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ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	• Manage Ultrasound Transducers: It delves into 2D array transducer concepts, 3D • 4D transducer concepts, and nonimaging transducer concepts.
Topic 2	• 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	• 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 4	• 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 5	• 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.

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ARDMS Sonography Principles and Instrumentation Sample Questions (Q158-Q163):

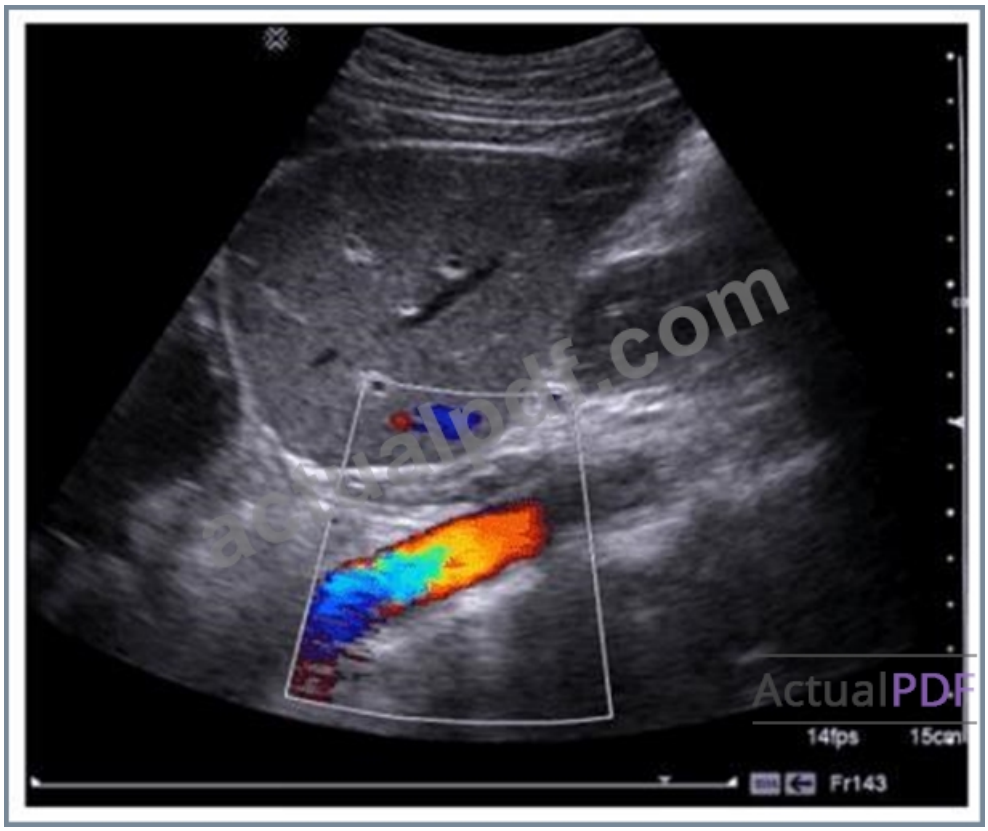
NEW QUESTION # 158
Which resolution is improved by focusing?

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

Answer: C

Explanation:
Focusing improves lateral resolution in ultrasound imaging. Lateral resolution refers to the system's ability to distinguish between two points that are side by side (perpendicular to the sound beam's path). By focusing the ultrasound beam, the width of the beam is narrowed at the focal point, enhancing the system's ability to resolve structures that are close together in the lateral plane. This results in clearer, more detailed images of the anatomical structures.
Reference:
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 # 159
Which transducer was most likely used to create this image?



- A. Linear array
- B. Endocavity
- C. Curvilinear
- D. Phased array

Answer: C

Explanation:
The image shown is typical of an abdominal ultrasound, which commonly utilizes a curvilinear transducer.
Curvilinear transducers have a wider field of view at depth, making them ideal for imaging large structures within the abdomen. These transducers emit a curved beam, allowing for better penetration and a broader field of view, which is necessary for comprehensive abdominal examinations. The curvature of the image, the wide field of view, and the depth of penetration all suggest the use of a curvilinear transducer.
American Registry for Diagnostic Medical Sonography (ARDMS). Sonography Principles and Instrumentation (SPI) Examination Review Guide.

NEW QUESTION # 160
Which effect does spatial compounding have on ultrasound images?

- A. Increases propagation speed
- B. Increases shadowing
- C. Decreases shadowing
- D. Decreases propagation speed

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Spatial compounding acquires multiple frames from different angles and combines them into a single image.
This technique reduces the appearance of artifacts such as shadowing and speckle noise, resulting in a smoother, more uniform image.
According to sonography instrumentation reference:
"Spatial compounding reduces artifacts like posterior shadowing and speckle by averaging data from multiple insonation angles."
Therefore, the correct answer is D: Decreases shadowing.

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NEW QUESTION # 161
Which adjustment can maintain the same frame rate when the depth is increased?

- A. Increase number of focal zones
- B. Decrease persistence
- C. Increase frequency
- D. Decrease image width

Answer: D

Explanation:
When the depth of imaging is increased, the time it takes for the ultrasound pulses to travel to and from the deeper structures also increases, which can reduce the frame rate. To maintain the same frame rate, one effective adjustment is to decrease the image width. Narrowing the image width reduces the number of scan lines required to create each frame, allowing the system to maintain a higher frame rate despite the increased depth.
Reference:
ARDMS Sonography Principles and Instrumentation guidelines
Kremkau, F. W. (2015). Diagnostic Ultrasound: Principles and Instruments.

NEW QUESTION # 162
What is the result of increasing the wall filter setting during Doppler sampling?

- A. Creation of spectral broadening
- B. Reduced display of low-frequency shifts
- C. Decreased bandwidth
- D. Diminished aliasing

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The wall filter in Doppler ultrasound is designed to eliminate low-frequency signals, typically associated with motion artifacts such as vessel wall or tissue motion. These low-frequency signals are not part of the desired blood flow signal and can interfere with accurate Doppler display.
When the wall filter setting is increased, it removes these low-frequency signals from the Doppler spectrum.
However, increasing the wall filter too much can also eliminate true low-velocity flow information, leading to a loss of clinically relevant data.
This principle is described in official sonography Principles and Instrumentation references:
"Increasing the wall filter will reduce the display of low-frequency Doppler shifts, which are typically associated with slow-moving structures. These low-frequency signals can represent either slow blood flow or tissue motion artifacts." Therefore, the correct answer isD: Reduced display of low-frequency shifts.

NEW QUESTION # 163
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