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New SPI Examcollection | High-quality SPI Reasonable Exam Price: Sonography Principles and Instrumentation

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ARDMS Sonography Principles and Instrumentation Sample Questions (Q144-Q149):

NEW QUESTION # 144

Which factor does a string phantom evaluate?

- A. Intensity values
- B. Two-dimensional resolution
- C. Flow velocity
- D. Slice thickness

Answer: C

Explanation:

A string phantom is designed to evaluate the accuracy of Doppler ultrasound systems, specifically in measuring flow velocity. It consists of a moving string or filament that mimics blood flow within a vessel. By using this phantom, sonographers can assess how accurately the ultrasound system can detect and measure the speed of the moving target. This helps in calibrating and verifying the performance of Doppler systems, ensuring they provide accurate flow velocity readings in clinical practice.

American Registry for Diagnostic Medical Sonography (ARDMS) Sonography Principles and Instrumentation study materials. Textbook of Diagnostic Sonography by Hagen-Ansert, S. L. (latest edition).

NEW QUESTION # 145

If the pulse repetition frequency is 3 kHz, what is the maximum Doppler shift that can be detected without aliasing?

- A. 9.0 kHz
- B. 3.0 kHz
- C. 1.5 kHz
- D. 6.0 kHz

Answer: C

Explanation:

The maximum Doppler shift that can be detected without aliasing is determined by the Nyquist limit, which is half of the pulse repetition frequency (PRF). If the PRF is 3 kHz, the Nyquist limit is $32 = 1.523 \text{ kHz} = 1.5 \text{ kHz}$. Therefore, the maximum Doppler shift that can be detected without aliasing is 1.5 kHz. Aliasing occurs when the Doppler shift exceeds this limit, causing an incorrect representation of the velocity.

Reference: ARDMS Sonography Principles and Instrumentation, Chapter on Doppler Principles.

NEW QUESTION # 146

Which type of resolution will be improved by decreasing the depth of field?

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

Answer: D

Explanation:

Lateral resolution refers to the ability to distinguish two structures that are side by side. It is dependent on the width of the ultrasound beam. By decreasing the depth of field, the beam width is reduced at any given point along the depth, which improves the lateral resolution. This is because a narrower beam can better distinguish between objects that are close together laterally.

Reference:

ARDMS Sonography Principles and Instrumentation guidelines

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

NEW QUESTION # 147

What combination of transmitting frequency and depth produces the greatest ultrasound beam attenuation?

- A. 5 MHz at 2 cm
- B. 7.5 MHz at 5 cm
- C. 7.5 MHz at 2 cm
- D. 5 MHz at 5 cm

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Attenuation increases with both frequency and depth. The highest attenuation occurs at the highest frequency and greatest depth. 7.5 MHz attenuates faster than 5 MHz, and 5 cm represents deeper tissue penetration.

Principles and Instrumentation state:

"Attenuation is directly proportional to frequency and path length: $\text{Attenuation} = \text{Frequency} \times \text{Depth} \times \text{Attenuation Coefficient}$."

Therefore, the correct answer is D: 7.5 MHz at 5 cm.

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NEW QUESTION # 148

What is ensemble length (packet size)?

- A. Amplitude of pulses along the scan line
- B. Length of pulses per scan line
- C. Velocity of pulses along the scan line
- **D. Number of pulses along a scan line**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Ensemble length, also known as packet size, refers to the number of ultrasound pulses sent along each scan line when performing color Doppler or power Doppler imaging. Increasing the ensemble length allows for more accurate velocity estimation and improved sensitivity to low flow but comes at the expense of decreased frame rate.

Official sonography instrumentation reference states:

"Ensemble length refers to the number of pulses per scan line used in color Doppler imaging. A larger ensemble improves sensitivity to slow flow and provides more accurate frequency (velocity) estimates but reduces temporal resolution." Thus, the correct answer is B: Number of pulses along a scan line.

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NEW QUESTION # 149

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