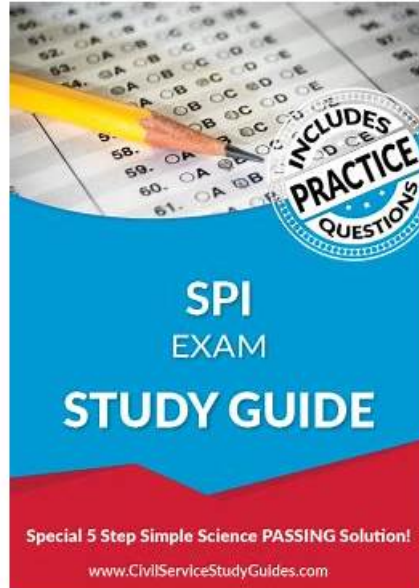


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ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	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.

Topic 3	• Manage Ultrasound Transducers: It delves into 2D array transducer concepts, 3D • 4D transducer concepts, and nonimaging transducer concepts.
Topic 4	• 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 5	• 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.

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ARDMS Sonography Principles and Instrumentation Sample Questions (Q73-Q78):

NEW QUESTION # 73

Which color Doppler setting can be optimized to eliminate low-frequency Doppler shifts without having any effect on higher Doppler frequency shifts?

- A. Scale
- **B. Wall filter**
- C. Persistence
- D. Gain

Answer: B

Explanation:

The wall filter is used in color Doppler and spectral Doppler imaging to eliminate low-frequency Doppler shifts caused by tissue motion or vessel wall movement. Adjusting the wall filter removes these low-frequency signals without affecting higher-frequency Doppler shifts that represent blood flow. Other settings like gain, scale, and persistence do not selectively filter out low-frequency shifts in the same manner.

References:

American Registry for Diagnostic Medical Sonography (ARDMS) Sonography Principles and Instrumentation guidelines.

NEW QUESTION # 74

Which adjustment would eliminate aliasing in the Doppler waveform in this image?

A close-up of an ultrasound Description automatically generated



- A. Decrease Doppler gain.
- B. Increase sample size.
- C. Increase velocity scale.
- D. Decrease wall filter.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Aliasing occurs when Doppler frequency shifts exceed the Nyquist limit (which equals half the pulse repetition frequency). Increasing the velocity scale (which increases PRF) raises the Nyquist limit, reducing or eliminating aliasing.

Principles and Instrumentation state:

"Aliasing in pulsed-wave Doppler can be corrected by increasing the pulse repetition frequency (velocity scale), allowing higher velocities to be displayed without wraparound."

* Decreasing gain affects amplitude, not aliasing.

* Wall filter adjustments remove low-velocity signals, not aliasing.

* Increasing sample size affects spatial resolution and may reduce frame rate but does not address aliasing.

Therefore, the correct answer is C: Increase velocity scale.

NEW QUESTION # 75

Why is a higher frequency transducer a better choice for imaging superficial structures?

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

Answer: B

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:

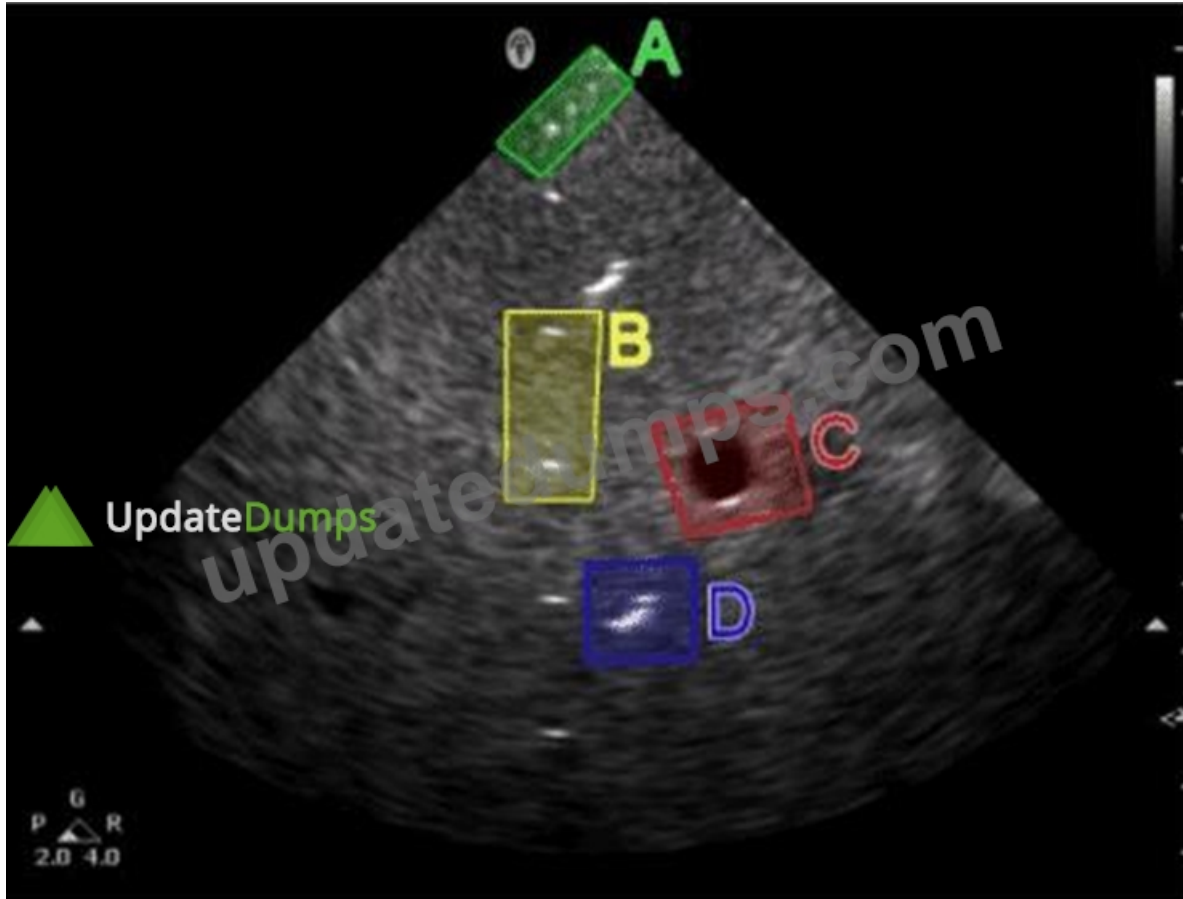
"Higher frequencies result in shorter pulse lengths, improving axial resolution and making them ideal for superficial imaging."

Therefore, the correct answer is D: Improved axial resolution.

-

NEW QUESTION # 76

Which target group in this image of a tissue-mimicking phantom is used to evaluate axial resolution?



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

Answer: D

Explanation:

In the given image of a tissue-mimicking phantom, Option B (yellow box) is used to evaluate axial resolution.

Axial resolution refers to the ability of the ultrasound system to distinguish between two structures that are close to each other along the path of the ultrasound beam (i.e., parallel to the beam). The targets in Option B are typically aligned in such a way to test the system's capacity to differentiate between structures that are situated closely together along the beam's axis.

References:

* ARDMS Sonography Principles and Instrumentation guidelines

* "Sonography: Principles and Instruments" by Joan P. Baker and Marveen Craig

NEW QUESTION # 77

What does this image demonstrate?



- A. Direction of flow
- B. Presence of flow
- C. Color inversion
- D. Color aliasing

Answer: D

Explanation:

Color aliasing in Doppler ultrasound occurs when the velocity of blood flow exceeds the Nyquist limit, causing the color display to wrap around and display high velocities incorrectly as the opposite direction. This phenomenon is characterized by a mix of colors that indicate flow in both directions at the same location. In the provided image, there is a clear presence of color aliasing, as evidenced by the abrupt color change across the vessel, which is not consistent with normal flow patterns.

References:

American Registry for Diagnostic Medical Sonography (ARDMS) Sonography Principles and Instrumentation guidelines.

NEW QUESTION # 78

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