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ARDMS Sonography Principles and Instrumentation Sample Questions (Q42-Q47):

NEW QUESTION # 42

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

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

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.

NEW QUESTION # 43

Which adjustment would reduce the noise in the Doppler waveform in this image?

- A. Increasing the gate size
- B. Decreasing velocity scale
- C. Increasing sweep speed
- D. **Decreasing Doppler gain**

Answer: D

Explanation:

Noise in the Doppler waveform can often be attributed to excessive gain settings. Decreasing the Doppler gain reduces the amplification of both the signal and the noise, thus providing a clearer and more accurate Doppler waveform. Excessive gain can cause speckling and clutter, which obscure the true Doppler signals. By reducing the gain, the noise level is minimized, resulting in a cleaner Doppler signal representation.

Reference:

ARDMS Sonography Principles & Instrumentation Guidelines
Hagen-Ansert SL. Textbook of Diagnostic Ultrasonography. 8th ed. St. Louis, MO: Mosby; 2017.

NEW QUESTION # 44

Which settings will lead to the highest temporal resolution?

- A. 60-degree sector width, 5 cm scan depth, color Doppler off
- B. 45-degree sector width, 4 cm scan depth, color Doppler on
- C. **45-degree sector width, 4 cm scan depth, color Doppler off**
- D. 60-degree sector width, 5 cm scan depth, color Doppler on

Answer: C

Explanation:

The settings that lead to the highest temporal resolution are those that reduce the amount of information that the ultrasound system needs to process, allowing for a higher frame rate. A smaller sector width and shallower scan depth reduce the area that needs to be imaged, enabling faster data acquisition. Turning off color Doppler further reduces processing demands, as the system no longer needs to compute and display color flow information. Therefore, a 45-degree sector width, 4 cm scan depth, and color Doppler off will provide the highest temporal resolution.

Reference:

ARDMS Sonography Principles and Instrumentation (SPI) Exam Study Guide
"Diagnostic Ultrasound: Principles and Instruments" by Frederick W. Kremkau

NEW QUESTION # 45

What artifact is indicated by the arrows in the image below?

- A. Grating lobe
- B. Enhancement
- C. **Ring down**
- D. Refraction

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The image shows a bright, continuous, vertical band extending from a gas-containing structure (seen at the top). This is characteristic of ring down artifact, which occurs when multiple small gas bubbles resonate and create continuous echoes below the structure. According to sonography instrumentation reference:

"Ring down artifact results from resonance of gas bubbles, producing a continuous series of echoes distal to the source. It appears as a bright, vertical band that does not fade with depth." Therefore, the correct answer is A: Ring down.

NEW QUESTION # 46

What is effected by increasing the color scale?

- A. The color box width decreases
- **B. The Nyquist limit is increased**
- C. The color priority decreases
- D. More colors are displayed

Answer: B

Explanation:

The Nyquist limit, which is the maximum detectable velocity before aliasing occurs, is directly related to the pulse repetition frequency (PRF). Increasing the color scale on the ultrasound machine effectively increases the PRF. When the PRF is increased, the Nyquist limit is also increased, allowing for the measurement of higher velocities without aliasing.

Reference:

ARDMS Sonography Principles and Instrumentation guidelines

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

NEW QUESTION # 47

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