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SPI Practice (ARDMS A & B), spi ardms test A and B, ARDMS PRACTICE SPI (B)

3cm - ANS-what is the space to the interface if the spherical experience time for a valid wave is 39 microseconds?
 A - ANS-what's the maximum commonplace purpose of localized vertical nonuniformity in a real-time B-mode photo?
 A) Improper TGC
 b) Defective transducer factors
 c) Faulty preamplifier
 d) Malfunctioning experiment converter
 A sound wave propagates quickest through which substance? - ANS-A. Bone
 B. Muscle
 C. Fat
 D. Gas
 a sound wave propagates fastest thru which substance? - ANS-Bone
 A.Regulate the sweep speed
 B.Adjust the baseline
 C.Growing dynamic range
 D.Growing the transmitted frequency - ANS-B
 in step with ALARA (as little as moderately potential) hints, which parameter ought to be minimized?
 A.Transmit power
 B.Frequency
 C.Time gain repayment
 D.Normal advantage - ANS-A
 Acoustic enhancement takes place distal to what?
 A. Calcifications
 B. Near subject interface
 C. Noticeably reflecting structure
 D. Weakly attenuating shape - ANS-D
 an boom in which parameter will improve the accuracy of speed measurements with autocorrelation?
 A.Colour field of view
 B.Packet size
 C.Wall filtering
 D.Transmitted frequency - ANS-B
 an boom wherein parameter will enhance the accuracy of speed measurements with autocorrelation? - ANS-colour discipline of view

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Our SPI preparation practice are highly targeted and have a high hit rate, there are a lot of learning skills and key points in the exam, even if your study time is very short, you can also improve your SPI exam scores very quickly. Even if you have a week foundation, I believe that you will get the certification by using our SPI Study Materials. We can claim that with our SPI practice engine for 20 to 30 hours, you will be ready to pass the exam with confidence.

ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Optimize Sonographic Images: This section of the exam measures skills of Diagnostic Medical Sonographers and assesses their ability to enhance image quality using advanced optimization techniques. It includes understanding axial, lateral, elevational, and temporal resolution, as well as manipulating gain, depth, magnification, and dynamic range. Examinees are expected to apply harmonic imaging, spatial compounding, and gray-scale techniques to produce clear, accurate diagnostic images.

Topic 2	<ul style="list-style-type: none"> • Manage Ultrasound Transducers: This section of the exam measures skills of Ultrasound Technicians and focuses on the management and proper use of different types of transducers. It evaluates knowledge of transducer components, frequency selection, and application of various 2D, 3D, 4D, and nonimaging transducer concepts. Candidates must show they can choose the appropriate transducer for specific examinations and make necessary frequency adjustments to ensure image quality.
Topic 3	<ul style="list-style-type: none"> • Apply Doppler Concepts: This section of the exam measures skills of Vascular Sonographers and evaluates understanding and application of Doppler ultrasound principles. It includes knowledge of Doppler angle, flow dynamics, and color and spectral Doppler imaging. The section also covers eliminating aliasing, interpreting waveforms, applying continuous and pulsed wave Doppler, and optimizing Doppler gain and scale to accurately measure blood flow and velocity within vessels.
Topic 4	<ul style="list-style-type: none"> • Provide Clinical Safety and Quality Assurance: This section of the exam measures skills of Clinical Ultrasound Supervisors and focuses on maintaining safety and quality standards in ultrasound practice. It includes infection control protocols, transducer and machine integrity checks, and quality assurance testing using tissue-mimicking phantoms. The section also requires familiarity with statistical parameters like sensitivity and specificity to evaluate diagnostic performance and ensure consistent, reliable imaging outcomes.
Topic 5	<ul style="list-style-type: none"> • Perform Ultrasound Examinations: This section of the exam measures skills of Sonographers and covers how to conduct ultrasound procedures while ensuring patient safety and diagnostic accuracy. It includes understanding of imaging protocols, ergonomics, patient care, and the interaction between sound and tissue. Candidates are expected to demonstrate abilities to manage patient encounters, apply 3D • 4D and contrast imaging concepts, identify and correct artifacts, and follow confidentiality and privacy standards throughout the scanning process.

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SPI Test Braindumps | SPI Exam Questions And Answers

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ARDMS Sonography Principles and Instrumentation Sample Questions (Q138-Q143):

NEW QUESTION # 138

Which characteristics are associated with an ideal imaging transducer?

- A. Narrow bandwidth; high quality factor
- **B. Broad bandwidth; low quality factor**
- C. Broad bandwidth; high quality factor
- D. Narrow bandwidth; low quality factor

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Ideal imaging transducers have broad bandwidths (allowing multiple frequencies for better axial resolution and flexibility) and a low quality factor (which indicates efficient damping, leading to short pulses and better image quality).

According to sonography instrumentation reference:

"Imaging transducers operate with broad bandwidth and low quality factor to achieve short pulse duration and optimal axial resolution." Therefore, the correct answer is B: Broad bandwidth; low quality factor.

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NEW QUESTION # 139

What adjustment is needed to optimize the image below?

A close-up of a medical scan Description automatically generated



- A. Increase wall filter
- B. Raise focal zone
- C. Decrease scale
- **D. Steer the box**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In the displayed image, the color box is not aligned parallel to the direction of blood flow in the vessel. Color Doppler is angle-dependent; when the color box is not properly steered to align with flow, the Doppler shift is reduced, and less color filling occurs. Steer the box to align the ultrasound beam more parallel to flow to maximize Doppler shift and improve color filling.

According to sonography instrumentation reference:

"Steering the color box aligns the Doppler beam with blood flow direction, optimizing the Doppler angle and improving flow visualization." Therefore, the correct answer is B: Steer the box.

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NEW QUESTION # 140

What is the primary interaction that occurs when sound waves encounter a smooth, flat surface?

- A. Attenuation
- B. Diffraction
- C. Interference
- **D. Reflection**

Answer: D

Explanation:

When sound waves encounter a smooth, flat surface, the primary interaction is reflection. This means the sound waves bounce back towards the transducer, producing echoes that are used to create the ultrasound image. Reflection is most effective when the surface is smooth and perpendicular to the sound beam, allowing for the maximum return of sound waves to the transducer.

Reference:

ARDMS Sonography Principles and Instrumentation guidelines

Zagzebski, J. A. (1996). Essentials of Ultrasound Physics.

NEW QUESTION # 141

What reduces speckle and increases visualization of specular reflectors and attenuated structures?

- A. Elastography
- **B. Spatial compounding**
- C. Extended field of view
- D. Pixel interpolation

Answer: B

Explanation:

Spatial compounding involves acquiring multiple frames from different angles and averaging them. This technique reduces speckle noise, which is a granular interference pattern, and enhances the visualization of specular reflectors (smooth surfaces that reflect sound in a single direction) and attenuated structures (structures that reduce the intensity of the sound beam). By averaging frames from different angles, spatial compounding improves image quality and contrast resolution.

Reference:

ARDMS Sonography Principles and Instrumentation guidelines

Hedrick, W. R., Hykes, D. L., & Starchman, D. E. (2005). Ultrasound Physics and Instrumentation.

NEW QUESTION # 142

What occurs when the pulse repetition frequency is less than twice the Doppler shift frequency?

- A. Spectral broadening
- **B. Aliasing**
- C. Range ambiguity
- D. Propagation speed artifact

Answer: B

Explanation:

Aliasing occurs in Doppler ultrasound when the pulse repetition frequency (PRF) is less than twice the Doppler shift frequency (Nyquist limit). When this condition is met, the Doppler signals are not sampled frequently enough to accurately measure the frequency shifts, resulting in the misrepresentation of the flow velocities. This causes the aliasing artifact, where high-velocity flows are displayed incorrectly as wrapping around the baseline, leading to potential diagnostic errors.

Reference: ARDMS Sonography Principles and Instrumentation (SPI) Review, Doppler Artifacts section.

NEW QUESTION # 143

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