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- ☐ Bowel
- ☐ Rib
- ☐ Distended bladder

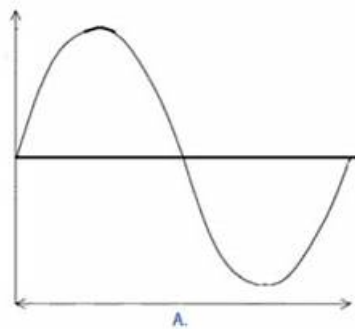
Medium	Attenuation
Water	Very Low
Blood, Urine, Biologic Fluids	Low
Fat	Low
Soft Tissue	Intermediate
Muscle	High
Bone/Lung	Higher
Air	Very High

What is the average speed of sound in soft tissue? *

- ☐ 145,000 cm/s
- ☐ 1,540 m/s
- ☐ 154,000 km/s
- ☐ 1.45 mm/us

In the following diagram, what does the letter (A) represent? *

- ☐ Wavelength
- ☐ Velocity
- ☐ Amplitude
- ☐ Frequency



Which of the following is NOT identifiable in the image below: *

- ☐ Direction of flow
- ☐ Presence of flow
- ☐ Peak velocity
- ☐ Flow velocity

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ARDMS SPI Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> • 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 2	<ul style="list-style-type: none"> • 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.
Topic 3	<ul style="list-style-type: none"> • 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 4	<ul style="list-style-type: none"> • Manage Ultrasound Transducers: It delves into 2D array transducer concepts, 3D • 4D transducer concepts, and nonimaging transducer concepts.
Topic 5	<ul style="list-style-type: none"> • 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.

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ARDMS Sonography Principles and Instrumentation Sample Questions (Q54-Q59):

NEW QUESTION # 54

What relates bandwidth to operating frequency?

- A. Focal zone
- **B. Quality factor**
- C. Nyquist limit
- D. Autocorrelation

Answer: B

Explanation:

The quality factor (Q-factor) is a dimensionless parameter that describes the efficiency of the transducer in terms of bandwidth and operating frequency. It is defined as the ratio of the operating frequency to the bandwidth. A higher Q-factor indicates a narrower bandwidth relative to the operating frequency, resulting in more precise frequency characteristics but potentially reduced axial resolution. Conversely, a lower Q-factor indicates a broader bandwidth, which improves axial resolution but may result in less precise frequency characteristics.

References:

ARDMS Sonography Principles & Instrumentation Guidelines

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

NEW QUESTION # 55

Which type of structure is best visualized with low persistence?

- A. Static

- B. Echogenic
- C. Anechoic
- D. Dynamic

Answer: D

Explanation:

Low persistence is best used for visualizing dynamic structures. Persistence is a setting that controls the averaging of successive frames to reduce noise and improve image quality. While high persistence can be beneficial for imaging static structures by providing a smoother image, it can blur or smear moving structures, making it difficult to visualize motion accurately. Low persistence settings allow for better temporal resolution and are therefore ideal for observing dynamic or moving structures such as the heart or blood flow.

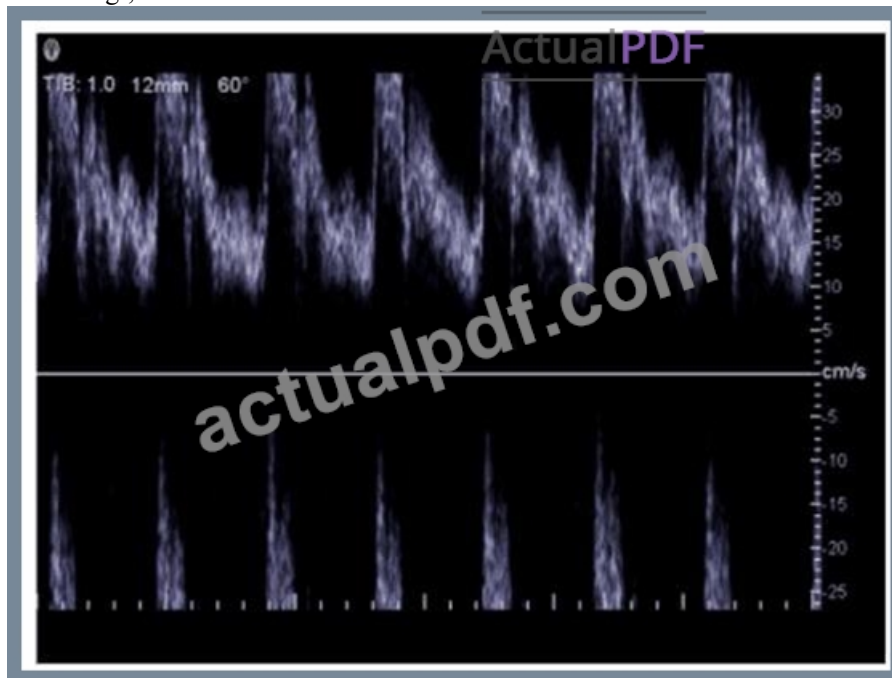
Reference:

ARDMS Sonography Principles and Instrumentation (SPI) Exam Study Guide

"Diagnostic Ultrasound: Principles and Instruments" by Frederick W. Kremkau

NEW QUESTION # 56

In this image, which artifact is demonstrated?



- A. Range ambiguity
- B. Mirroring
- C. Spectral broadening
- D. Aliasing

Answer: B

Explanation:

The artifact demonstrated in the image is mirroring. This occurs when the ultrasound beam encounters a strong reflector, such as a diaphragm or pleura, and is reflected back and forth between the object and the transducer. This results in a duplicate image appearing on the other side of the strong reflector, creating a mirror image artifact. It is crucial for sonographers to recognize and differentiate this artifact from actual anatomical structures to avoid misinterpretation.

American Registry for Diagnostic Medical Sonography (ARDMS) Sonography Principles and Instrumentation study materials.
Diagnostic Ultrasound: Principles and Instruments by Kremkau, F. W. (latest edition).

NEW QUESTION # 57

What parameter change reduces spectral Doppler aliasing?

- A. Increase Doppler angle

- B. Decrease pulse repetition frequency
- C. Utilize m-mode
- D. Change color scale

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Spectral Doppler aliasing occurs when the Doppler frequency shift exceeds the Nyquist limit. The Doppler shift is proportional to the cosine of the Doppler angle. Increasing the Doppler angle (moving closer to 90 degrees) reduces the cosine value, thus reducing the Doppler shift frequency and helping to avoid aliasing.

According to sonography instrumentation reference:

"Increasing the Doppler angle reduces the Doppler shift frequency, thus decreasing the likelihood of aliasing in spectral Doppler."

Therefore, the correct answer is A: Increase Doppler angle.

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NEW QUESTION # 58

Which resolution can be evaluated in the area indicated by the red oval in this image of a tissue-equivalent phantom?



- A. Axial
- B. Lateral
- C. Elevational
- D. Contrast

Answer: A

Explanation:

The tissue-equivalent phantom image with the red oval indicates an area where axial resolution can be evaluated. Axial resolution refers to the ability to distinguish between two structures that are close together along the axis of the ultrasound beam. It is determined by the spatial pulse length (SPL) of the ultrasound wave. In phantoms, this is typically tested by observing the ability to separate closely spaced targets along the beam's path.

Reference:

ARDMS Sonography Principles & Instrumentation Guidelines

Hedrick WR, Hykes DL, Starchman DE. Ultrasound Physics and Instrumentation. 4th ed. Philadelphia, PA: Elsevier Saunders; 2005.

NEW QUESTION # 59

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