EMT Chapter 14 Cardiovascular Emergencies

1. We can help to reduce deaths with better \_\_\_\_\_\_\_\_\_\_\_\_ awareness, \_\_\_\_\_\_\_\_\_\_\_ access, increased numbers of \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ trained in \_\_\_\_\_\_\_\_\_\_, public access to \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_, and the recognition for need of \_\_\_\_\_\_\_\_\_\_\_ services.

2. What does the atrium do? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. What does the ventricle do? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. The aorta, the body’s main \_\_\_\_\_\_\_\_\_\_\_\_\_\_, receives the blood \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and delivers it to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ so they can carry blood to the tissues of the \_\_\_\_\_\_\_\_\_\_\_\_\_.

5. The \_\_\_\_\_\_\_\_\_\_\_\_ side of the heart receives oxygen-poor blood from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

6. The\_\_\_\_\_\_\_\_\_\_\_\_ of the heart pumps out oxygen-rich blood into the \_\_\_\_\_\_\_\_\_\_\_\_.

7. Physiology of the heart:

Number the 12 steps in order.

a. \_\_\_\_ Blood fills the right ventricle.

b. \_\_\_\_ Blood from the vena cava enters the heart.

c. \_\_\_\_ Oxygen becomes oxygenated in the alveoli.

d. \_\_\_\_ Blood is pumped to the arterioles.

e. \_\_\_\_ Blood travels through the pulmonary veins.

f. \_\_\_\_ Blood enters the left atrium.

g. \_\_\_\_ Blood becomes deoxygenated (this is not first)

h. \_\_\_\_ Blood enters the left ventricle.

i. \_\_\_\_ Blood circulates in the lungs.

j. \_\_\_\_ Blood fills the right atrium.

k. \_\_\_\_ Blood is pumped through the aorta.

l. \_\_\_\_ Blood flows into the pulmonary artery.

8. What is the role of the alveoli referring to blood circulation? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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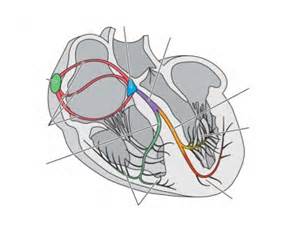
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9. Which side of the heart is more muscular? Why does it need to be?

10. The \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ system of the heart controls most aspects of the \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ and enables the \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ to work together.

11. What is automaticity? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12.

a.

b.

i. c.

d. e.

f.

g. h.

13. Nervous system that increases the heart rate, respiratory rate and depth; dilates blood vessels in the muscles.

a. Autonomic nervous system

b. Sympathetic nervous system

c. Parasympathetic nervous system

d. Cardiac nervous system

14. Nervous system that does not require conscious thought and has two parts:

a. Autonomic nervous system

b. Sympathetic nervous system

c. Parasympathetic nervous system

d. Cardiac nervous system

15. Nervous system that constricts blood vessels in the digestive system:

a. Autonomic nervous system

b. Sympathetic nervous system

c. Parasympathetic nervous system

d. Cardiac nervous system

16. Nervous system that decreases the heart rate and respiratory rate; constricts the blood vessels in the muscles:

a. Autonomic nervous system

b. Sympathetic nervous system

c. Parasympathetic nervous system

d. Cardiac nervous system

17. Nervous system that dilates the blood vessels in the digestive system:

a. Autonomic nervous system

b. Sympathetic nervous system

c. Parasympathetic nervous system

d. Cardiac nervous system

18. In times of stress, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ nervous system gains primary control, whereas in times of relaxation, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ nervous system takes control.

Matching:

19. Aortic valve a. The blood vessels that carry blood and nutrients to the heart

muscle.

20. Cardiac output b. One of two lower chambers of the heart.

21. Coronary arteries c. The on-way valve that lies between the left ventricle and the

aorta and keeps blood flow from flowing back into the left

ventricle.

22. Lumen d. One of two upper chambers of the heart.

23. Myocardium e. The amount of blood pumped out of the left ventricle in 1

minute.

24. Perfusion f. The number of times the heart contracts in 1 minute.

25. Stroke volume g. Widening of a tubular structure.

cardiac cycle.

26. Heart rate h. The flow of blood through body tissues and vessels.

27. Dilation i. The inside diameter of an artery or other hollow structure.

28. Ventricle j. The volume of blood pumped out of the left ventricle in 1

29. Atrium k. The heart muscle

30. List the common pulse points (6 listed): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

31. Ischemia is decreased \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Because of partial or complete \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of blood flow through the coronary \_\_\_\_\_\_\_\_\_\_\_\_\_, the heart tissue fails to get enough\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Matching:

32. Dependent edema a. The complete absence of heart electrical activity.

33. Acute myocardial infarction (AMI) b. An irregular or abnormal heart rhythm.

34. Angina pectoris c. A term used to describe a group of symptoms

caused by myocardial ischemia.

35. Congestive heart failure (CHF) d. A slow heart rate of less than 30 beats/minute.

36. Arrhythmia e. The heart fails to generate effectively; pulse is

not palpable even if electrical activity continues.

37. Asystole f. A blockage.

38. Atherosclerosis g. A state where there is not enough oxygen

delivered to the tissues of the body, caused by

low output of blood from the heart.

39. Bradycardia h. Death of a body tissue.

40. Cardiac arrest i. Swelling in body closest to the ground, caused by

collection of fluid in the tissues.

41. Cardiogenic shock j. Excessively high blood pressure.

42. Acute coronary syndrome k. A condition in which the heart loses it’s ability to effectively pump blood, usually as a result of

damage to the heart muscle.

43. Hypertensive emergency l. A blood clot that has formed within a blood vessel

and is floating with in the blood stream.

44. Ischemia m. Death of heart muscle following obstruction of

blood flow to it.

45. Infarction n. Fainting; temporary loss of consciousness

46. Ventricular tachycardia o. Cholesterol and calcium build up inside the walls

of blood vessels, leading to blockage.

47. Thromboembolism p. A rapid heart rate of more than 100 beats minute.

48. Occlusion q. A lack of oxygen that deprives tissues of

necessary nutrients, resulting from partial or

complete blockage of blood flow.

49. Syncope r. Short-lived chest discomfort caused by partial or

temporary blockage of blood flow to the heart

muscle.

50. Tachycardia s. A rapid heart rhythm in which the electrical

impulse begins in the ventricle instead of the

atrium, which may result in inadequate blood

flow.

51. Difference between a dissecting aneurysm and an aortic aneurysm:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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52. Difference between angina and myocardial infarction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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53. Ventricular fibrillation is the disorganized, ineffective \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the\_\_\_\_\_\_\_\_\_\_\_\_\_\_, resulting in no \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and state of cardiac arrest.

54. A person in cardiac arrest can be treated by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to restore a normal rhythmic heartbeat.

55. The inner wall of an artery in normally \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_ elastic, but becomes \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_ with atherosclerosis plaque.

56. The major controllable risk factors for acute myocardial infarction are: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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57. The major uncontrollable factors for AMI are: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

58. Acute coronary syndrome can be a temporary situation known as \_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_, or a more serious condition, an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

59. Anginal pain is described as \_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, or “\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_”.

60. List the different signs and symptoms of acute myocardial infarction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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61. Between angina and AMI, which might not be relieved by nitroglycerin? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

62. What is it called when skin has a bluish tint? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

63. When documenting how a patient is feeling, should you use medical language or the patient’s own words? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

64. Shock is present when \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

65. With cardiogenic shock, the problem is that the heart lacks the\_\_\_\_\_\_\_\_\_\_\_\_ to\_\_\_\_\_\_\_\_\_\_\_

the proper volume of \_\_\_\_\_\_\_\_\_\_\_\_ through the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ system.

66. Congestive heart failure occurs when the heart can no longer keep up with the \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of blood from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

67. What might you hear upon auscultation with a patient with Congestive heart failure?

68. Why is congested heart failure called “congested”? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

69. For what condition besides angina and AMI could nitroglycerin be useful if the patient’s blood pressure is higher than 100 mm Hg? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

70. Hypertension is defined as any systolic blood pressure greater than\_\_\_\_\_\_\_\_\_\_ mm Hg or a diastolic blood pressure greater than \_\_\_\_\_\_\_\_\_\_ mm Hg

71. What are 6 differences between AMI and a dissecting aneurysm? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

72. Patient experiencing pulmonary edema or CHF (Congestive heart failure) may require \_\_\_\_\_\_\_\_\_\_\_\_\_\_-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ventilation with a bag-mask or continuous positive airway pressure, \_\_\_\_\_\_\_\_\_\_\_\_\_.

73. Athletes may have a \_\_\_\_\_\_\_\_\_\_\_\_ heart rate as a normal physiologic change. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a normal physiologic response to \_\_\_\_\_\_\_\_\_\_\_\_ to ensure adequate tissue perfusion.

74. Low-dose aspirin comes in \_\_\_\_\_\_\_\_\_\_mg \_\_\_\_\_\_\_\_\_\_\_tablets. The recommended dose is \_\_\_\_\_\_\_\_mg (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) to \_\_\_\_\_\_\_\_\_\_mg (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_).

75. What is the action of Nitroglycerin? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

76. Nitroglycerin that has not expired should give experience of: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

77. What should you do before administering nitroglycerin? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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78. List some contraindications of nitroglycerin: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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79. During what circumstances should you remove a nitroglycerin patch on a patient? \_\_\_\_\_\_\_\_\_

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80. Many people with heart disease in the United States have \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to maintain a regular cardiac \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

81. If a pace maker does not function properly, the patient make experience \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ because of an excessively slow heart rate.

82. A patient with an automatic implantable cardiac defibrillator who is experiencing an AMI or cardiac arrest should be treated like all other patients with an AMI. **True or False**?

83. What is the advantage of biphasic shock? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

84. When can errors occur with an AED? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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85. As a safety measure, the patient should not be laying on \_\_\_\_\_\_\_\_\_\_\_\_ ground or touching

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_objects when being shocked.

86. What are the 5 links in the chain of survival? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

87. Defibrillation works best if it takes place within \_\_\_\_\_\_\_\_ minutes of the onset of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_.

88. In some older patients with angina or AMI, particularly people with diabetes, chest pain is \_\_\_\_\_\_\_\_\_\_\_\_\_.

89. For a patient in cardiac arrest during transport, you should: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

90. If the patient has an implanted pacemaker or and internal defibrillator in the same area where the AED pads go, what should you do? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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