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ARDMS SPI Real Exam Questions and Answers 2024

What is dynamic aperture? A.aperture that varies with transmit frequency B.aperture that decreases as a function of time C.aperture that increases with increasing focal length D.aperture that changes as a function of frame rate.
C - Answer

A - Answer to which acoustic variable is penetration depth inversely related?
A.frequency
B.wavelength
C.period
D.propagation speed

B - Answer which imaging mode requires a broadband transducer?
A.continuous wave doppler
B.Pulsed wave doppler
C.color flow imaging
D.harmonic imaging

B - Answer what is the doppler shift frequency?
A.received ultrasound frequency multiplied by the transmitted ultrasound frequency
B.difference between the transmitted ultrasound frequency and the received ultrasound frequency
C.sum of the transmitted and received ultrasound frequencies
D.ratio of the transmitted ultrasound frequency to the received ultrasound frequency

A - Answer what is the potential effect of increasing the pulse repetition frequency(PRF)?
A.Depth ambiguity
B.Decreased frame rate
C.Poor spatial resolution
D.Decreased penetration

B - Answer what is an advantage of using pulsed wave doppler compared to continuous wave doppler?
A.higher echo sensitivity
B.ability to select sample depth
C.decreased display of aliasing
D.improved temporal resolution

D - Answer what affects the beam width in the near field?
A.Pulse repetition frequency
B.Pulse duration
C.Frame rate
D.Transducer aperture

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ARDMS Sonography Principles and Instrumentation Sample Questions (Q160-Q165):

NEW QUESTION # 160

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

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

Answer: B

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.

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

NEW QUESTION # 161

What is an advantage of pulsed-wave Doppler over continuous-wave Doppler?

- A. High signal-to-noise ratio
- B. Increased sensitivity to slow flow
- C. Unlimited maximum detectable velocity
- D. **Range resolution**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The primary advantage of pulsed-wave Doppler is its ability to provide range resolution. This means the operator can select a specific depth (sample volume) from which Doppler signals are acquired, allowing precise localization of blood flow velocities. According to sonography instrumentation reference:

"Pulsed-wave Doppler allows for range resolution, enabling velocity measurements at a specific depth along the ultrasound beam path." Continuous-wave Doppler does not have range resolution, as it measures velocities along the entire beam path.

Therefore, the correct answer is C: Range resolution.

NEW QUESTION # 162

Which factor causes posterior acoustic enhancement?

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

Answer: C

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.

References:

"Ultrasound Physics and Instrumentation" by Frank Miele

ARDMS Sonography Principles and Instrumentation study materials

NEW QUESTION # 163

Which target group is used to evaluate transverse distance measurement accuracy in this tissue-mimicking phantom image?

□

- A. A
- B. B
- C. C
- D. D

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In a tissue-mimicking phantom, the group of targets aligned side-by-side (horizontally) is used to evaluate transverse (lateral) distance measurement accuracy. In the image, target group C (in red) represents the lateral spacing targets.

Principles and Instrumentation state:

"Transverse distance accuracy is evaluated using laterally spaced targets in the phantom to verify correct lateral measurement calibration." Group A (top) is typically for near field assessment.

Group B may be for axial resolution or cyst evaluation.

Group D (deep) may assess depth calibration or sensitivity.

Therefore, the correct answer is C: C.

NEW QUESTION # 164

What is the most effective way to reduce aliasing on color Doppler?

- A. Increase wall filter
- B. Increase pulse repetition frequency (PRF)
- C. Decrease wall filter
- D. Decrease pulse repetition frequency (PRF)

Answer: B

Explanation:

Aliasing in color Doppler occurs when the velocity of blood flow exceeds the Nyquist limit, which is half the PRF. To reduce aliasing, the PRF must be increased. This raises the Nyquist limit, allowing higher velocities to be measured without wrapping around the baseline. Increasing PRF reduces the occurrence of aliasing artifacts by expanding the range of detectable velocities before aliasing occurs.

References:

ARDMS Sonography Principles & Instrumentation Guidelines

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

NEW QUESTION # 165

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