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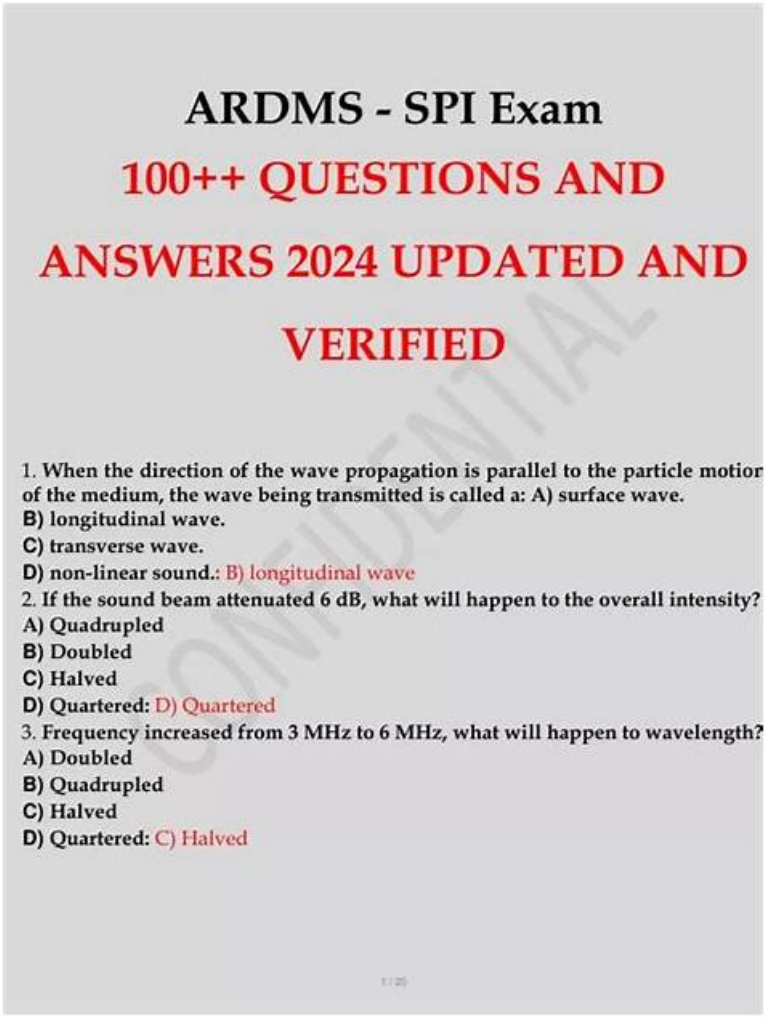

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ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	• Perform Ultrasound Examinations: This topic discusses patient care, sonographic ergonomic techniques, echogenicity, reverberation, and potential bioeffects. It also discusses beam steering concepts, panoramic imaging, 3D • 4D concepts, and contrast imaging concepts.
Topic 2	• Apply Doppler Concepts: It discusses Doppler wall filter concepts, Doppler sample gate concepts, y color priority over gray scale concepts, and concepts related to color Doppler map. Furthermore, it discusses concepts to eliminate aliasing, continuous wave Doppler concepts, and color Doppler scale concepts.
Topic 3	• Manage Ultrasound Transducers: It delves into 2D array transducer concepts, 3D • 4D transducer concepts, and nonimaging transducer concepts.
Topic 4	• Provide Clinical Safety & Quality Assurance: This topic covers universal infection control protocols, QA check on ultrasound machine, transducer integrity, ultrasound machine integrity, and statistical parameter concepts.
Topic 5	• Optimize Sonographic Images: The topic focuses on optimization of axial resolution concepts, optimization of lateral resolution concepts, optimization of elevational resolution concepts, optimization of temporal resolution concepts, and magnification techniques.

ARDMS Sonography Principles and Instrumentation Sample Questions (Q116-Q121):

NEW QUESTION # 116
What adjustment is needed to visualize the borders of the anatomical structures in the image below?

- A. Increase dynamic range
- B. Increase sector width
- C. Decrease depth
- D. Lower focal zone

Answer: A

Explanation:
Dynamic range in ultrasound imaging refers to the range of signal amplitudes that the system can display. Increasing the dynamic range allows the ultrasound system to display a broader range of echo amplitudes, which enhances the contrast resolution and helps to visualize subtle differences in tissue texture and borders of anatomical structures. When the dynamic range is increased, more shades of gray are used, making the image appear softer and less contrasty, which is beneficial for delineating the borders of anatomical structures more clearly.
Reference:
American Registry for Diagnostic Medical Sonography (ARDMS). Sonography Principles and Instrumentation (SPI) Examination Review Guide.

NEW QUESTION # 117
What is an advantage of power Doppler over color Doppler?

- A. Increased frame rate
- B. Diminished flash artifact
- C. Less angle dependent
- D. Accurate velocity information

Answer: C

Explanation:
Power Doppler, unlike color Doppler, is less angle dependent because it detects the strength of the Doppler signal rather than the velocity of the blood flow. This means it is more sensitive to detecting low-velocity flow and flow in smaller vessels, regardless of the angle between the ultrasound beam and the flow direction.
Color Doppler provides information on flow direction and velocity but is highly dependent on the angle of insonation, making it less reliable when the angle is suboptimal.
ARDMS Sonography Principles and Instrumentation guidelines
Zwiebel, W. J., & Pellerito, J. S. (2017).Introduction to Vascular Ultrasonography. Elsevier.

NEW QUESTION # 118
For harmonic imaging, what must the overall transducer bandwidth contain?

- A. Fundamental and even harmonic frequencies
- B. Fundamental and second harmonic frequencies
- C. Fundamental and fourth harmonic frequencies
- D. Fundamental and odd harmonic frequencies

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Harmonic imaging operates by transmitting at the fundamental frequency and receiving echoes at the second harmonic frequency (which is twice the fundamental frequency). Therefore, the transducer must have a broad enough bandwidth to include both frequencies.
According to sonography instrumentation reference:
"For harmonic imaging, the transducer bandwidth must accommodate both the transmitted fundamental frequency and the received second harmonic frequency." Therefore, the correct answer is A: Fundamental and second harmonic frequencies.
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NEW QUESTION # 119
Which artifact causes a reflector to be improperly positioned on the display?

- A. Range ambiguity
- B. Enhancement
- C. Speckle
- D. Acoustic shadowing

Answer: A

Explanation:
* Acoustic Shadowing: This artifact occurs when a structure absorbs or reflects most of the ultrasound waves, causing a shadow behind the structure. It does not cause improper positioning of a reflector on the display.
* Speckle: This is a form of noise in ultrasound imaging that appears as granular texture. It can affect image quality but does not lead to improper positioning of reflectors.
* Enhancement: This artifact occurs when the area behind a weakly attenuating structure appears brighter.
It affects the brightness of the image but does not affect the position of reflectors.
* Range Ambiguity: This occurs when an echo is received after the next pulse has been sent out, causing the reflector to be placed at an incorrect depth on the display. This is because the system assumes the echo came from the most recent pulse.
References:

"Ultrasound Physics and Instrumentation" by Frank Miele
ARDMS Sonography Principles and Instrumentation study materials

NEW QUESTION # 120
What causes increased echogenicity distal to an anechoic structure?

- A. Increased attenuation distal to the structure
- B. Reduced attenuation through the structure
- C. Increased attenuation within the structure
- D. Reduced penetration through the structure

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
An anechoic structure (such as a cyst or fluid-filled space) allows ultrasound waves to pass through with minimal attenuation. As a result, more sound energy reaches tissues distal to the structure, producing a bright area known as posterior acoustic enhancement or increased echogenicity.
The sonography Principles and Instrumentation documents state:
"Posterior acoustic enhancement occurs distal to fluid-filled structures due to reduced attenuation through the anechoic medium, allowing increased beam intensity to reach deeper tissues."
* Reduced penetration (A) and increased attenuation (B or C) would not produce enhancement.
* Reduced attenuation (D) is the correct mechanism.
Therefore, the correct answer is D: Reduced attenuation through the structure.
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NEW QUESTION # 121
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