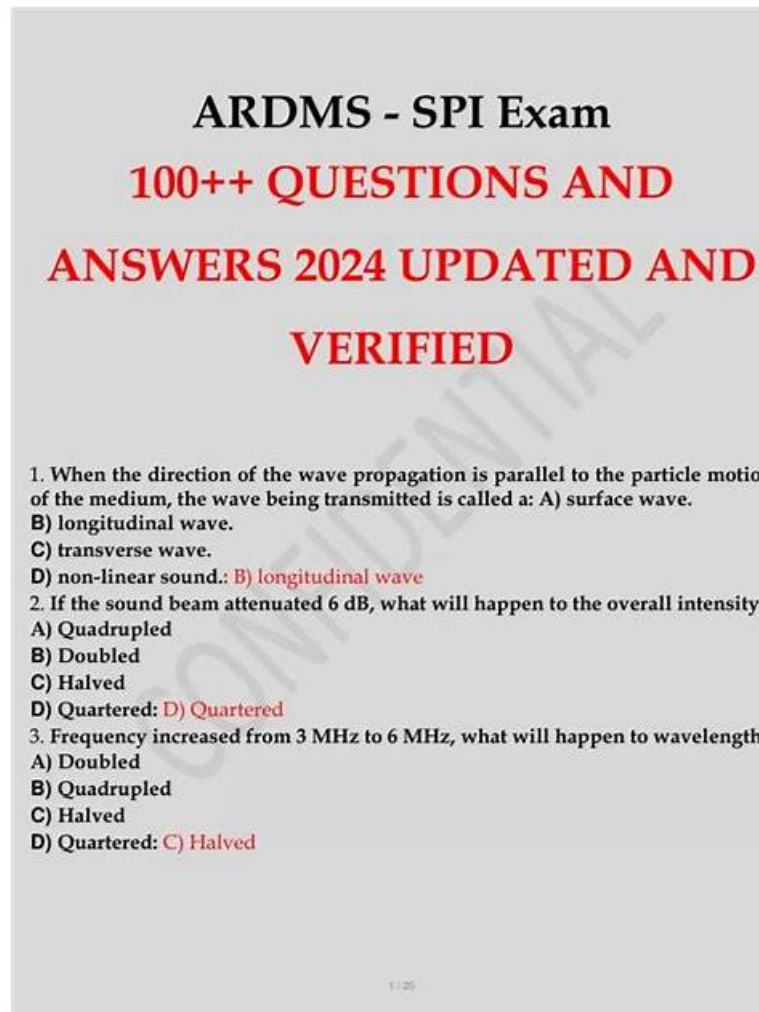


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ARDMS Sonography Principles and Instrumentation Sample Questions (Q75-Q80):

NEW QUESTION # 75

Which adjustment follows the ALARA (As Low As Reasonably Achievable) principle of patient safety?

- A. Increase number of focal zones
- **B. Decrease output power**
- C. Decrease depth
- D. Increase sector width

Answer: B

Explanation:

The ALARA principle stands for "As Low As Reasonably Achievable" and aims to minimize patient exposure to ultrasound energy. Decreasing the output power reduces the intensity of the ultrasound waves, thereby reducing the potential for tissue heating and mechanical effects, which aligns with the ALARA principle of minimizing exposure while still obtaining necessary diagnostic information.

ARDMS Sonography Principles and Instrumentation guidelines

Hangjandreou, N. J. (2003). "Physics Tutorial for Residents: Topics in US: B-Mode US: Basic Concepts and New Technology." Radiographics.

NEW QUESTION # 76

Which factor causes posterior acoustic enhancement?

- **A. Weakly attenuating structure**
- B. Strongly attenuating structure
- C. High-frequency transducer
- D. Low-frequency transducer

Answer: A

Explanation:

* High-Frequency Transducer: These provide better resolution but do not directly cause posterior enhancement.

* Low-Frequency Transducer: These provide better penetration but are not the cause of posterior enhancement.

* Strongly Attenuating Structure: This would cause acoustic shadowing rather than enhancement.

* Weakly Attenuating Structure: Structures that attenuate the ultrasound beam less than the surrounding tissues allow more sound waves to pass through, resulting in increased brightness or "enhancement" behind the structure.

References:

"Ultrasound Physics and Instrumentation" by Frank Miele

ARDMS Sonography Principles and Instrumentation study materials

NEW QUESTION # 77

What artifact is indicated by the arrows in the image below?

An ultrasound image of a fetus Description automatically generated

□

- A. Refraction
- B. Enhancement
- **C. Ring down**
- D. Grating lobe

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The image shows a bright, continuous, vertical band extending from a gas-containing structure (seen at the top). This is characteristic of ring down artifact, which occurs when multiple small gas bubbles resonate and create continuous echoes below the structure.

According to sonography instrumentation reference:

"Ring down artifact results from resonance of gas bubbles, producing a continuous series of echoes distal to the source. It appears as a bright, vertical band that does not fade with depth." Therefore, the correct answer is A: Ring down.

-

NEW QUESTION # 78

What happens to the amount of attenuation if the path length is doubled?

- A. Quadrupled
- B. Quartered
- C. Doubled
- D. Halved

Answer: C

Explanation:

Attenuation in ultrasound is directly proportional to the path length. If the path length is doubled, the amount of attenuation is also doubled. Attenuation refers to the reduction in the amplitude and intensity of the ultrasound wave as it travels through tissue, primarily due to absorption, reflection, and scattering. The relationship is linear, so doubling the distance the sound wave travels will result in twice the amount of attenuation.

ARDMS Sonography Principles and Instrumentation guidelines

Krenkau, F. W. (2015). Diagnostic Ultrasound: Principles and Instruments. Elsevier.

NEW QUESTION # 79

What is the most effective way to reduce aliasing on color Doppler?

- A. Increase wall filter
- B. Increase pulse repetition frequency (PRF)
- C. Decrease pulse repetition frequency (PRF)
- D. Decrease wall filter

Answer: B

Explanation:

Aliasing in color Doppler occurs when the velocity of blood flow exceeds the Nyquist limit, which is half the PRF. To reduce aliasing, the PRF must be increased. This raises the Nyquist limit, allowing higher velocities to be measured without wrapping around the baseline. Increasing PRF reduces the occurrence of aliasing artifacts by expanding the range of detectable velocities before aliasing occurs.

References:

ARDMS Sonography Principles & Instrumentation Guidelines

Krenkau FW. Sonography Principles and Instruments. 9th ed. Philadelphia, PA: Elsevier; 2016.

NEW QUESTION # 80

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