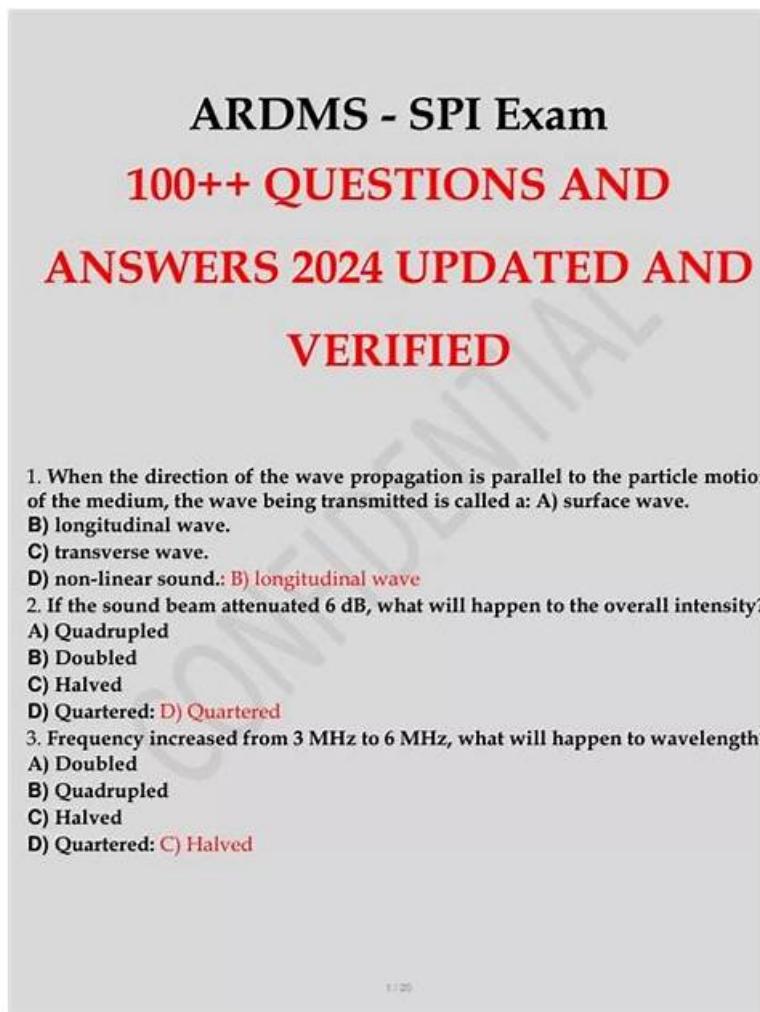


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ARDMS Sonography Principles and Instrumentation Sample Questions (Q46-Q51):

NEW QUESTION # 46

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

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

Answer: C

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 # 47

Which type of resolution is improved by transmit focus?

- A. Axial
- B. Elevational
- C. Temporal
- D. **Lateral**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Transmit focus narrows the ultrasound beam width at specific depths, improving lateral resolution - the ability to distinguish two objects side-by-side.

According to Principles and Instrumentation:

"Lateral resolution depends on beam width and is improved by focusing, which narrows the beam in the lateral dimension." Axial resolution depends on pulse length.

Elevational resolution depends on slice thickness.

Temporal resolution relates to frame rate.

Therefore, the correct answer is C: Lateral.

NEW QUESTION # 48

Which effect does spatial compounding have on ultrasound images?

- A. Increases shadowing
- B. Increases propagation speed
- C. **Decreases shadowing**
- D. Decreases propagation speed

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Spatial compounding acquires multiple frames from different angles and combines them into a single image.

This technique reduces the appearance of artifacts such as shadowing and speckle noise, resulting in a smoother, more uniform image.

According to sonography instrumentation reference:

"Spatial compounding reduces artifacts like posterior shadowing and speckle by averaging data from multiple insonation angles." Therefore, the correct answer is D: Decreases shadowing.

NEW QUESTION # 49

Which situation occurs when the incident angle of a sound beam is adjusted to be perpendicular to a soft tissue interface?

- A. Reflection
- B. Range ambiguity
- C. Refraction
- D. Cavitation

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Reflection is maximized when the ultrasound beam strikes a tissue interface at 90 degrees (perpendicular). This angle provides optimal return of echoes for imaging.

According to sonography instrumentation reference:

"Maximal reflection occurs when the sound beam strikes a boundary at 90 degrees." Therefore, the correct answer is D: Reflection.

NEW QUESTION # 50

What is the effect of an increased aperture in a linear array transducer?

- A. Decreased temporal resolution
- B. Deeper focus
- C. Shorter near-field length
- D. Improved axial resolution

Answer: B

Explanation:

The aperture of a transducer is the active area that emits and receives the ultrasound waves. In a linear array transducer, increasing the aperture (using more elements for transmission and reception) results in a deeper focus because the beam is more tightly focused over a longer distance. This improves lateral resolution at greater depths, as the ultrasound beam maintains a narrower width for a longer distance. It allows for better imaging of deeper structures without sacrificing resolution.

Reference:

American Registry for Diagnostic Medical Sonography (ARDMS). Sonography Principles and Instrumentation (SPI) Examination Review Guide.

NEW QUESTION # 51

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