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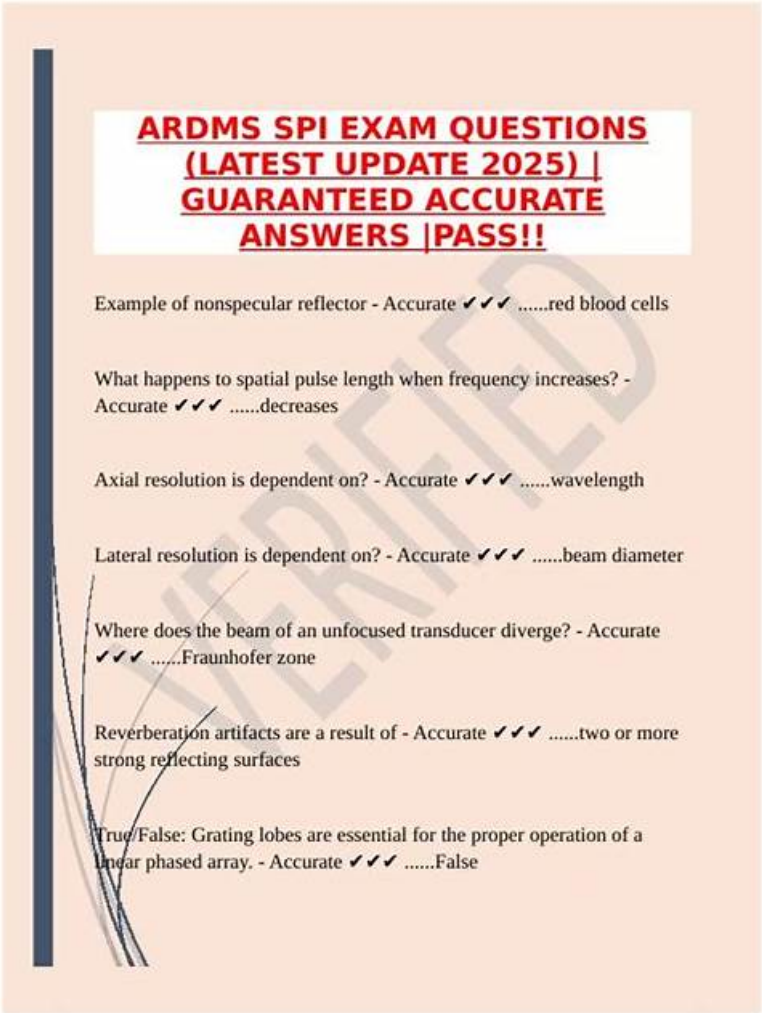

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ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	• Perform Ultrasound Examinations: This topic discusses patient care, sonographic ergonomic techniques, echogenicity, reverberation, and potential bioeffects. It also discusses beam steering concepts, panoramic imaging, 3D • 4D concepts, and contrast imaging concepts.
Topic 2	• Provide Clinical Safety & Quality Assurance: This topic covers universal infection control protocols, QA check on ultrasound machine, transducer integrity, ultrasound machine integrity, and statistical parameter concepts.
Topic 3	• Manage Ultrasound Transducers: It delves into 2D array transducer concepts, 3D • 4D transducer concepts, and nonimaging transducer concepts.
Topic 4	• Optimize Sonographic Images: The topic focuses on optimization of axial resolution concepts, optimization of lateral resolution concepts, optimization of elevational resolution concepts, optimization of temporal resolution concepts, and magnification techniques.
Topic 5	• Apply Doppler Concepts: It discusses Doppler wall filter concepts, Doppler sample gate concepts, y color priority over gray scale concepts, and concepts related to color Doppler map. Furthermore, it discusses concepts to eliminate aliasing, continuous wave Doppler concepts, and color Doppler scale concepts.

ARDMS Sonography Principles and Instrumentation Sample Questions (Q68-Q73):

NEW QUESTION # 68
Which artifact occurs when there is increased amplification of reflectors distal to a low-attenuating structure?

- A. Mirror image
- B. Refraction
- C. Reverberation
- D. Enhancement

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
When the ultrasound beam travels through a structure that attenuates less than surrounding tissues, more energy reaches structures located deeper. This results in stronger echo signals from those deeper structures, which is visualized as a brightening or enhancement distal to the structure. This is referred to as acoustic enhancement or posterior enhancement.
Official sonography instrumentation reference states:
"Enhancement occurs as a result of reduced attenuation of the sound beam as it passes through fluid-filled or weakly attenuating structures, causing reflectors distal to the structure to appear more echogenic than normal." Therefore, the correct answer is B: Enhancement.

NEW QUESTION # 69
What is required when interrogating higher blood velocities at angles closer to zero degrees?

- A. Increased Doppler scale settings
- B. Increased Doppler wall filter settings
- C. Decreased Doppler scale settings

- D. Decreased Doppler wall filter settings

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
When evaluating high blood velocities, especially at angles closer to zero degrees (which produces maximum Doppler shifts), aliasing can easily occur because the Doppler frequency shift increases. To avoid aliasing, you must increase the Doppler scale (which increases the pulse repetition frequency, PRF) to accommodate these higher velocities.
According to sonography instrumentation references:
"The Doppler scale (PRF) must be increased when high velocities are anticipated to prevent aliasing, especially at optimal Doppler angles near zero degrees where maximum frequency shifts occur." Therefore, the correct answer is C: Increased Doppler scale settings.
-

NEW QUESTION # 70
Why is a higher frequency transducer a better choice for imaging superficial structures?

- A. Longer spatial pulse length
- B. Decreased attenuation
- C. Improved axial resolution
- D. Increased pulse repetition period

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Higher frequency transducers provide better axial resolution due to their shorter wavelengths and spatial pulse lengths. This allows finer detail when imaging superficial structures where penetration is not a concern.
According to sonography instrumentation reference:
"Higher frequencies result in shorter pulse lengths, improving axial resolution and making them ideal for superficial imaging."
Therefore, the correct answer is D: Improved axial resolution.
-

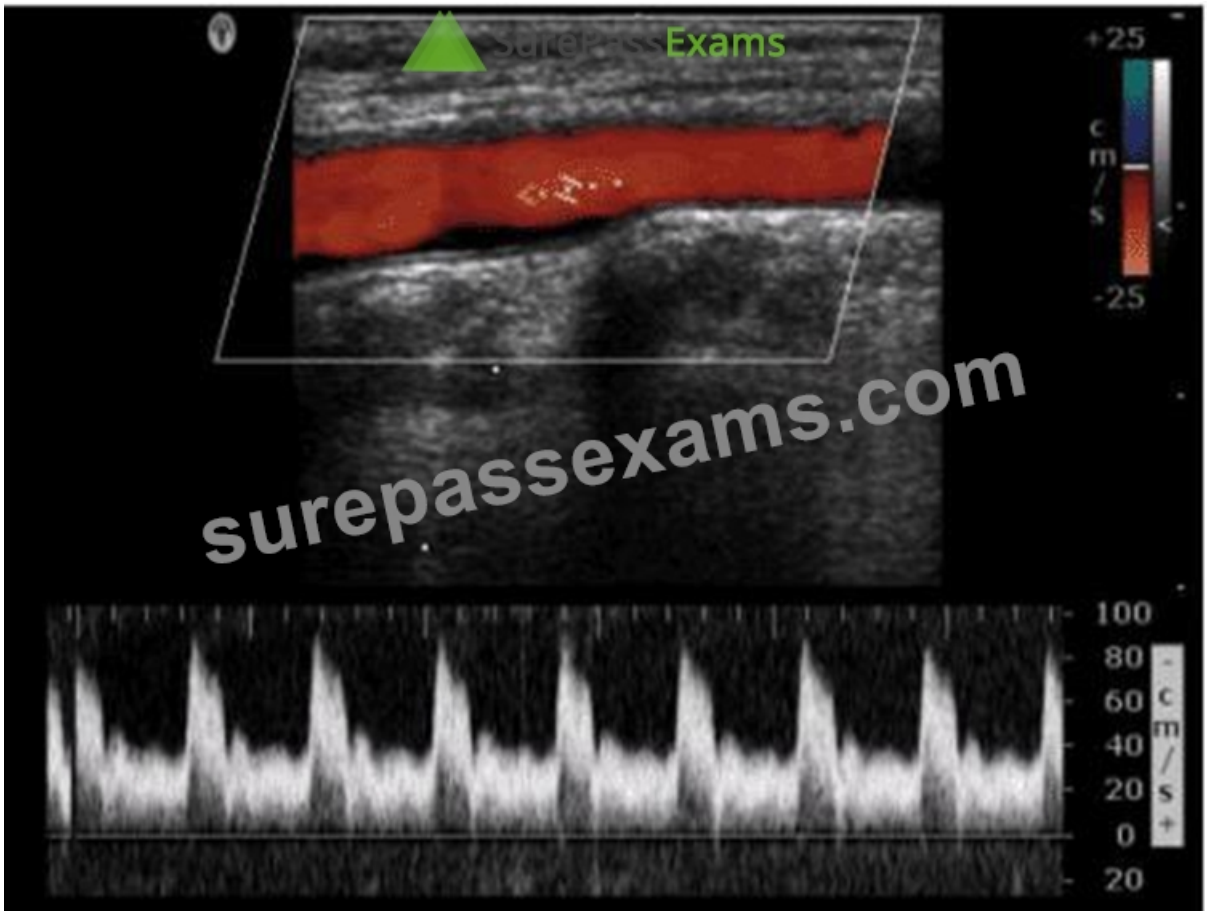
NEW QUESTION # 71
What causes color flash artifact?

- A. Tissue motion
- B. Strong reflector
- C. Aliasing
- D. High velocity blood flow

Answer: A

Explanation:
Color flash artifact occurs due to tissue motion. This artifact is a type of color Doppler artifact that happens when there is movement of tissue or transducer, which causes the Doppler system to incorrectly interpret the motion as blood flow. This results in a flash of color appearing on the image where there is actually no flow.
Tissue motion affects the Doppler signal, leading to misinterpretation by the system, and hence the artifact appears as a flash of color.
References
* ARDMS Sonography Principles and Instrumentation (SPI) Exam Study Guide
* "Diagnostic Ultrasound: Principles and Instruments" by Frederick W. Kremkau

NEW QUESTION # 72
Which adjustment would reduce the noise in the Doppler waveform in this image?



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

Answer: B

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 # 73
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