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ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	Optimize Sonographic Images: The topic focuses on optimization of axial resolution concepts, optimization of lateral resolution concepts, optimization of elevational resolution concepts, optimization of temporal resolution concepts, and magnification techniques.
Topic 2	Apply Doppler Concepts: It discusses Doppler wall filter concepts, Doppler sample gate concepts, y color priority over gray scale concepts, and concepts related to color Doppler map. Furthermore, it discusses concepts to eliminate aliasing, continuous wave Doppler concepts, and color Doppler scale concepts.
Topic 3	- Manage Ultrasound Transducers: It delves into 2D array transducer concepts, 3D 4D transducer concepts, and nonimaging transducer concepts.

Topic 4	• Provide Clinical Safety & Quality Assurance: This topic covers universal infection control protocols, QA check on ultrasound machine, transducer integrity, ultrasound machine integrity, and statistical parameter concepts.
Topic 5	• Perform Ultrasound Examinations: This topic discusses patient care, sonographic ergonomic techniques, echogenicity, reverberation, and potential bioeffects. It also discusses beam steering concepts, panoramic imaging, 3D • 4D concepts, and contrast imaging concepts.

ARDMS Sonography Principles and Instrumentation Sample Questions (Q195-Q200):

NEW QUESTION # 195

What is the primary determining factor of a pulsed wave transducer's fundamental frequency?

- A. Aperture size
- B. Element thickness
- C. Tissue propagation speed
- D. Transducer type

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In pulsed-wave transducers, the thickness of the piezoelectric element primarily determines the fundamental operating frequency. Thinner elements produce higher frequencies, while thicker elements produce lower frequencies.

According to sonography instrumentation reference:

"The operating frequency of a pulsed-wave transducer is primarily determined by the thickness of the piezoelectric crystal. Thinner crystals vibrate at higher frequencies." Therefore, the correct answer is A: Element thickness.

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NEW QUESTION # 196

What are two types of cavitation in tissue?

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

Answer: C

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.

Reference:

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

NEW QUESTION # 197

Which factor causes posterior acoustic enhancement?

- A. Weakly attenuating structure
- B. High-frequency transducer
- C. Strongly attenuating structure
- D. Low-frequency transducer

Answer: A

Explanation:

High-Frequency Transducer: These provide better resolution but do not directly cause posterior enhancement.

Low-Frequency Transducer: These provide better penetration but are not the cause of posterior enhancement.

Strongly Attenuating Structure: This would cause acoustic shadowing rather than enhancement.

Weakly Attenuating Structure: Structures that attenuate the ultrasound beam less than the surrounding tissues allow more sound waves to pass through, resulting in increased brightness or "enhancement" behind the structure.

Reference:

"Ultrasound Physics and Instrumentation" by Frank Miele

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NEW QUESTION # 198

Which will affect the gray-scale of a 2-D image?

- A. Dynamic range
- B. Depth of field
- C. Pulse repetition frequency (PRF)
- D. Doppler gain

Answer: A

Explanation:

Dynamic range in ultrasound imaging affects the number of gray shades displayed in a 2-D image. Adjusting the dynamic range changes how echo signals are mapped to grayscale. A higher dynamic range means more shades of gray are displayed, providing a more detailed and softer image, which is useful for differentiating subtle tissue textures. Conversely, a lower dynamic range increases contrast by displaying fewer shades of gray, making the image appear more black and white. This adjustment is crucial for optimizing image quality based on the specific diagnostic needs.

Reference:

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

NEW QUESTION # 199

Which color Doppler setting can be optimized to eliminate low-frequency Doppler shifts without having any effect on higher Doppler frequency shifts?

- A. Wall filter
- B. Gain
- C. Scale
- D. Persistence

Answer: A

Explanation:

The wall filter is used in color Doppler and spectral Doppler imaging to eliminate low-frequency Doppler shifts caused by tissue motion or vessel wall movement. Adjusting the wall filter removes these low-frequency signals without affecting higher-frequency Doppler shifts that represent blood flow. Other settings like gain, scale, and persistence do not selectively filter out low-frequency shifts in the same manner.

References:

American Registry for Diagnostic Medical Sonography (ARDMS) Sonography Principles and Instrumentation guidelines.

NEW QUESTION # 200

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