

AE-Adult-Echocardiography認證指南， AE-Adult-Echocardiography最新考證



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PDFExamDumps提供的培訓資料和正式的考試內容是非常接近的。你經過我們短期的特殊培訓可以很快的掌握IT專業知識，為你參加考試做好準備。我們承諾將盡力幫助你通過ARDMS AE-Adult-Echocardiography 認證考試。

ARDMS AE-Adult-Echocardiography 考試大綱：

主題	簡介
主題 1	<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.
主題 2	<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.
主題 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.

主題 4	<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.
主題 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.

>> AE-Adult-Echocardiography認證指南 <<

AE-Adult-Echocardiography最新考證 & AE-Adult-Echocardiography在線考題

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最新的 ARDMS RDCS AE-Adult-Echocardiography 免費考試真題 (Q111-Q116):

問題 #111

What is the significance of a mitral B-bump seen on M-mode?

- A. Hypertrophic obstructive cardiomyopathy
- B. Elevated left ventricular end-diastolic pressure
- C. Elevated left atrial systolic pressure
- D. Mitral stenosis

答案: C

解題說明:

The mitral B-bump on M-mode echocardiography represents a distinct anterior motion or thickening of the anterior mitral leaflet during atrial systole. It is associated with elevated left atrial systolic pressure.

The B-bump is a marker of increased left atrial pressure transmitted to the mitral valve, often seen in diastolic dysfunction and conditions causing elevated left atrial pressure.

It is not a direct indicator of left ventricular end-diastolic pressure, hypertrophic obstructive cardiomyopathy, or mitral stenosis.

This phenomenon is described in the "Textbook of Clinical Echocardiography, 6e", Chapter on Diastolic Function and Mitral Valve Motion#20:215-220Textbook of Clinical Echocardiography#.

問題 #112

Which unit of measurement is used to quantify tricuspid annular plane systolic excursion?

- A. Milliliters/minute
- B. Centimeters
- C. Centimeters/second
- D. Millimeters of mercury

答案： B

解題說明：

Tricuspid annular plane systolic excursion (TAPSE) is measured as the linear displacement of the tricuspid annulus during systole and is expressed in centimeters (cm). It quantifies right ventricular longitudinal systolic function.

Centimeters per second is a velocity measurement used in tissue Doppler imaging. Milliliters per minute refers to volume flow, and millimeters of mercury measures pressure.

This is standardized in the "Textbook of Clinical Echocardiography, 6e", Chapter on Right Ventricular Functional Assessment#20:320-325Textbook of Clinical Echocardiography#.

問題 #113

A patient presents in the emergency room with a history of chronic high Wood pressure and new onset severe back pain. A physical exam reveals a new diastolic murmur. Which would be the most likely finding?

- A. Aortic dissection
- B. Ruptured papillary muscle
- C. Aortic aneurysm
- D. Left ventricular rupture

答案： A

解題說明：

The combination of chronic elevated Wood units (indicative of pulmonary hypertension), severe back pain, and a new diastolic murmur strongly suggests an acute aortic dissection involving the ascending aorta or aortic valve.

Aortic dissection can cause tearing of the intima and compromise the aortic valve, leading to acute aortic regurgitation manifesting as a new diastolic murmur. Back pain is a classic symptom due to the dissection extending along the aorta.

Aortic aneurysm may cause symptoms but usually not acute severe pain and murmur. Left ventricular rupture and ruptured papillary muscle are typically complications of myocardial infarction and present differently.

This clinical presentation and echocardiographic assessment are described in the "Textbook of Clinical Echocardiography, 6e", Chapter on Aortic Pathology and Emergencies#20:380-385Textbook of Clinical Echocardiography#.

問題 #114

Which of the following does this Image represent?

□

- A. Pulmonary vein Doppler
- B. Mitral valve inflow
- C. Tricuspid valve inflow
- D. Hepatic vein Doppler

答案： D

解題說明：

Comprehensive and Detailed Explanation From Exact Extract:

The image shows a pulsed-wave Doppler waveform with respiratory phasicity and distinct forward and reversed flow components characteristic of hepatic vein flow patterns. Hepatic vein Doppler typically displays a biphasic waveform with systolic (S) and diastolic (D) forward flow toward the heart and brief reversed flow during atrial contraction (A wave reversal), reflecting right atrial pressure changes.

Mitral and tricuspid inflow Doppler patterns show distinct E and A waves representing early and late diastolic ventricular filling but do not have the same flow reversal pattern. Pulmonary vein Doppler waveforms also differ, showing systolic and diastolic forward flows into the left atrium without the prominent reversed flow seen here.

The hepatic vein Doppler is commonly used in echocardiography to assess right atrial pressure and compliance, especially in conditions like constrictive pericarditis and right heart failure, where characteristic flow reversals and expiratory changes are observed.

This pattern and its clinical significance are detailed in adult echocardiography references, including the "Textbook of Clinical Echocardiography" and ASE guidelines on Doppler imaging#16:Hepatic Vein DopplerTextbook of Clinical Echocardiography, 6e##12:ASE Doppler Guidelinesp.95-100#.

問題 #115

What is a normal response to dobutamine stress testing?

- A. An increase in left ventricular cavity size and an increase in systolic blood pressure
- **B. A decrease in left ventricular cavity size and an increase in systolic blood pressure**
- C. An increase in left ventricular cavity size and a decrease in systolic blood pressure
- D. A decrease in left ventricular cavity size and a decrease in systolic blood pressure

答案: B

解題說明:

During dobutamine stress testing, a normal physiological response includes increased myocardial contractility leading to a decrease in left ventricular (LV) cavity size during systole due to more effective ejection.

Concurrently, systolic blood pressure increases due to the inotropic and chronotropic effects of dobutamine.

An increase in LV cavity size during stress would suggest impaired contractility or ischemia, which is abnormal.

This normal response is detailed in the "Textbook of Clinical Echocardiography, 6e", Chapter on Stress Echocardiography and Hemodynamic Responses#20:400-405Textbook of Clinical Echocardiography#.

問題 #116

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