

2026 ARDMS SPI: Sonography Principles and Instrumentation Updated Related Certifications



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ARDMS Sonography Principles and Instrumentation Sample Questions (Q107-Q112):

NEW QUESTION # 107

Decreasing which parameter will improve axial resolution?

- A. Frequency
- B. Focal depth
- C. Bandwidth
- **D. Pulse length**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Axial resolution is primarily determined by the spatial pulse length (SPL), which depends on both wavelength and the number of cycles per pulse. A shorter pulse length provides better axial resolution. The Principles and Instrumentation documents state:

"Axial resolution = SPL/2. To improve axial resolution, the pulse duration must be shortened - achieved by decreasing the pulse length." Note: While increasing frequency also improves axial resolution (because it shortens wavelength), in this question, decreasing pulse length directly targets SPL, making it the most precise answer.

Therefore, the correct answer is C: Pulse length.

Therefore, the correct answer is C: Pulse length.

NEW QUESTION # 108

Which factor influences color flow imaging frame rate?

- A. Variance map selection
- B. Filter selection
- **C. Line density**
- D. Dynamic range

Answer: C

Explanation:

The frame rate in color flow imaging is influenced by several factors, one of the most significant being line density. Line density refers to the number of ultrasound lines used to create an image. Increasing line density improves spatial resolution but requires more time to acquire each frame, thereby reducing the frame rate. Other factors such as filter selection, dynamic range, and variance map selection can affect the quality of the color flow image, but they do not have as direct an impact on frame rate as line density does.

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

NEW QUESTION # 109

What is assessed with power Doppler?

- A. Laminar flow
- **B. Presence of flow**
- C. Viscosity
- D. Velocity of flow

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Power Doppler detects the strength (amplitude) of returning Doppler signals, which reflects the presence of flow regardless of direction or velocity. It is more sensitive to low-velocity flow and is less angle-dependent than conventional color Doppler.

Principles and Instrumentation state:

"Power Doppler displays the amplitude of Doppler shifts, representing the presence of flow. It does not display direction or velocity."

* Laminar flow (A) and velocity (C) are not specifically measured by power Doppler.

* Viscosity (D) cannot be assessed by Doppler ultrasound.

Therefore, the correct answer is B: Presence of flow.

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NEW QUESTION # 110

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



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

Answer: B

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.

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NEW QUESTION # 111

Which outcome is an advantage of more pulses in an ensemble length?

- A. Reduced ghosting artifact
- B. Improved temporal resolution
- C. Increased line density
- **D. Increased accuracy of velocity measurement**

Answer: D

Explanation:

Ensemble length, also known as packet size or Doppler packet, refers to the number of pulses used to calculate each Doppler measurement. Increasing the number of pulses in an ensemble length improves the accuracy of velocity measurements by providing more data points for the Doppler shift analysis. This leads to better estimation of mean velocities and reduces the variability of the measurements, although it may slightly decrease temporal resolution due to the longer time required to acquire the data.

Reference:

ARDMS Sonography Principles and Instrumentation guidelines

Edelman, S. K. (2017). Understanding Ultrasound Physics.

NEW QUESTION # 112

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