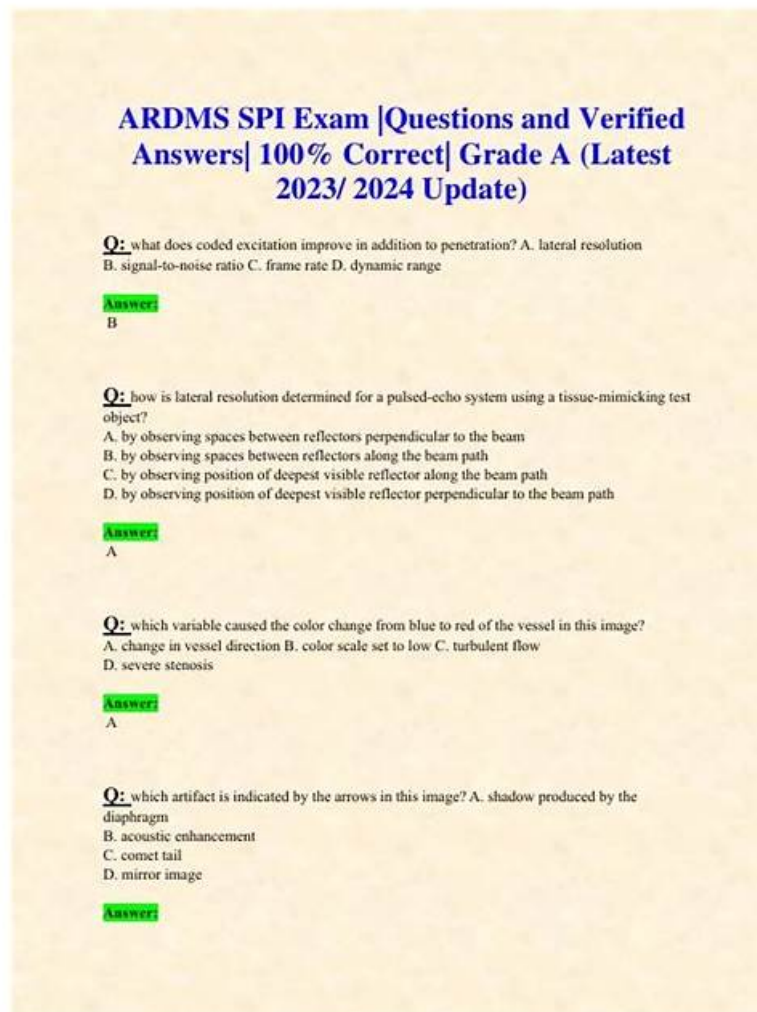


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ARDMS Sonography Principles and Instrumentation Sample Questions (Q85-Q90):

NEW QUESTION # 85

Which type of resolution does damping improve?

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

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Damping reduces the number of cycles per pulse, shortening pulse duration and spatial pulse length, which directly improves axial resolution.

Principles and Instrumentation:

"Axial resolution improves with shorter spatial pulse length, achieved by damping, which limits ringing of the transducer."

* Lateral resolution (A) depends on beam width.

* Contrast resolution (B) relates to dynamic range.

* Temporal resolution (C) is tied to frame rate.

Therefore, the correct answer is D: Axial.

NEW QUESTION # 86

Which ultrasound adjustment allows for an increased frame rate in color flow Doppler?

- A. Using continuous wave Doppler
- **B. Decreasing depth**
- C. Increasing sector scan width
- D. Using multiple focal zones

Answer: B

Explanation:

Frame rate in color flow Doppler is influenced by several factors, including the imaging depth. Decreasing the depth reduces the time it takes for sound waves to travel to the imaging area and back to the transducer. This allows for more frames to be captured per second, thereby increasing the frame rate. Higher frame rates improve temporal resolution, making it easier to visualize moving structures.

Reference:

ARDMS Sonography Principles & Instrumentation Guidelines

Hagen-Ansert SL. Textbook of Diagnostic Ultrasonography. 8th ed. St. Louis, MO: Mosby; 2017.

NEW QUESTION # 87

Which adjustment can maintain the same frame rate when the depth is increased?

- **A. Decrease image width**
- B. Increase frequency
- C. Decrease persistence
- D. Increase number of focal zones

Answer: A

Explanation:

When the depth of imaging is increased, the time it takes for the ultrasound pulses to travel to and from the deeper structures also increases, which can reduce the frame rate. To maintain the same frame rate, one effective adjustment is to decrease the image

width. Narrowing the image width reduces the number of scan lines required to create each frame, allowing the system to maintain a higher frame rate despite the increased depth.

ARDMS Sonography Principles and Instrumentation guidelines

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

NEW QUESTION # 88

In this image, which characteristics of flow are represented by the upper right side of a variance mode color map?



- A. Higher velocity, laminar with a positive Doppler shift
- **B. Higher velocity, turbulent with a positive Doppler shift**
- C. Higher velocity, turbulent with a negative Doppler shift
- D. Higher velocity, laminar with a negative Doppler shift

Answer: B

Explanation:

In a variance mode color map, the upper right side typically indicates higher velocity and turbulent flow with a positive Doppler shift. Variance mode maps are designed to display not only the mean velocity and direction of blood flow but also the presence of turbulence. The color green is often used in the upper right quadrant to represent areas of turbulence with positive Doppler shifts, which occur when the blood flow is moving towards the transducer at higher velocities and with increased chaotic motion.

References:

* ARDMS Sonography Principles and Instrumentation guidelines

* "Diagnostic Ultrasound: Physics and Equipment" by Peter Hoskins, Kevin Martin, Abigail Thrush

NEW QUESTION # 89

In this image, which characteristics of flow are represented by the upper right side of a variance mode color map?



- A. Higher velocity, laminar with a positive Doppler shift
- **B. Higher velocity, turbulent with a positive Doppler shift**
- C. Higher velocity, turbulent with a negative Doppler shift
- D. Higher velocity, laminar with a negative Doppler shift

Answer: B

Explanation:

In a variance mode color map, the upper right side typically indicates higher velocity and turbulent flow with a positive Doppler shift. Variance mode maps are designed to display not only the mean velocity and direction of blood flow but also the presence of turbulence. The color green is often used in the upper right quadrant to represent areas of turbulence with positive Doppler shifts, which occur when the blood flow is moving towards the transducer at higher velocities and with increased chaotic motion.

Reference:

ARDMS Sonography Principles and Instrumentation guidelines

"Diagnostic Ultrasound: Physics and Equipment" by Peter Hoskins, Kevin Martin, Abigail Thrush

NEW QUESTION # 90

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