or ventricles causing a sloshing sound called a heart _____.
21. Put the following blood vessels in the correct order starting with the right atrium as #1:
 - a. Right atrium _____
 - b. Pulmonary artery _____
 - c. Bicuspid valve _____
 - d. Pulmonary Vein _____
 - e. Left atrium _____
 - f. Right ventricle _____
 - g. Pulmonary semilunar valve _____
22. The amount of blood pumped out of the left ventricle with each heart contraction is called the _____.
23. An average adult has approximately _____ L of total blood volume
24. _____ means contraction
25. _____ means relaxation