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ARDMS Sonography Principles and Instrumentation Sample Questions (Q76-Q81):

NEW QUESTION # 76

Which pulsed-wave Doppler adjustment would be appropriate to correct the aliasing seen in this image?



- A. Decrease the Doppler pulse repetition frequency.
- B. Decrease the spectral Doppler gain.
- C. Increase the spectral Doppler gain.
- **D. Increase the Doppler pulse repetition frequency.**

Answer: D

Explanation:

Aliasing in pulsed-wave Doppler occurs when the sampled Doppler frequency exceeds the Nyquist limit, which is half of the pulse repetition frequency (PRF). This results in an incorrect representation of the blood flow velocities, causing the waveform to wrap around and appear on the opposite side of the baseline. To correct aliasing, the PRF should be increased, which raises the Nyquist limit and allows for accurate measurement of higher velocities without aliasing. Increasing the PRF effectively reduces the likelihood of aliasing artifacts in the Doppler signal.

Reference:

American Registry for Diagnostic Medical Sonography (ARDMS). Sonography Principles and Instrumentation (SPI) Examination Review Guide.

NEW QUESTION # 77

Which adjustment resolves spectral Doppler aliasing?

- A. Increase time gain compensation
- B. Decrease velocity scale
- C. Increase sweep speed
- **D. Decrease transducer frequency**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Reducing transducer frequency lowers the Doppler shift for a given velocity (since Doppler shift is directly proportional to frequency), which helps avoid aliasing when high velocities are present.

According to sonography instrumentation reference:

"Lowering the transducer frequency decreases Doppler shift, reducing the likelihood of aliasing." Therefore, the correct answer is C: Decrease transducer frequency.

NEW QUESTION # 78

What is true regarding the display for color Doppler?

- A. A positive shift is always above the baseline
- B. A negative shift is always venous flow
- C. A positive shift is always red
- D. A negative shift always requires using a lower wall filter

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In color Doppler, frequency shifts can be displayed either above or below the baseline in spectral Doppler. In spectral Doppler, a positive shift is displayed above the baseline by default (unless inverted). In color Doppler, red/blue assignments depend on color map orientation.

Principles and Instrumentation state:

"A positive Doppler shift (flow toward the transducer) is displayed above the baseline in spectral Doppler."

* Red color (B) does not always correspond to positive shift; it depends on color map.

* Negative shift (C) does not always indicate venous flow.

* Wall filter settings (D) affect low-velocity signals, not shift direction.

Therefore, the correct answer is A: A positive shift is always above the baseline.

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NEW QUESTION # 79

Which factor affects temporal resolution?

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

Answer: C

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 # 80

Penetration can be improved by decreasing which setting?

- A. Frequency
- B. Gain
- C. Output power
- D. Sector width

Answer: A

Explanation:

In ultrasound imaging, penetration refers to the ability of the ultrasound beam to travel deeper into the tissue.

Lower frequency transducers produce sound waves with longer wavelengths, which are less attenuated by the tissues and therefore can penetrate deeper into the body. Conversely, higher frequency transducers produce sound waves with shorter wavelengths that provide better resolution but are more quickly attenuated, resulting in less penetration. Therefore, decreasing the frequency of the transducer improves penetration, allowing for better visualization of deeper structures.

American Registry for Diagnostic Medical Sonography (ARDMS). Sonography Principles and Instrumentation (SPI) Examination Review Guide.

NEW QUESTION # 81

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