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ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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 4	• 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	• 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.

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PracticeTorrent has many Sonography Principles and Instrumentation (SPI) practice questions that reflect the pattern of the real Sonography Principles and Instrumentation (SPI) exam. PracticeTorrent allows you to create a Sonography Principles and Instrumentation (SPI) exam dumps according to your preparation. It is easy to create the ARDMS SPI practice questions by following just a few simple steps. Our Sonography Principles and Instrumentation (SPI) exam dumps are customizable based on the time and type of questions. You have the option to change the topic and set the time according to the actual Sonography Principles and Instrumentation (SPI) exam.

ARDMS Sonography Principles and Instrumentation Sample Questions (Q70-Q75):

NEW QUESTION # 70
What information does the ultrasound system calculate to display color flow?

- A. Mean Doppler frequency
- B. Peak Doppler frequency
- C. Minimum velocity of flow
- D. Peak velocity of flow

Answer: A

Explanation:
Color flow Doppler imaging displays the mean Doppler frequency shift, which represents the average velocity of blood flow within a sample volume. The ultrasound system uses autocorrelation to process Doppler signals and compute the mean frequency shift. This provides a color-coded map of blood flow velocities, allowing for visualization of flow direction and speed. The mean Doppler frequency is displayed as different colors, with each color representing a range of velocities.
References:
ARDMS Sonography Principles & Instrumentation Guidelines

Kremkau FW. Sonography Principles and Instruments. 9th ed. Philadelphia, PA: Elsevier; 2016.

NEW QUESTION # 71

Which parameter indicates the potential for cavitation?

- A. Frame rate
- B. Mechanical index
- C. Thermal index
- D. Attenuation coefficient

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Mechanical Index (MI) estimates the likelihood of non-thermal bioeffects such as cavitation (formation of microbubbles).
Principles and Instrumentation state:
"Mechanical Index reflects the risk of cavitation. Higher MI values increase cavitation potential." Attenuation coefficient (A) refers to energy loss.
Thermal index (C) reflects potential heating.
Frame rate (D) relates to temporal resolution.
Therefore, the correct answer is B: Mechanical index.
-

NEW QUESTION # 72

Which change was made after acquiring image A to produce image B?

- A. Decreased wall filter
- B. Increased spectral gain
- C. Increased sweep speed
- D. Decreased pulse repetition frequency

Answer: D

Explanation:
Increased Sweep Speed: This affects the display of the waveform over time but does not impact the appearance of the spectral Doppler signal in the way shown.
Decreased Pulse Repetition Frequency (PRF): Lowering the PRF can lead to aliasing, which is evident as the waveform wrapping around in the spectral display from image A to image B. This makes the velocity appear higher than it actually is.
Decreased Wall Filter: This adjustment primarily affects the elimination of low-frequency Doppler signals but does not typically cause the kind of changes seen in the images.
Increased Spectral Gain: Increasing the gain would result in a brighter spectral display but not the wrapping of the signal as seen.
Reference:
"Understanding Ultrasound Physics" by Sidney K. Edelman
ARDMS Sonography Principles and Instrumentation study materials

NEW QUESTION # 73

Which function should be decreased in order to minimize potential bioeffects?

- A. Frequency
- B. Output power
- C. Depth
- D. Dynamic Range

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:

Output power directly affects the intensity of the ultrasound beam transmitted into the patient. Reducing output power lowers the risk of both thermal and mechanical bioeffects.

According to sonography instrumentation reference:

"Output power should be minimized following the ALARA (As Low As Reasonably Achievable) principle to reduce potential bioeffects while still obtaining diagnostic-quality images." Therefore, the correct answer is B: Output power.

NEW QUESTION # 74

Which technique averages individual frames together to improve the image?

- A. Harmonic imaging
- B. Coded excitation
- C. Persistence
- D. Compression

Answer: C

Explanation:

Persistence is a technique used in ultrasound imaging that averages individual frames together to improve the overall image quality. This process helps to reduce noise and improve the signal-to-noise ratio, leading to clearer and more stable images. By averaging multiple frames, transient artifacts are minimized, and the continuity of structures is better visualized. Persistence is particularly useful in imaging static or slow-moving structures. Reference:

ARDMS Sonography Principles and Instrumentation guidelines

"Ultrasound Physics and Technology: How, Why and When" by M. Evans, C. Archer, and K. Weston

NEW QUESTION # 75

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