

# Latest AE-Adult-Echocardiography Braindumps Questions & AE-Adult-Echocardiography Exam Quick Prep

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## **ADULT ECHOCARDIOGRAPHY EXAM Questions with 100% Verified Answers Latest Version 2025 Graded A+**

A 38-year-old male is taken to the lab for assessment after complaining of severe dyspnea with exertion for two months. M-mode observations include dilated LV, increased E point to septal separation (EPSS), a B-notch on the MV, and hypo contractile LV wall motion. What form of heart problem do these results indicate? - ANSWER Dilated cardiomyopathy.

After a chest x-ray revealed cardiomegaly, a 58-year-old female with a primary symptom of increased dyspnea with exertion is referred for an echo. The echocardiogram shows LV hypertrophy with a "bright" myocardial appearance, LA enlargement, and a modest pericardial effusion. What's the most likely heart diagnosis for this patient? - ANSWER Infiltrative (restrictive) cardiomyopathy.

A 56-year-old female goes to her doctor with a complaint of SOB. Physical examination reveals a low-frequency diastolic (rumbling) murmur. The patient denies any prior history of rheumatic fever. Which three cardiac abnormalities might be present in this patient? - Answer: Mitral stenosis.

- LA Myxomas
- Aortic regurgitation.

A 31-year-old man with a history of uncontrolled systemic hypertension arrives at the emergency room with acute chest pain that he describes as "ripping". What's the most likely heart diagnosis for this patient?

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Learning knowledge is not only to increase the knowledge reserve, but also to understand how to apply it, and to carry out the theories and principles that have been learned into the specific answer environment. Studying for attending AE Adult Echocardiography Examination exam pays attention to the method. The good method often can bring the result with half the effort, therefore we in the examination time, and also should know some test-taking skill. The AE-Adult-Echocardiography Quiz guide on the basis of summarizing the past years, found that many of the questions, the answers have certain rules can be found, either subjective or objective questions, we can find in the corresponding module of similar things in common.

### ARDMS AE Adult Echocardiography Examination Sample Questions (Q79-Q84):

#### NEW QUESTION # 79

Which type of defect can be seen in this video clip?



- A. Ischemic ventricular septal defect
- B. Pseudoaneurysm of the apex
- C. Tricuspid regurgitation
- D. Coronary artery aneurysm

**Answer: A**

Explanation:

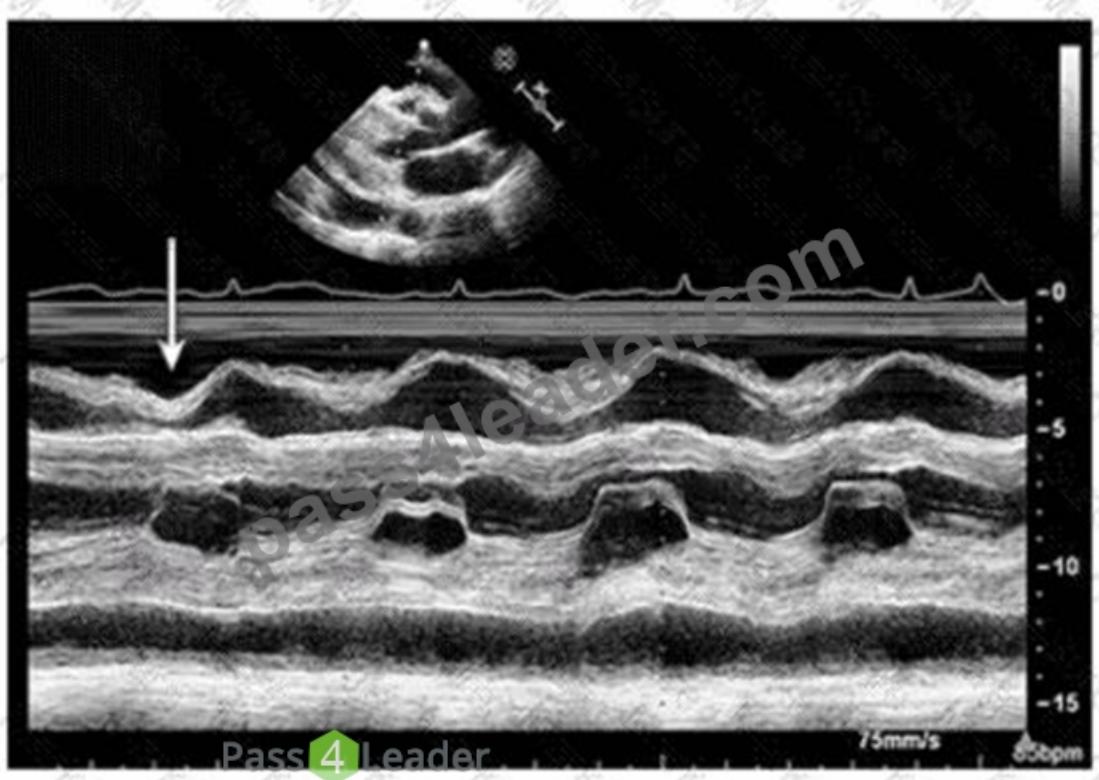
The echocardiographic video shows a defect in the ventricular septum with left-to-right shunting consistent with an ischemic ventricular septal defect (VSD), a mechanical complication of myocardial infarction. The defect allows blood flow between the left and right ventricles.

Coronary artery aneurysm appears as dilated coronary vessels, not a septal defect. Tricuspid regurgitation involves the right atrioventricular valve and is identified differently. Pseudoaneurysm of the apex is a contained myocardial rupture with narrow neck and does not involve septal communication.

This complication and its echocardiographic features are described in the "Textbook of Clinical Echocardiography, 6e", Chapter on Post-Infarction Mechanical Complications#20:430-435Textbook of Clinical Echocardiography#.

### NEW QUESTION # 80

Which condition is most plausible based on the finding indicated by the arrow on this image?



- A. Constrictive pericarditis
- B. Cardiac tamponade
- C. Pulmonary hypertension
- D. Pulmonary embolism

**Answer: A**

Explanation:

The image is a parasternal long axis M-mode echocardiographic tracing demonstrating the interventricular septum and posterior left ventricular wall. The arrow points to the septal "bounce" or "shudder," which is an abnormal early diastolic septal motion.

This septal bounce is a classic echocardiographic finding in constrictive pericarditis, caused by rapid early diastolic filling with abrupt cessation due to pericardial constraint, resulting in paradoxical septal motion.

Cardiac tamponade usually shows pericardial effusion with chamber collapse but not septal bounce.

Pulmonary embolism and pulmonary hypertension have different echocardiographic signs such as right ventricular dilatation and pressure overload but no septal bounce.

These features are well described in the "Textbook of Clinical Echocardiography" and ASE pericardial disease guidelines#16:Textbook of Clinical Echocardiography, 6ep.280-285##12:ASE Pericardial Disease Guidelinesp.300-305#.

### NEW QUESTION # 81

Sinus of Valsalva aneurysms most commonly rupture into which structure(s)?

- A. Right heart chambers
- B. Coronary sinus
- C. Pericardial space
- D. Left atrium

**Answer: A**

Explanation:

Sinus of Valsalva aneurysms typically rupture into the right heart chambers, most commonly the right atrium or right ventricle. This creates a left-to-right shunt and can lead to volume overload and heart failure if not treated.

Rupture into the pericardial space is less common and may cause tamponade. Rupture into the left atrium or coronary sinus is rare. This clinical detail is described in the "Textbook of Clinical Echocardiography, 6e", Chapter on Aortic Root Pathology and Sinus of

### NEW QUESTION # 82

Which two-dimensional method is recommended for assessing left ventricular ejection fraction when regional wall motion abnormalities are present?

- A. Tetcholz
- B. Visual
- C. Quinones
- D. **Simpson biplane**

#### Answer: D

Explanation:

The Simpson biplane method (method of disks) is the recommended two-dimensional echocardiographic technique to quantify left ventricular ejection fraction (LVEF), especially when regional wall motion abnormalities are present. It involves tracing endocardial borders in apical two- and four-chamber views to calculate LV volumes and EF, accounting for segmental dysfunction.

Visual estimation is subjective and less accurate. The Quinones method (single plane area-length) and Teichholz method rely on geometric assumptions and are less accurate in abnormal ventricles.

ASE chamber quantification guidelines strongly endorse Simpson biplane for LVEF assessment in regional wall motion abnormalities#12:ASE Chamber Quantification Guidelinesp.70-75##16:Textbook of Clinical Echocardiography, 6ep.60-65#.

### NEW QUESTION # 83

Which sonographic views allow visualization of a patent ductus arteriosus (PDA)?

- A. **Suprasternal notch and basal parasternal short axis**
- B. Parasternal long axis and apical five-chamber
- C. Parasternal long axis and apical long axis
- D. Basal parasternal short axis and right ventricular inflow tract

#### Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Visualization of a patent ductus arteriosus (PDA) typically requires imaging planes that include the aortic arch and pulmonary artery, which are well seen from the suprasternal notch window and the basal parasternal short axis view.

The suprasternal notch window provides a longitudinal view of the aortic arch and adjacent pulmonary artery, where the PDA is located. The basal parasternal short axis at the level of the great vessels can also visualize flow through the PDA using color Doppler.

Other views like parasternal long axis and apical views are less optimal for direct PDA visualization.

This is detailed in the "Textbook of Clinical Echocardiography, 6e", Chapter on Congenital Heart Defects and PDA Imaging#20:370-375Textbook of Clinical Echocardiography#.

### NEW QUESTION # 84

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