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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• 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">• 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 3	<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 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.
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ARDMS Sonography Principles and Instrumentation Sample Questions (Q206-Q211):

NEW QUESTION # 206

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

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

ARDMS Sonography Principles and Instrumentation guidelines

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

NEW QUESTION # 207

What sonographic artifact can result in a reflector that appears shallower than its true location?

- A. Grating lobe
- B. Reverberation
- C. Refraction
- D. Acoustic speed error

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Acoustic speed error occurs when ultrasound travels through tissues with a speed different from the assumed average propagation speed (1540 m/s). If the actual speed is faster, the system assumes the reflector is closer (shallower) than its true location.

According to sonography instrumentation reference:

"When sound travels through tissue at a speed faster than 1540 m/s, the reflector is displayed closer to the transducer than it actually is. This results in a depth placement error known as acoustic speed error." Therefore, the correct answer is B: Acoustic speed error.

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NEW QUESTION # 208

What are two types of cavitation in tissue?

- A. Stable and transient
- B. Thermal and mechanical
- C. Heat and transient
- D. Thermal and stable

Answer: A

Explanation:

* Heat and Transient: Heat and transient are not classifications of cavitation.

* Thermal and Mechanical: These terms refer to different bioeffects of ultrasound but are not types of cavitation.

* Stable and Transient: These are the two types of cavitation observed in tissues during ultrasound. Stable cavitation involves the oscillation of gas bubbles without collapse, while transient cavitation involves the violent collapse of gas bubbles, which can generate high temperatures and shock waves.

* Thermal and Stable: Thermal effects are a different concept related to tissue heating, not a type of cavitation.

References:

"Diagnostic Ultrasound: Principles and Instruments" by Frederick W. Kremkau ARDMS Sonography Principles and Instrumentation study materials

NEW QUESTION # 209

What is the term for the change in direction of a sound wave crossing a tissue boundary at an oblique angle?

- A. Refraction
- B. Absorption
- C. Reflection
- D. Attenuation

Answer: A

Explanation:

Refraction is the change in direction of a sound wave as it crosses a boundary between two different tissues at an oblique angle, where there is a difference in propagation speeds between the tissues. This bending of the sound wave path occurs due to the change in speed, causing the wave to change direction according to Snell's law. Refraction can result in artifacts such as edge shadowing and displacement of structures in an ultrasound image.

References:

ARDMS Sonography Principles & Instrumentation Guidelines

Hedrick WR, Hykes DL, Starchman DE. Ultrasound Physics and Instrumentation. 4th ed. Philadelphia, PA:

Elsevier Saunders; 2005.

NEW QUESTION # 210

What results from increasing the packet length when using color Doppler imaging?

- A. Decreased frame rate
- B. Decreased penetration
- C. Increased aliasing
- D. Increased color noise

Answer: A

Explanation:

Increasing the packet length in color Doppler imaging means increasing the number of pulses used to interrogate each scan line. This improves the accuracy of velocity measurements and sensitivity to low flow velocities but has the drawback of decreasing the frame rate. A longer packet length requires more time to acquire the necessary data, which reduces the number of frames that can be processed and displayed per second. Consequently, while color Doppler imaging becomes more precise, the temporal resolution (frame rate) decreases. Reference:

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"Color Doppler, Power Doppler, and Spectral Doppler" by Michael J. Riccabona

NEW QUESTION # 211

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