

AE-Adult-Echocardiography関連資格試験対応、AE-Adult-Echocardiographyコンポーネント



P.S. TopexamがGoogle Driveで共有している無料かつ新しいAE-Adult-Echocardiographyダンプ：<https://drive.google.com/open?id=1NZ9FI0-eZl1J6aVGKQst5Nr-A87fl0Q>

私たちのAE-Adult-Echocardiography試験参考書を利用し、AE-Adult-Echocardiography試験に合格できます。おそらくあなたは私たちのAE-Adult-Echocardiography試験参考書を信じられないでしょう。でも、あなたはAE-Adult-Echocardiography試験参考書を買ったお客様のコメントを見ると、すぐ信じるようになります。あなたは心配する必要がないです。早くAE-Adult-Echocardiography試験参考書を買いましょう！

現代の競争が激しくても、受験者がAE-Adult-Echocardiography参考書に対するニーズを止めることができません。AE-Adult-Echocardiography参考書についてもっと具体的な情報を得るために、Topexam会社のウェブサイトを訪ねていただきます。そうすれば、実際のAE-Adult-Echocardiography試験についての情報と特徴を得ることができます。興味を持つお客様はARDMS会社のウェブサイトから無料でデモをダウンロードできます。

>> AE-Adult-Echocardiography関連資格試験対応 <<

AE-Adult-Echocardiographyコンポーネント & AE-Adult-Echocardiography日本語認定

夢を叶えたいなら、専門的なトレーニングだけが必要です。TopexamはARDMSのAE-Adult-Echocardiography試験トレーニング資料を提供する専門的なサイトです。TopexamのARDMSのAE-Adult-Echocardiography試験トレーニング資料は高度に認証されたIT領域の専門家の経験と創造を含んでいるものです。あなたはTopexamの学習教材を購入した後、私たちは一年間で無料更新サービスを提供することができます。

ARDMS AE-Adult-Echocardiography 認定試験の出題範囲：

トピック	出題範囲
トピック 1	• 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.

トピック 2	• 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.
トピック 3	• 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.
トピック 4	• 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.
トピック 5	• 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.

ARDMS AE Adult Echocardiography Examination 認定 AE-Adult-Echocardiography 試験問題 (Q89-Q94):

質問 # 89

What does the Qp represent in an atrial septal defect shunt ratio measurement (Qp/Qs)?

- A. Stroke volume of the LVOT
- **B. Stroke volume of the RVOT**
- C. Left ventricular outflow tract (LVOT) time velocity integral
- D. Right ventricular outflow tract (RVOT) time velocity integral

正解: B

解説:

In the calculation of the shunt ratio Qp/Qs, Qp represents pulmonary blood flow, which is calculated as the stroke volume of the right ventricular outflow tract (RVOT). Stroke volume is obtained by measuring the RVOT cross-sectional area and the RVOT time velocity integral (VTI).

Qp (pulmonary flow) divided by Qs (systemic flow) quantifies the magnitude of left-to-right shunting in atrial septal defects and other congenital heart diseases.

This method is described in the "Textbook of Clinical Echocardiography, 6e", Chapter on Shunt Quantification and Flow Calculations#20:360-365Textbook of Clinical Echocardiography#.

質問 # 90

Which of the following is the most likely cause for the findings demonstrated in this video?

□

- A. Infective endocarditis
- B. Systemic lupus
- C. Rheumatic fever
- **D. Drug-induced valvulopathy**

正解: D

解説:

The video shows thickened, retracted, and possibly regurgitant valve leaflets with a characteristic appearance seen in drug-induced valvulopathy. Drugs such as ergot derivatives (e.g., methysergide) and appetite suppressants (e.g., fen-phen) can cause fibrotic thickening of valve leaflets mimicking carcinoid heart disease or rheumatic valve disease.

Infective endocarditis presents with vegetations and potentially valve destruction but typically not the diffuse thickening seen here. Rheumatic fever causes leaflet thickening but has a different chronic clinical course.

Systemic lupus may cause valve thickening but often involves Libman-Sacks vegetations rather than diffuse fibrosis.

This is discussed in the "Textbook of Clinical Echocardiography, 6e", Chapter on Valvular Heart Disease - Drug Induced and Secondary Causes#20:400-405Textbook of Clinical Echocardiography#.

質問 # 91

□

- A. Primum atrial septal defect
- B. Coronary sinus atrial septal defect
- C. Sinus venosus atrial septal defect
- **D. Secundum atrial septal defect**

正解: D

解説:

The echocardiographic image shows a typical atrial septal defect located in the central portion of the atrial septum, best classified as a secundum atrial septal defect (ASD). Secundum ASDs are the most common type, occurring in the fossa ovalis region.

Sinus venosus ASDs are located near the superior vena cava or inferior vena cava junctions, coronary sinus ASDs involve unroofing of the coronary sinus, and primum ASDs occur low in the atrial septum near the atrioventricular valves.

These anatomic distinctions are critical for diagnosis and surgical planning and are detailed in adult congenital heart disease and echocardiography references#16:Textbook of Clinical Echocardiography, 6ep.

565-570##12:ASE Adult Congenital Guidelinesp.400-410#.

質問 # 92

Which artery is identified by the arrow on this image?

□

- A. Right common carotid
- B. Left subclavian
- **C. Brachiocephalic**
- D. Left common carotid

正解: C

解説:

The image is a suprasternal or high parasternal echocardiographic view of the aortic arch and its branches.

The arrow points to the first large branch arising from the aortic arch, which is the brachiocephalic artery (also called the innominate artery). This vessel courses superiorly and bifurcates into the right common carotid and right subclavian arteries.

The left common carotid artery is the second branch from the arch, the left subclavian artery is the third branch, and the right common carotid is a branch of the brachiocephalic artery, not directly off the arch.

This anatomic arrangement and its echocardiographic depiction are well documented in adult echocardiography references and vascular ultrasound guidelines#12:ASE Vascular Imaging Guidelinesp.270-

275##16:Textbook of Clinical Echocardiography, 6ep.400-405#.

質問 # 93

What is indicated by the arrow on this video clip?

- A. False tendon
- B. Chiari network
- C. Eustachian valve
- **D. Moderator band**

正解: D

解説:

The structure indicated by the arrow in the right ventricle is the moderator band. The moderator band is a muscular band of tissue that crosses the right ventricular cavity from the interventricular septum to the anterior papillary muscle. It contains part of the right bundle branch of the conduction system and is a normal anatomical structure identifiable on echocardiography.

False tendons are fibrous or muscular strands within the left ventricle, not the right. The Chiari network is a mobile, net-like structure in the right atrium near the inferior vena cava and atrial septum. The Eustachian valve is a crescent-shaped ridge at the entrance of the inferior vena cava into the right atrium.

The moderator band is important to recognize to avoid misinterpretation as a pathological mass or thrombus.

This is detailed in the "Textbook of Clinical Echocardiography, 6e", Chapter on Right Ventricular Anatomy and Echocardiographic Landmarks#20:150-155Textbook of Clinical Echocardiography#.

質問 #94

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Topexamは生徒を常に惹きつけ、ARDMS熱心な顧客からの世界的なフィードバックの進歩に情熱を移します。AE-Adult-Echocardiography試験で彼らが夢をかなえるためにこの分野でナンバーワンであることを証明します。AE-Adult-Echocardiography試験問題の質の高さを保証しているため、AE-Adult-Echocardiography練習教材はより優れた教育効果をもたらします。また、学習の後方情報の蓄積が生徒に大きな負担を感じさせる代わりに、最新のAE-Adult-EchocardiographyのAE Adult Echocardiography Examination試験ガイドは、あらゆる種類の生徒の有効性または正確性のニーズを満たすことができます。

AE-Adult-Echocardiography コンポーネント : https://www.topexam.jp/AE-Adult-Echocardiography_shiken.html

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