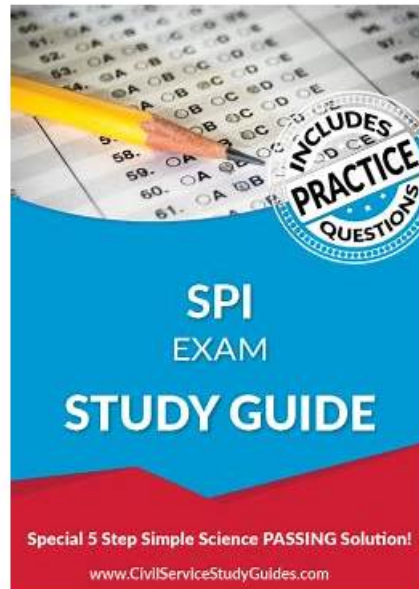


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ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	<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 and 4D and contrast imaging concepts, identify and correct artifacts, and follow confidentiality and privacy standards throughout the scanning process.
Topic 2	<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 3	<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.
Topic 4	<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 5	<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.

ARDMS Sonography Principles and Instrumentation Sample Questions (Q35-Q40):

NEW QUESTION # 35

What is an advantage of pulsed-wave Doppler over continuous-wave Doppler?

- A. High signal-to-noise ratio
- B. Unlimited maximum detectable velocity
- C. Range resolution
- D. Increased sensitivity to slow flow

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The primary advantage of pulsed-wave Doppler is its ability to provide range resolution. This means the operator can select a specific depth (sample volume) from which Doppler signals are acquired, allowing precise localization of blood flow velocities. According to sonography instrumentation reference:

"Pulsed-wave Doppler allows for range resolution, enabling velocity measurements at a specific depth along the ultrasound beam path." Continuous-wave Doppler does not have range resolution, as it measures velocities along the entire beam path.

Therefore, the correct answer is C: Range resolution.

-

NEW QUESTION # 36

Which type of resolution will be improved by decreasing the depth of field?

- A. Temporal
- **B. Lateral**
- C. Axial
- D. Elevational

Answer: B

Explanation:

Lateral resolution refers to the ability to distinguish two structures that are side by side. It is dependent on the width of the ultrasound beam. By decreasing the depth of field, the beam width is reduced at any given point along the depth, which improves the lateral resolution. This is because a narrower beam can better distinguish between objects that are close together laterally.

Reference:

ARDMS Sonography Principles and Instrumentation guidelines

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

NEW QUESTION # 37

What is the effect of an increased aperture in a linear array transducer?

- A. Shorter near-field length
- **B. Deeper focus**
- C. Decreased temporal resolution
- D. Improved axial resolution

Answer: B

Explanation:

The aperture of a transducer is the active area that emits and receives the ultrasound waves. In a linear array transducer, increasing the aperture (using more elements for transmission and reception) results in a deeper focus because the beam is more tightly focused over a longer distance. This improves lateral resolution at greater depths, as the ultrasound beam maintains a narrower width for a longer distance. It allows for better imaging of deeper structures without sacrificing resolution.

Reference:

American Registry for Diagnostic Medical Sonography (ARDMS). Sonography Principles and Instrumentation (SPI) Examination Review Guide.

NEW QUESTION # 38

At which angle to blood flow would the maximum Doppler shift occur?

- **A. 0 degrees**
- B. 90 degrees
- C. 30 degrees
- D. 60 degrees

Answer: A

Explanation:

The Doppler shift is highest when the angle between the ultrasound beam and the direction of blood flow is 0 degrees. This is because the cosine of 0 degrees is 1, maximizing the Doppler frequency shift. As the angle increases towards 90 degrees, the cosine value decreases, reducing the Doppler shift.

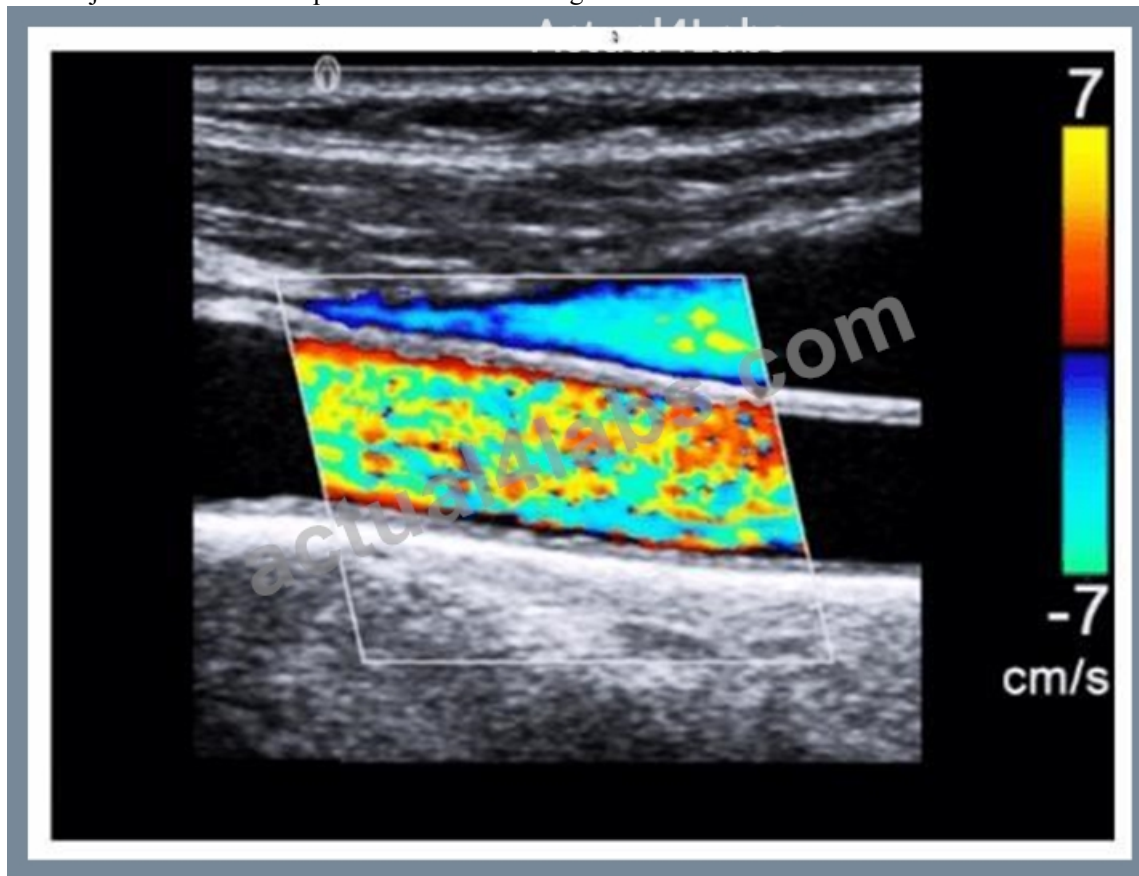
Reference:

ARDMS Sonography Principles and Instrumentation guidelines

Hoskins, P. R., Thrush, A., Martin, K., & Whittingham, T. A. (2010). Diagnostic Ultrasound: Physics and Equipment.

NEW QUESTION # 39

What adjustment is needed to optimize the color in the image below?



- A. Decrease persistence
- **B. Increase pulse repetition frequency**
- C. Decrease gain
- D. Increase wall filter

Answer: B

Explanation:

- * Increasing the pulse repetition frequency (PRF) helps to optimize the color Doppler imaging by reducing aliasing.
 - * Aliasing occurs when the PRF is too low to accurately sample the rapid blood flow velocities, leading to incorrect color representation.
 - * By increasing the PRF, the system can more accurately measure higher velocities without distortion, improving the overall quality of the color Doppler image.
- References:
- * ARDMS Sonography Principles and Instrumentation guidelines on Doppler imaging and techniques to reduce aliasing.

NEW QUESTION # 40

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