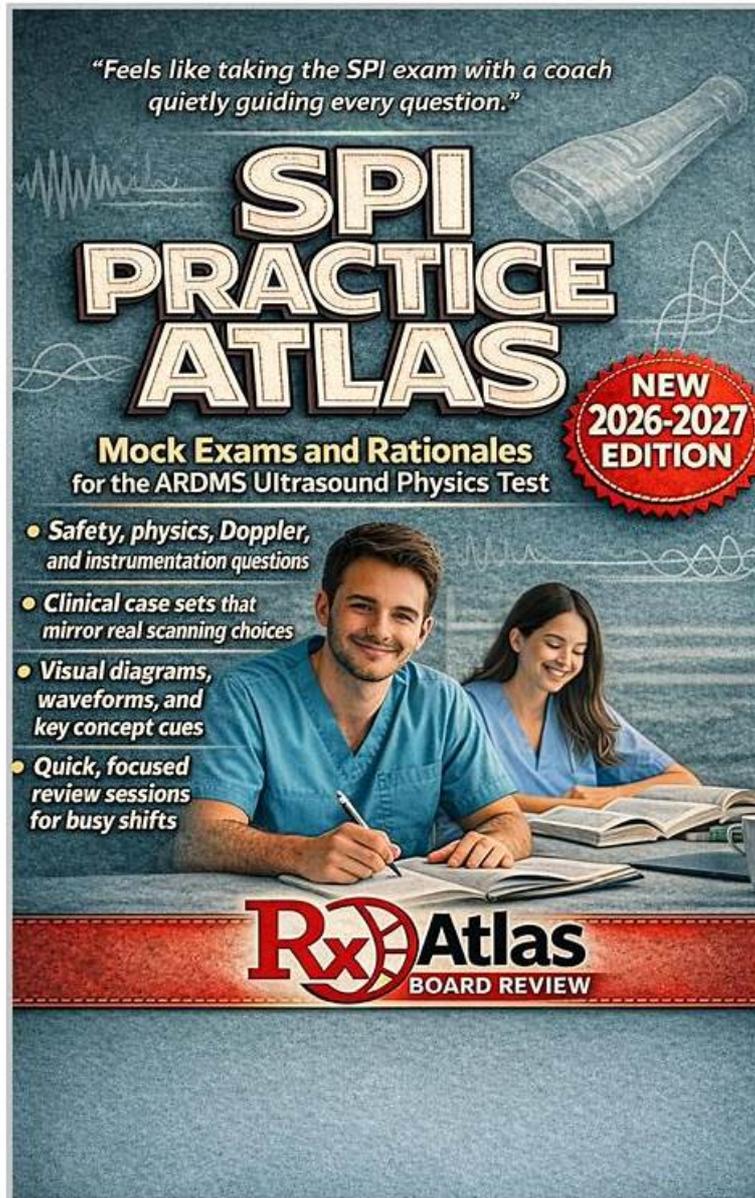


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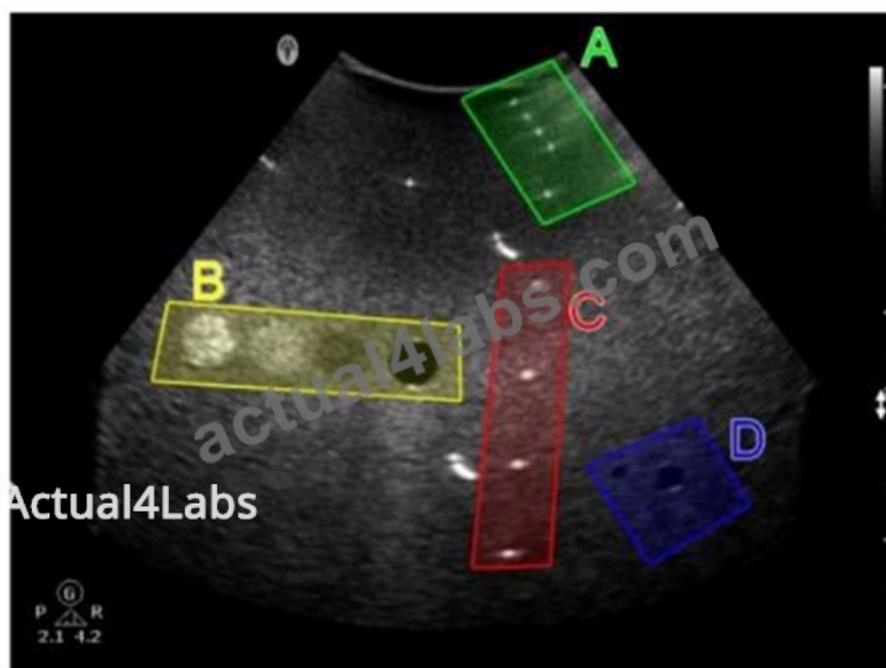
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ARDMS Sonography Principles and Instrumentation Sample Questions (Q28-Q33):

NEW QUESTION # 28

Which target group in this image of a tissue-mimicking phantom is used for gray-scale evaluation?



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

Answer: D

Explanation:

Gray-scale evaluation in a tissue-mimicking phantom involves assessing the uniformity and accuracy of the gray-scale representation of the tissues.

Option C typically contains structures designed to test the machine's ability to accurately depict varying levels of echogenicity, which is essential for proper gray-scale evaluation.

This area will have a range of echo intensities that help in determining the contrast resolution and the ability of the system to distinguish between different tissue types based on their gray-scale values. Reference:

ARDMS Sonography Principles and Instrumentation guidelines on tissue-mimicking phantoms and image quality evaluation.

NEW QUESTION # 29

According to Poiseuille's law, a change in which parameter would have the greatest influence on blood flow?

- A. Pressure gradient
- B. Viscosity of the fluid
- C. Length of vessel
- D. Vessel radius

Answer: D

Explanation:

According to Poiseuille's law, the flow rate of a fluid through a vessel is directly proportional to the fourth power of the vessel's radius. Therefore, a small change in the radius of the vessel has a much larger effect on blood flow compared to changes in pressure gradient, length of the vessel, or viscosity of the fluid.

ARDMS Sonography Principles and Instrumentation guidelines
Poiseuille's law in medical physics and hemodynamics literature.

NEW QUESTION # 30

How is the wavelength affected when switching from a 10 MHz transducer to a 5 MHz transducer?

- A. Halves
- B. Doubles
- C. Quadruples
- D. Quarters

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Wavelength is inversely proportional to frequency according to the equation:

Wavelength (#) = Propagation speed (c) / Frequency (f)

If frequency decreases from 10 MHz to 5 MHz, the wavelength increases by a factor of 2 (doubles).

Principles and Instrumentation state:

"As frequency decreases, wavelength increases. Halving the frequency results in doubling the wavelength." Therefore, the correct answer is D: Doubles.

-

NEW QUESTION # 31

Which factor will improve axial resolution?

- A. Increasing the focal zone
- B. Reducing the number of cycles per pulse
- C. Decreasing the frame rate
- D. Changing the gray-scale map

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Axial resolution depends on spatial pulse length (SPL), which is determined by the number of cycles per pulse. Fewer cycles per pulse shorten the SPL, thereby improving axial resolution and allowing better separation of closely spaced structures along the beam axis.

According to sonography instrumentation reference:

"Axial resolution improves with fewer cycles per pulse, which decreases the spatial pulse length and allows better discrimination of structures along the beam path." Therefore, the correct answer is B: Reducing the number of cycles per pulse.

-

NEW QUESTION # 32

What is an advantage of power Doppler over color Doppler?

- A. Accurate velocity information

- B. Less angle dependent
- C. Diminished flash artifact
- D. Increased frame rate

Answer: B

Explanation:

Power Doppler, unlike color Doppler, is less angle dependent because it detects the strength of the Doppler signal rather than the velocity of the blood flow. This means it is more sensitive to detecting low-velocity flow and flow in smaller vessels, regardless of the angle between the ultrasound beam and the flow direction. Color Doppler provides information on flow direction and velocity but is highly dependent on the angle of insonation, making it less reliable when the angle is suboptimal.

Reference:

ARDMS Sonography Principles and Instrumentation guidelines

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

NEW QUESTION # 33

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