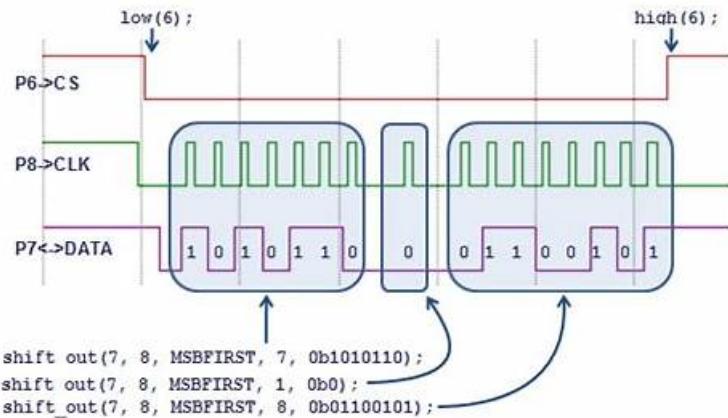


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ARDMS Sonography Principles and Instrumentation Sample Questions (Q93-Q98):

NEW QUESTION # 93

During 3-D volume acquisition, the quality of the images is most dependent upon which factor?

- A. Power output
- B. Speed of post-processing image compression
- C. Rendering method utilized
- D. Number of slices acquired**

Answer: D

Explanation:

During 3-D volume acquisition in ultrasound, the quality of the images is most dependent on the number of slices acquired. This is because the more slices (or planes) that are captured, the more detailed and accurate the reconstruction of the 3-D volume will be. This allows for better spatial resolution and more precise visualization of anatomical structures. Other factors, such as power output,

rendering methods, and speed of post-processing, also affect image quality but are secondary to the number of slices in terms of fundamental image acquisition quality.

Reference: ARDMS Sonography Principles and Instrumentation (SPI) Review, 3-D Ultrasound Imaging section.

NEW QUESTION # 94

Which characteristic of ultrasound transmission is directly proportional to an increase in frequency?

- A. Attenuation
- B. Wavelength
- C. Pulse duration
- D. Penetration

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

As frequency increases, attenuation (energy loss due to absorption, scattering, and reflection) also increases. This limits penetration but improves resolution for superficial structures.

According to sonography instrumentation reference:

"Attenuation increases directly with frequency, limiting penetration but enhancing resolution in superficial imaging." Therefore, the correct answer is C: Attenuation.

NEW QUESTION # 95

Which type of structure is best visualized with low persistence?

- A. Echogenic
- B. Anechoic
- C. Static
- D. Dynamic

Answer: D

Explanation:

Low persistence is best used for visualizing dynamic structures. Persistence is a setting that controls the averaging of successive frames to reduce noise and improve image quality. While high persistence can be beneficial for imaging static structures by providing a smoother image, it can blur or smear moving structures, making it difficult to visualize motion accurately. Low persistence settings allow for better temporal resolution and are therefore ideal for observing dynamic or moving structures such as the heart or blood flow.

References

* ARDMS Sonography Principles and Instrumentation (SPI) Exam Study Guide

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

NEW QUESTION # 96

What method can be used to resolve aliasing artifact?

- A. Using a higher frequency transducer
- B. Adjusting the output power
- C. Decreasing the pulse repetition frequency
- D. Using continuous wave Doppler ultrasound

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Continuous wave (CW) Doppler can measure very high velocities without aliasing because it does not have a Nyquist limit like pulsed-wave Doppler.

Principles and Instrumentation state:

"Aliasing is eliminated in continuous wave Doppler since it does not rely on sampling and has no upper velocity limit." Output power (A) affects signal strength, not aliasing.
Higher frequency (B) increases aliasing susceptibility.
Decreasing PRF (C) actually worsens aliasing.
Therefore, the correct answer is D: Using continuous wave Doppler ultrasound.

NEW QUESTION # 97

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



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

Answer: A

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.

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 # 98

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