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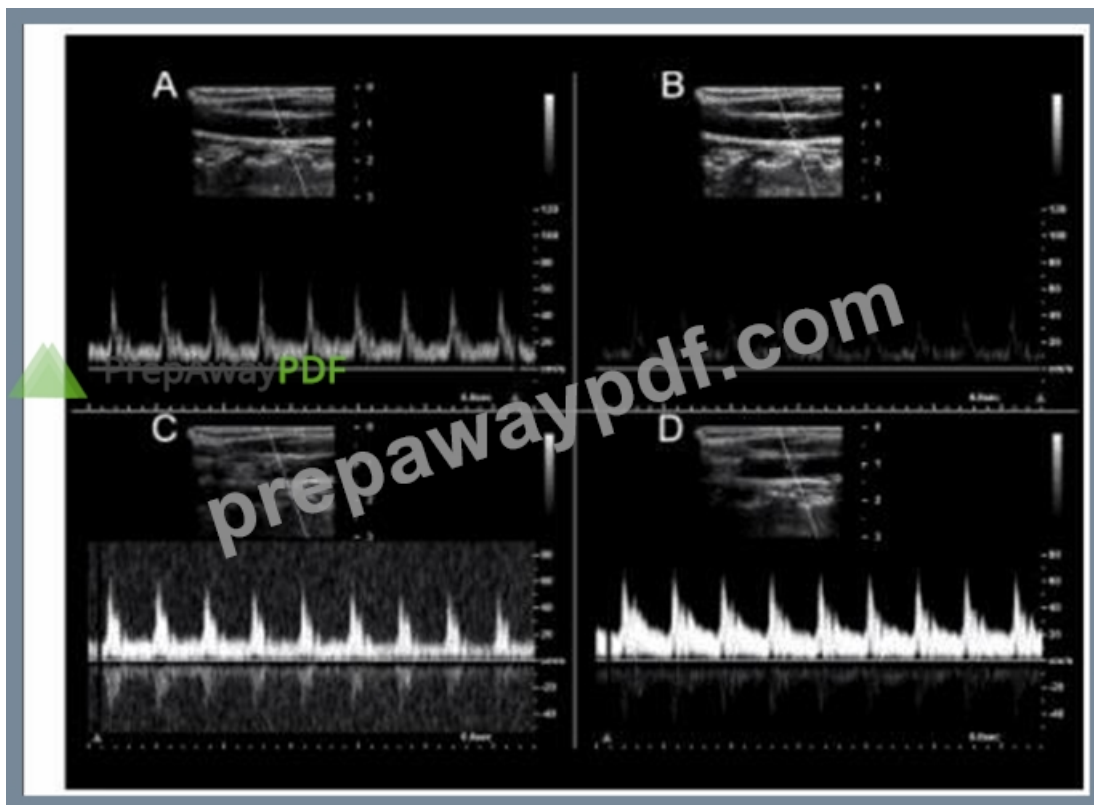
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ARDMS Sonography Principles and Instrumentation Sample Questions (Q117-Q122):

NEW QUESTION # 117

Which image demonstrates appropriate spectral Doppler gain?



- A. Option B
- B. Option A
- C. Option D
- D. Option C

Answer: A

Explanation:

Option B demonstrates appropriate spectral Doppler gain. Appropriate gain settings ensure that the Doppler signal is adequately amplified without introducing excessive noise or artifacts. In Option B, the spectral waveform is clearly visible with distinct borders, and the background noise is minimal. In contrast, other options might show either under-gained (too little signal) or over-gained (excessive noise and signal) images, making it difficult to accurately interpret the spectral Doppler information.

References:

* ARDMS Sonography Principles and Instrumentation guidelines

* "Understanding Ultrasound Physics" by Sidney K. Edelman

NEW QUESTION # 118

Which adjustment will improve visualization of blood flow if color extends outside the boundary of the vessel walls?

- A. Increasing depth
- B. Decreasing depth
- C. Decreasing wall filter
- D. Increasing wall filter

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

When color "bleeds" outside vessel walls, it often results from motion artifacts or noise from slow tissue motion being displayed as flow. Increasing the wall filter eliminates low-frequency Doppler shifts caused by motion, improving color accuracy within vessel boundaries.

According to sonography instrumentation reference:

"Raising the wall filter eliminates low-velocity signals from vessel wall motion, reducing the appearance of color outside the vessel lumen." Therefore, the correct answer is C: Increasing wall filter.

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NEW QUESTION # 119

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



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

Answer: B

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 # 120

How is intensity of an ultrasound beam measured?

- A. Reynold's number
- B. Doppler equation
- C. Autocorrelation
- **D. Hydrophone**

Answer: D

Explanation:

The intensity of an ultrasound beam is measured using a hydrophone. A hydrophone is a specialized device that detects and measures the acoustic pressure of the ultrasound waves in water or tissue-mimicking materials. It is highly sensitive and can measure the variations in pressure, which are used to calculate the intensity and other acoustic parameters of the ultrasound beam.

ARDMS Sonography Principles and Instrumentation guidelines

Hoskins, P. R., Thrush, A., Martin, K., & Whittingham, T. A. (2010). Diagnostic Ultrasound: Physics and Equipment.

NEW QUESTION # 121

Which factor causes posterior acoustic enhancement?

- A. High-frequency transducer
- B. Strongly attenuating structure
- C. Low-frequency transducer
- D. Weakly attenuating structure

Answer: D

Explanation:

High-Frequency Transducer: These provide better resolution but do not directly cause posterior enhancement.

Low-Frequency Transducer: These provide better penetration but are not the cause of posterior enhancement.

Strongly Attenuating Structure: This would cause acoustic shadowing rather than enhancement.

Weakly Attenuating Structure: Structures that attenuate the ultrasound beam less than the surrounding tissues allow more sound waves to pass through, resulting in increased brightness or "enhancement" behind the structure.

Reference:

"Ultrasound Physics and Instrumentation" by Frank Miele

ARDMS Sonography Principles and Instrumentation study materials

NEW QUESTION # 122

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