

Cardiology Exam Study Guide

1. Describe the blood flow through the heart, including the chambers, pulmonary circulation, and valves.
2. List the layers of the heart tissue.
3. Explain the steps in Cardiopulmonary Resuscitation (CPR) including the parameters for chest compressions and ventilation in adults, children, and infants.
4. Explain the steps of operating an Automated External Defibrillator (AED).
5. List the cardiac rhythms commonly associated with cardiac arrest.
6. List the cardiac rhythms which an AED will shock.
7. Describe the indications for oxygen administration in a patient suffering from chest pain.
8. Describe the mechanism of action, indications, side effects, and contraindications for aspirin administration in a patient suffering from chest pain.
9. Describe the mechanism of action, indications, side effects, and contraindications for nitroglycerine administration in a patient suffering from chest pain.
10. Describe the steps of the primary assessment including treatment that would need to be taken.
11. Define diastole and systole and contrast the two.
12. Describe the signs and symptoms of a patient suffering from myocardial infarction.
13. List the common risk factors for myocardial infarction.
14. Define acute coronary syndrome.
15. Contrast stable and unstable angina.
16. Describe the signs and symptoms of a patient suffering from an aortic dissection.
17. Describe the signs and symptoms of a patient suffering from angina pectoris.
18. Describe the signs and symptoms of a patient suffering from cardiac tamponade.
19. Contrast the signs and symptoms of a patient suffering from congestive heart failure and chronic obstructive pulmonary disease.
20. Describe the signs and symptoms of a patient suffering from cardiogenic shock.
21. Contrast the signs and symptoms of a patient suffering from left-sided heart failure and right-sided heart failure.
22. Define a hypertensive crisis and describe the signs and symptoms of a patient suffering from it.