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As you can find that there are three versions of our SPI exam questions: the PDF, Software and APP online. Among them, the Software version has the function to stimulate the exam which can help the learners be adjusted to the atmosphere, pace and environment of the Real SPI Exam. So our Software version of our SPI learning guide can help you learn the study materials and prepare for the test better if you already know all the information about the real exam.

ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 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"> • 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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ARDMS Sonography Principles and Instrumentation Sample Questions (Q170-Q175):

NEW QUESTION # 170

Which technique averages image frames over time to reduce noise?

- A. Time gain compensation
- B. Demodulation
- C. Persistence
- D. Compression

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Persistence is a post-processing technique that averages multiple consecutive image frames to reduce random noise and improve image smoothness. This is especially useful for reducing speckle and enhancing the clarity of stationary or slow-moving structures. According to official sonography Principles and Instrumentation documentation:

"Persistence uses frame averaging, combining data from several sequential frames to reduce noise, enhance image quality, and stabilize the appearance of stationary structures."

* Demodulation (A) is part of signal processing that extracts the Doppler frequency shift.

* Compression (C) alters the dynamic range of the image but does not reduce noise through frame averaging.

* Time gain compensation (D) adjusts amplification at various depths to equalize brightness but does not perform frame averaging. Therefore, the correct answer is B: Persistence.

NEW QUESTION # 171

The calipers in this image measure which performance characteristic of a system?



- A. Axial resolution
- B. Dynamic range
- C. Depth measurement accuracy
- D. Lateral resolution

Answer: C

Explanation:

The calipers shown in the image are used to measure the depth of structures within the ultrasound image. This performance characteristic, known as depth measurement accuracy, assesses how accurately the ultrasound system can measure the distance from the transducer to a specific point within the body. Accurate depth measurements are crucial for diagnostic purposes, ensuring that anatomical and pathological structures are correctly identified and evaluated.

Reference:

American Registry for Diagnostic Medical Sonography (ARDMS) Sonography Principles and Instrumentation study materials. Textbook of Diagnostic Sonography by Hagen-Ansert, S. L. (latest edition).

NEW QUESTION # 172

What is true regarding the display for color Doppler?

- A. A negative shift always requires using a lower wall filter
- B. A negative shift is always venous flow
- C. A positive shift is always above the baseline
- D. A positive shift is always red

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In color Doppler, frequency shifts can be displayed either above or below the baseline in spectral Doppler. In spectral Doppler, a positive shift is displayed above the baseline by default (unless inverted). In color Doppler, red/blue assignments depend on color map orientation.

Principles and Instrumentation state:

"A positive Doppler shift (flow toward the transducer) is displayed above the baseline in spectral Doppler."

* Red color (B) does not always correspond to positive shift; it depends on color map.

* Negative shift (C) does not always indicate venous flow.

* Wall filter settings (D) affect low-velocity signals, not shift direction.

Therefore, the correct answer is A: A positive shift is always above the baseline.

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NEW QUESTION # 173

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



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

Answer: C

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 # 174

What is the primary determining factor of the fundamental frequency for pulsed wave transducers?

- A. Propagation speed
- B. Crystal diameter
- C. Transducer type
- D. Element thickness

Answer: D

Explanation:

The fundamental frequency of a pulsed wave transducer is primarily determined by the thickness of the piezoelectric element. The frequency is inversely proportional to the thickness of the element - thinner elements produce higher frequencies, while thicker elements produce lower frequencies. This relationship is derived from the formula $f = \frac{v}{2d}$, where f is the frequency, v is the propagation speed of sound in the piezoelectric material, and d is the thickness of the element.

Reference: ARDMS Sonography Principles and Instrumentation, Chapter on Transducer Technology.

NEW QUESTION # 175

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