



# QUIZ Time

anatomy 18

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## ANATOMY 18

### Pericardium & Heart

1. Which of the following most accurately explains the functional significance of the fibrous pericardium's attachment to the central tendon of the diaphragm?

- A. It enables pericardial fluid recycling during respiration
- B. It stabilizes cardiac output during diaphragmatic contraction
- C. It ensures synchronous movement of the heart and diaphragm during respiration
- D. It prevents spread of infection from the diaphragm to the heart

Correct Answer: C

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2. A knife wound transects the sternopericardial ligaments. Which consequence is most likely?

- A. Increased risk of pericardial effusion
- B. Loss of cardiac position stability in the thorax
- C. Occlusion of coronary arteries
- D. Collapse of the pericardial cavity

Correct Answer: B

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3. Which of the following correctly pairs a heart surface with its predominant anatomical component?

- A. Diaphragmatic surface - right atrium
- B. Left pulmonary surface - left atrium
- C. Anterior surface - left ventricle
- D. Right pulmonary surface - right atrium

Correct Answer: D

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4. During cardiac surgery, a structure closely associated with the visceral layer of the serous pericardium is encountered. Which of the following is true?

- A. It lines the inner fibrous pericardium
- B. It is synonymous with the endocardium
- C. It is also known as the epicardium
- D. It creates the pericardial fluid

Correct Answer: C

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5. Why is pericardial effusion particularly dangerous if the fibrous pericardium remains intact?

- A. It allows fluid to enter the atria
- B. The non-elastic pericardium limits expansion, compressing the heart
- C. It leads to pulmonary embolism
- D. It increases venous return to the right atrium

Correct Answer: B



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6. The apex beat is best auscultated at which anatomical location?

- A. 2nd left intercostal space
- B. 4th right intercostal space, midclavicular line
- C. 5th left intercostal space, midclavicular line
- D. 6th left costal cartilage

Correct Answer: C

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7. In a CT scan, the heart appears predominantly left of the median plane. Which statement best explains this?

- A. The left atrium is hypertrophied
- B. The pericardium fuses with the descending aorta
- C. Two-thirds of the heart lies left of the midline by normal orientation
- D. The aortic arch pulls the heart to the left

Correct Answer: C

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8. The left coronary artery typically does not supply which of the following?

- A. Left atrium
- B. Interventricular septum
- C. Posterior third of the right ventricle
- D. Apex of the heart

Correct Answer: C

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9. Which statement best distinguishes the origin of the coronary arteries?

- A. They are derived from pulmonary trunk
- B. They are branches of the internal thoracic artery
- C. They arise from the coronary sinus
- D. They originate from the aortic sinuses just above the aortic valve

Correct Answer: D

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10. On auscultation, a "lub" sound is detected. What event has just occurred?

- A. Ejection of blood into great arteries
- B. Filling of atria
- C. Closure of tricuspid and mitral valves
- D. Opening of semilunar valves

Correct Answer: C

