

Quiz Perfect ARDMS - Actual AE-Adult-Echocardiography Test Answers

ARDMS Adult Echo CTL Exam Anatomy Part 1

Questions & Answers

1. What aortic cusp is indicated by #4 on the image?

A: right

B: left

C: non

D: anterior

Answer: C: non



2. When the right ventricular pressure drops below the right atrial pressure, what happens?

A: pulmonic valve opens

B: tricuspid valve opens

C: blood flows into the coronary arteries

D: right atrium collapses

Answer: B: tricuspid valve opens

3. Which fetal cardiac shunt usually closes first after birth?

A: They all close simultaneously as the baby takes its first breath.

B: ductus venosus

C: foramen ovale

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ARDMS AE-Adult-Echocardiography Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> • Pathology: This section of the exam measures skills of adult echocardiography technicians and focuses on identifying and evaluating abnormal physiology and perfusion and postoperative conditions. It includes assessment of ventricular aneurysms, aortic and valve abnormalities, arrhythmias, cardiac masses, diastolic dysfunction, endocarditis, ischemic diseases, cardiomyopathies, congenital anomalies, and postoperative valve repair or replacement and intracardiac devices. Candidates must demonstrate ability to recognize abnormal Doppler signals, EKG changes, wall motion abnormalities, and a wide range of cardiac pathologies including pulmonary hypertension and septal defects.
Topic 2	<ul style="list-style-type: none"> • Measurement Techniques, Maneuvers, and Sonographic Views: This section of the exam measures skills of adult echocardiography technicians in performing accurate cardiac measurements, conducting provocative maneuvers, and obtaining optimized sonographic imaging views. It involves applying 2D, 3D, M-mode, and Doppler techniques to measure heart valves, chambers, and vessels, including the aortic valve, mitral valve, left and right ventricles, atria, pulmonary artery, and shunt ratios. Candidates must instruct patients in maneuvers such as Valsalva, cough, sniff, and squat. They should also be proficient in acquiring standard echocardiographic views including apical, parasternal, subcostal, and suprasternal notch views.
Topic 3	<ul style="list-style-type: none"> • Clinical Care and Safety: This section of the exam measures skills of adult echocardiography technicians in applying clinical care principles and safety protocols. It includes evaluating patient history and external data, preparing patients including fasting state and intravenous line management, proper patient positioning, EKG lead placement, blood pressure measurement, and ergonomic techniques. Candidates are expected to identify critical echocardiographic findings, know contraindications for procedures, and be able to respond and manage medical emergencies that may arise during echocardiographic exams.
Topic 4	<ul style="list-style-type: none"> • Anatomy and Physiology: This section of the exam measures skills of adult echocardiography technicians and covers knowledge and abilities related to normal cardiac anatomy and physiology. It includes assessing great vessels like the aorta and pulmonary arteries, recognizing anatomic variants of the heart, and evaluating cardiac chambers, pericardium, valve structures, and vessels of arterial and venous return. Candidates must document normal systolic and diastolic function, normal valve function and measurements, the phases of the cardiac cycle, normal Doppler changes with respiration, and appearance of arterial and venous waveforms. This also involves assessing the normal hemodynamic response to stress testing and maneuvers such as Valsalva, respiratory, handgrip, and postural changes.
Topic 5	<ul style="list-style-type: none"> • Instrumentation, Optimization, and Contrast: This section of the exam measures skills of adult echocardiography technicians related to use and optimization of ultrasound instrumentation and the application of contrast agents. Candidates should recognize imaging artifacts, utilize non-imaging transducers, and adjust ultrasound console settings for optimal imaging and Doppler recordings. Knowledge of harmonic imaging, principles of contrast agents, and the safe and effective use of saline and echo-enhancing contrast agents is essential. Candidates must also be able to optimize images when using contrast agents to ensure diagnostic quality.

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ARDMS AE Adult Echocardiography Examination Sample Questions (Q32-Q37):

NEW QUESTION # 32

Which finding occurs initially as the severity of aortic stenosis progresses?

- A. Global systolic dysfunction
- **B. Concentric remodeling**
- C. Concentric hypertrophy
- D. Eccentric hypertrophy

Answer: B

Explanation:

In the early stages of aortic stenosis, the left ventricle adapts to increased afterload by concentric remodeling, which is characterized by increased wall thickness without a proportional increase in chamber size. This adaptation helps normalize wall stress.

As the disease progresses, concentric hypertrophy develops with thickened walls and decreased compliance.

Eccentric hypertrophy and global systolic dysfunction occur later with decompensation and ventricular dilation.

This progression is explained in the "Textbook of Clinical Echocardiography, 6e", Chapter on Left Ventricular Adaptations to Pressure Overload#20:365-370Textbook of Clinical Echocardiography#.

NEW QUESTION # 33

Which hepatic vein flow pattern signals severe tricuspid regurgitation?

- A. Flow reversal in diastole
- B. Biphasic flow reversal in diastole
- C. Atrial flow reversal in systole
- **D. Flow reversal in systole**

Answer: D

Explanation:

In severe tricuspid regurgitation (TR), the regurgitant jet flows back from the right ventricle into the right atrium during systole, causing reversal of flow in the hepatic veins during the same phase. On Doppler echocardiography, this manifests as systolic flow reversal in the hepatic veins, which is a hallmark sign of severe TR.

Normally, hepatic vein flow consists of a predominant systolic forward flow into the right atrium. However, in severe TR, the high pressure in the right atrium during systole causes retrograde flow in the hepatic veins.

This pattern is diagnostic and aids in severity assessment.

Diastolic flow reversal is uncommon in TR and more associated with other pathologies. Atrial flow reversal in systole or biphasic flow reversal in diastole are not recognized patterns for severe TR.

This is described in detail in the "Textbook of Clinical Echocardiography, 6e", Chapter on Right Heart and Tricuspid Valve Disease, with Doppler patterns illustrated for hepatic vein flow in tricuspid regurgitation#20:330-335Textbook of Clinical Echocardiography#.

NEW QUESTION # 34

Which of the following conditions will increase in severity with Valsalva maneuver?

- **A. Hypertrophic obstructive cardiomyopathy**
- B. Aortic valve regurgitation
- C. Mitral valve regurgitation
- D. Aortic valve stenosis

Answer: A

Explanation:

The Valsalva maneuver decreases preload and left ventricular volume, which exacerbates left ventricular outflow tract obstruction in hypertrophic obstructive cardiomyopathy (HOCM). This results in an increase in the gradient and severity of obstruction and symptoms during the maneuver.

Aortic valve stenosis, aortic regurgitation, and mitral regurgitation typically decrease or do not significantly change during Valsalva because of decreased flow and pressure.

This physiological response is detailed in the "Textbook of Clinical Echocardiography, 6e", Chapter on Dynamic Left Ventricular Outflow Obstruction and Maneuvers#20:370-375Textbook of Clinical Echocardiography#.

NEW QUESTION # 35

Which view is best for assessing atrial situs in the presence of congenital heart disease?

- A. Subcostal
- B. Long axis
- C. Short axis
- D. Suprasternal notch

Answer: A

Explanation:

The subcostal view is the preferred transthoracic echocardiographic window to assess atrial situs, especially in congenital heart disease. This view provides a cross-sectional look at the abdominal organs and atrial chambers, helping determine the relative position of the inferior vena cava and aorta, which aids in defining atrial situs (solitus, inversus, or ambiguous).

Short axis and long axis views provide excellent cardiac anatomy but are less informative for visceral situs.

The suprasternal notch window is mainly used to visualize the great vessels but does not provide adequate assessment of atrial situs.

The subcostal view's ability to demonstrate abdominal situs and systemic venous return makes it essential in congenital cardiac evaluations and is recommended in echocardiography protocols for congenital heart disease assessment .

NEW QUESTION # 36

Which structure is the arrow pointing to in this video?

- A. Left atrial appendage
- B. Left lower pulmonary vein
- C. Coronary sinus
- D. Descending aorta

Answer: C

Explanation:

The arrow points to the coronary sinus, which is a venous structure located posteriorly in the atrioventricular groove, emptying into the right atrium. It appears as a circular anechoic structure near the left atrium in echocardiographic images.

Left lower pulmonary vein enters the left atrium more superiorly. Descending aorta is posterior to the heart but not in this location.

Left atrial appendage is an anterior finger-like projection of the left atrium, separate from the coronary sinus.

This anatomy is described in the "Textbook of Clinical Echocardiography, 6e", Chapter on Cardiac Venous Anatomy#20:140-145Textbook of Clinical Echocardiography#.

NEW QUESTION # 37

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We can conclude this post with the fact that to clear the AE Adult Echocardiography Examination (AE-Adult-Echocardiography) certification exam, you need to be prepared before, study well, and practice. You cannot rely on your luck to score well in the AE-Adult-Echocardiography exam. You have to prepare with Prep4sureExam real ARDMS AE-Adult-Echocardiography Exam Questions to clear the AE-Adult-Echocardiography test in one go. You will also receive up to 365 days of free updates and AE-Adult-Echocardiography dumps pdf demos. Purchase the AE Adult Echocardiography Examination (AE-Adult-Echocardiography) practice tests today and get these amazing offers.

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