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ARDMS SPI Practice Test A

Questions and Answers

1. Which parameter is most likely to affect spatial resolution?

- A.dynamic range
- B.beam width
- C.system sensitivity
- D.depth of visualization

Answer D.depth of visualization

2. When using a 5MHZ transducer, in which tissue is the ultrasound wave-length shortest?

- A.fat
- B.blood
- C.bone
- D.muscle

Answer A.fat

3. What affects the beam width in the near field?

- A.Pulse repetition frequency
- B.Pulse duration
- C.Frame rate
- D.Transducer aperture

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ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Optimize Sonographic Images: This section of the exam measures skills of Diagnostic Medical Sonographers and assesses their ability to enhance image quality using advanced optimization techniques. It includes understanding axial, lateral, elevational, and temporal resolution, as well as manipulating gain, depth, magnification, and dynamic range. Examinees are expected to apply harmonic imaging, spatial compounding, and gray-scale techniques to produce clear, accurate diagnostic images.

Topic 2	<ul style="list-style-type: none"> • Manage Ultrasound Transducers: This section of the exam measures skills of Ultrasound Technicians and focuses on the management and proper use of different types of transducers. It evaluates knowledge of transducer components, frequency selection, and application of various 2D, 3D, 4D, and nonimaging transducer concepts. Candidates must show they can choose the appropriate transducer for specific examinations and make necessary frequency adjustments to ensure image quality.
Topic 3	<ul style="list-style-type: none"> • Perform Ultrasound Examinations: This section of the exam measures skills of Sonographers and covers how to conduct ultrasound procedures while ensuring patient safety and diagnostic accuracy. It includes understanding of imaging protocols, ergonomics, patient care, and the interaction between sound and tissue. Candidates are expected to demonstrate abilities to manage patient encounters, apply 3D • 4D and contrast imaging concepts, identify and correct artifacts, and follow confidentiality and privacy standards throughout the scanning process.
Topic 4	<ul style="list-style-type: none"> • Provide Clinical Safety and Quality Assurance: This section of the exam measures skills of Clinical Ultrasound Supervisors and focuses on maintaining safety and quality standards in ultrasound practice. It includes infection control protocols, transducer and machine integrity checks, and quality assurance testing using tissue-mimicking phantoms. The section also requires familiarity with statistical parameters like sensitivity and specificity to evaluate diagnostic performance and ensure consistent, reliable imaging outcomes.
Topic 5	<ul style="list-style-type: none"> • Apply Doppler Concepts: This section of the exam measures skills of Vascular Sonographers and evaluates understanding and application of Doppler ultrasound principles. It includes knowledge of Doppler angle, flow dynamics, and color and spectral Doppler imaging. The section also covers eliminating aliasing, interpreting waveforms, applying continuous and pulsed wave Doppler, and optimizing Doppler gain and scale to accurately measure blood flow and velocity within vessels.

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ARDMS Sonography Principles and Instrumentation Sample Questions (Q179-Q184):

NEW QUESTION # 179

Which function should be decreased in order to minimize potential bioeffects?

- A. Depth
- **B. Output power**
- C. Dynamic Range
- D. Frequency

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Output power directly affects the intensity of the ultrasound beam transmitted into the patient. Reducing output power lowers the risk of both thermal and mechanical bioeffects.

According to sonography instrumentation reference:

"Output power should be minimized following the ALARA (As Low As Reasonably Achievable) principle to reduce potential bioeffects while still obtaining diagnostic-quality images." Therefore, the correct answer is B: Output power.

NEW QUESTION # 180

Which color Doppler control allows for reassignment of red and blue to represent flow direction?

- A. Color invert
- B. Color gain
- C. Color threshold
- D. Color priority

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In color Doppler imaging, the default color map assigns red and blue to represent flow direction relative to the transducer (usually red toward, blue away). The color invert control reverses this assignment.

According to sonography Principles and Instrumentation:

"The color invert control reverses the baseline of the color map, swapping red and blue assignments for flow direction." Color priority adjusts the overlay of color vs grayscale.

Color gain controls amplification of the Doppler signal.

Color threshold sets minimum amplitude to display color.

Therefore, the correct answer is D: Color invert.

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NEW QUESTION # 181

Which change can be made in order to avoid exceeding the Nyquist limit?

- A. Decrease pulse repetition frequency
- B. Increase output power
- C. Increase pulse repetition frequency
- D. Decrease output power

Answer: C

Explanation:

To avoid exceeding the Nyquist limit and prevent aliasing in Doppler ultrasound, the pulse repetition frequency (PRF) should be increased. The Nyquist limit is half of the PRF, so by increasing the PRF, the Nyquist limit is raised, allowing the system to accurately measure higher velocities without encountering aliasing artifacts.

ARDMS Sonography Principles and Instrumentation guidelines

Zwiebel, W. J., & Pellerito, J. S. (2017). Introduction to Vascular Ultrasonography. Elsevier.

NEW QUESTION # 182

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.

References:

ARDMS Sonography Principles & Instrumentation Guidelines

Hagen-Ansert SL. Textbook of Diagnostic Ultrasonography. 8th ed. St. Louis, MO: Mosby; 2017.

NEW QUESTION # 183

What is a potential negative consequence of using a high wall filter?

- A. Penetration is reduced
- **B. Desired signal may be eliminated**
- C. Too much noise may appear on the image
- D. Aliasing could occur

Answer: B

Explanation:

A high wall filter is used in Doppler ultrasound to eliminate low-frequency signals that may be attributed to vessel wall motion or other low-velocity flows. However, if the wall filter is set too high, it can inadvertently eliminate desired low-frequency Doppler signals that represent real blood flow, particularly in smaller vessels or those with slower flow velocities. This results in a loss of valuable diagnostic information.

Reference: ARDMS Sonography Principles and Instrumentation (SPI) Review, Doppler Ultrasound section.

NEW QUESTION # 184

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