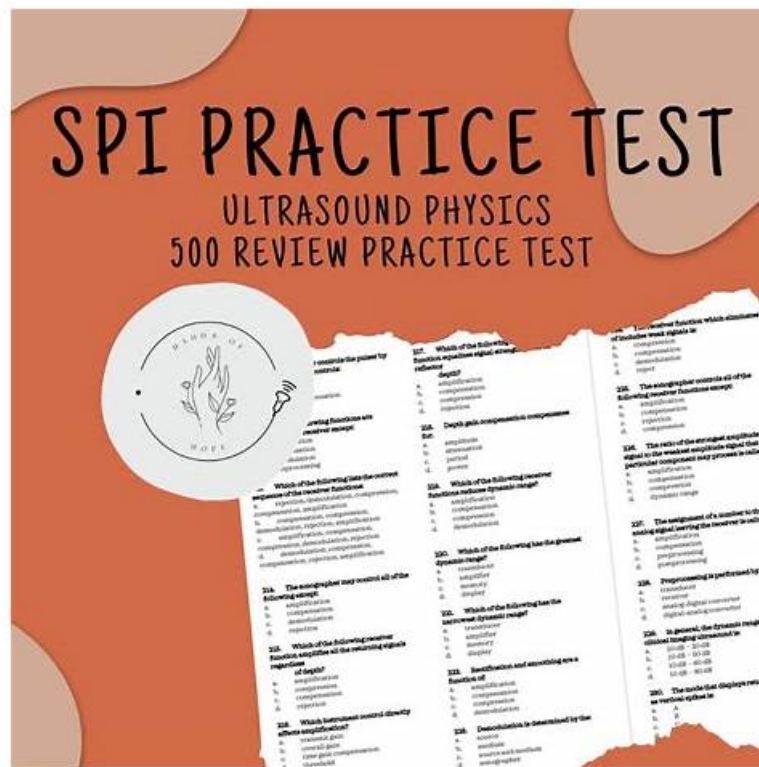


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ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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 5	<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.

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Exam SPI Price - Top SPI Questions

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ARDMS Sonography Principles and Instrumentation Sample Questions (Q201-Q206):

NEW QUESTION # 201

What determines the resonant frequency of a pulsed wave transducer?

- A. Element diameter and element thickness
- **B. Element thickness and speed of sound in element**
- C. Element thickness and pulse repetition frequency
- D. Element diameter and speed of sound in element

Answer: B

Explanation:

The resonant frequency of a pulsed wave transducer is determined by the thickness of the piezoelectric element and the speed of sound within that element. The resonant frequency is inversely proportional to the element thickness and directly proportional to the speed of sound in the material. Thinner elements and higher sound speeds result in higher resonant frequencies, while thicker elements and lower sound speeds result in lower resonant frequencies.

ARDMS Sonography Principles and Instrumentation guidelines

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

NEW QUESTION # 202

Which is a method to reduce noise?

- A. Increase frequency
- B. Decrease beam width
- C. Decrease depth
- **D. Increase persistence**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Persistence averages multiple frames to smooth out random noise fluctuations, reducing the appearance of noise in the image and improving image quality.

According to sonography instrumentation reference:

"Persistence reduces noise by averaging data from consecutive frames, improving signal-to-noise ratio and producing a smoother image." Therefore, the correct answer is D: Increase persistence.

-

NEW QUESTION # 203

What would increase with an increase in acoustic power?

- A. Wavelength
- B. Impedance
- C. Frequency
- D. Thermal Index

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The thermal index (TI) indicates the potential for tissue heating due to ultrasound energy absorption. Increasing acoustic power increases the amount of energy transmitted into the body, which raises the thermal index.

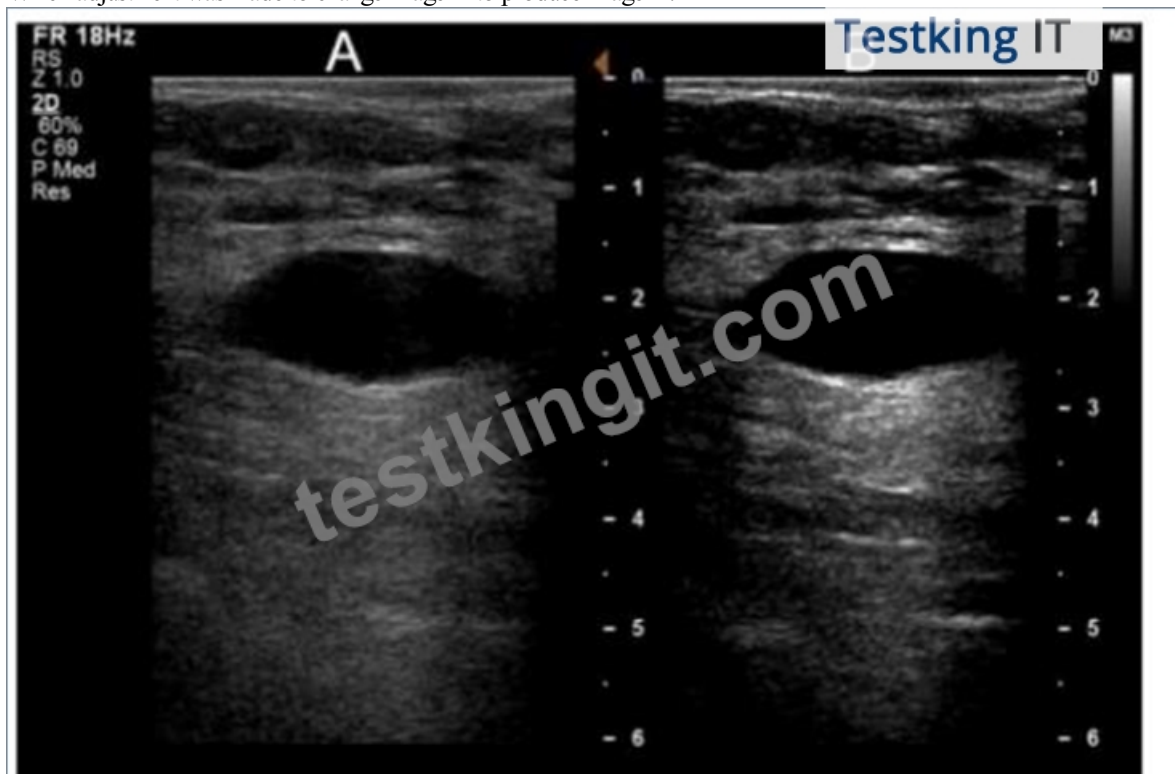
According to sonography instrumentation reference:

"An increase in acoustic output power results in a corresponding increase in the thermal index, reflecting higher potential for tissue heating." Therefore, the correct answer is C: Thermal Index.

-

NEW QUESTION # 204

Which adjustment was made to change image A to produce image B?



- A. Increased overall gain
- B. Decreased overall gain
- C. Decreased dynamic range
- D. Increased dynamic range

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In Image B, compared to Image A, you can observe a higher contrast image with darker darks and brighter brights, indicating that dynamic range has been reduced. Decreasing dynamic range results in less grey scale, creating a more black-and-white appearance and emphasizing contrast differences.

According to sonography instrumentation reference:

"Reducing dynamic range increases image contrast by narrowing the range of displayed echo intensities, making the image appear more black and white." Therefore, the correct answer is D: Decreased dynamic range.

-

NEW QUESTION # 205

Which statement describes the purpose of using a spectral Doppler wall filter?

- A. To widen the area in which the Doppler shift is sampled
- **B. To eliminate the lower velocity signals**
- C. To clean up the audio signals
- D. To eliminate the higher velocity signals

Answer: B

Explanation:

The purpose of using a spectral Doppler wall filter is to eliminate lower velocity signals. Wall filters are designed to remove low-frequency Doppler shifts caused by the motion of the vessel walls or surrounding tissues, which are generally of no diagnostic value. By eliminating these lower velocity signals, the wall filter helps to clean up the Doppler signal and reduce clutter, allowing for a clearer and more accurate display of blood flow velocities.

Reference:

ARDMS Sonography Principles and Instrumentation (SPI) Exam Study Guide

"Diagnostic Ultrasound: Principles and Instruments" by Frederick W. Kremkau

NEW QUESTION # 206

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