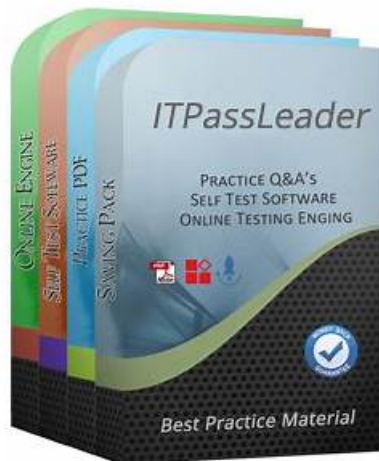


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ARDMS Sonography Principles and Instrumentation Sample Questions (Q58-Q63):

NEW QUESTION # 58

The calipers in this image measure which performance characteristic of a system?

- A. Dynamic range
- B. Lateral resolution
- C. Axial resolution
- **D. Depth measurement accuracy**

Answer: D

Explanation:

The calipers shown in the image are used to measure the depth of structures within the ultrasound image. This performance characteristic, known as depth measurement accuracy, assesses how accurately the ultrasound system can measure the distance from the transducer to a specific point within the body. Accurate depth measurements are crucial for diagnostic purposes, ensuring that anatomical and pathological structures are correctly identified and evaluated.

Reference:

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 # 59

Which artifact is demonstrated by the arrow in this image?

- A. Enhancement
- B. Noise
- C. Mirroring
- **D. Shadowing**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The image shows an area of signal dropout directly deep to the strongly reflecting structure (likely a vessel wall or calcification), indicated by the arrow. This is a classic example of shadowing artifact.

According to sonography Principles and Instrumentation:

"Shadowing occurs when a highly attenuating or reflective structure blocks the ultrasound beam, resulting in absence of signal distal to the object." Mirroring (A) produces duplicated structures.

Noise (B) appears as random speckles.

Enhancement (D) produces increased echogenicity distal to an anechoic structure.

Therefore, the correct answer is C: Shadowing.

-

NEW QUESTION # 60

Which adjustment improves temporal resolution?

- A. Decrease transmitted frequency
- B. Increase sector width
- **C. Decrease display depth**
- D. Increase number of focal zones

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Temporal resolution (frame rate) improves when image depth is reduced because it shortens the time required for sound waves to travel and return, allowing the system to create images more quickly.

According to sonography instrumentation reference:

"Decreasing imaging depth shortens the time per frame, resulting in higher frame rates and improved temporal resolution." Therefore, the correct answer is D: Decrease display depth.

NEW QUESTION # 61

What is required when interrogating higher blood velocities at angles closer to zero degrees?

- A. Increased Doppler scale settings
- B. Increased Doppler wall filter settings
- C. Decreased Doppler wall filter settings
- D. Decreased Doppler scale settings

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

When evaluating high blood velocities, especially at angles closer to zero degrees (which produces maximum Doppler shifts), aliasing can easily occur because the Doppler frequency shift increases. To avoid aliasing, you must increase the Doppler scale (which increases the pulse repetition frequency, PRF) to accommodate these higher velocities.

According to sonography instrumentation references:

"The Doppler scale (PRF) must be increased when high velocities are anticipated to prevent aliasing, especially at optimal Doppler angles near zero degrees where maximum frequency shifts occur." Therefore, the correct answer is C: Increased Doppler scale settings.

-

NEW QUESTION # 62

Which factor affects temporal resolution?

- A. Display depth
- B. Overall gain
- C. Log compression
- D. Time gain compensation

Answer: A

Explanation:

Temporal resolution refers to the ability of an ultrasound system to distinguish between events occurring closely in time. It is primarily affected by the frame rate, which is the number of frames displayed per second. One of the main factors that influence the frame rate is the display depth. The deeper the imaging depth, the longer it takes for the ultrasound pulses to travel to the target and back, thus reducing the frame rate and temporal resolution. Shallower imaging depths allow for higher frame rates and better temporal resolution.

Reference:

ARDMS Sonography Principles and Instrumentation (SPI) Exam Study Guide

"Diagnostic Ultrasound: Principles and Instruments" by Frederick W. Kremkau

NEW QUESTION # 63

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