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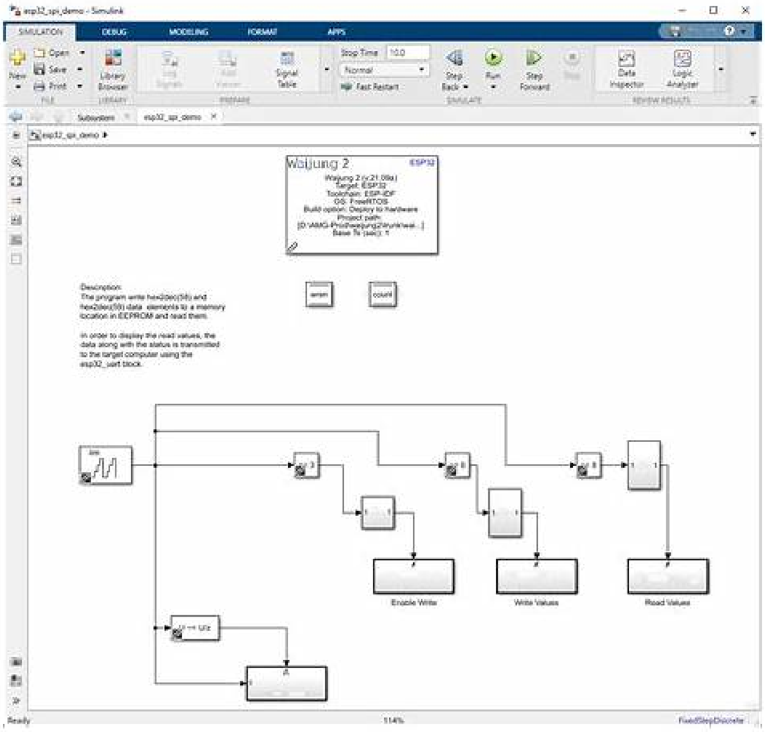

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ARDMS Sonography Principles and Instrumentation Sample Questions (Q75-Q80):

NEW QUESTION # 75

Which unfocused transducer will have the greatest divergence?

- A. 6 mm aperture, 6 MHz
- B. 4 mm aperture, 6 MHz
- C. 4 mm aperture, 4 MHz
- D. 6 mm aperture, 4 MHz

Answer: C

Explanation:

Transducer beam divergence is influenced by the aperture size and frequency. A smaller aperture and lower frequency result in greater beam divergence. Among the given options, the transducer with a 4 mm aperture and 4 MHz frequency will have the greatest divergence. This is because the smaller aperture size contributes to a wider beam spread, and the lower frequency also increases the divergence compared to higher frequencies.

ARDMS Sonography Principles and Instrumentation guidelines

Kremkau, F. W. (2015). Diagnostic Ultrasound: Principles and Instruments. Elsevier.

NEW QUESTION # 76

What is the term for an ultrasound system's ability to display low-level echoes?

- A. Lateral resolution
- B. Sensitivity
- C. Axial resolution
- D. Slice thickness

Answer: B

Explanation:

Sensitivity is the term for an ultrasound system's ability to display low-level echoes. It refers to the system's capacity to detect and accurately display weak echoes returning from tissues. High sensitivity allows the sonographer to visualize structures that produce faint echoes, such as small or low-contrast lesions. This parameter is critical for ensuring that subtle pathological changes are not missed during imaging. Reference:

ARDMS Sonography Principles and Instrumentation guidelines

"Sonography: Principles and Instruments" by Joan P. Baker and Marveen Craig

NEW QUESTION # 77

Which action is the first step for the removal of visible contaminants from the transducer?

- A. Pasteurize
- B. Clean
- C. Disinfect
- D. Sterilize

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The proper care and reprocessing of ultrasound transducers follow a strict hierarchy of steps. The first step is always physical cleaning, which involves removing visible debris, gel, and contaminants from the transducer surface. This must be done prior to any disinfection or sterilization process because organic material can inhibit the effectiveness of these subsequent steps.

According to sonography Principles and Instrumentation documentation:

"Cleaning is the first and essential step in reprocessing ultrasound probes. It removes gel, blood, and other organic material. Disinfection or sterilization should never be performed before cleaning, as residual debris reduces their effectiveness." Therefore, the correct answer is C: Clean.

-

NEW QUESTION # 78

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

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

Answer: B

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.
-

NEW QUESTION # 79
What is the primary factor that affects axial resolution?

- A. Speed of sound
- B. Focal zone
- C. Aperture
- D. Spatial pulse length

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Axial resolution refers to the ability to distinguish two structures that are located along the path of the ultrasound beam. It is directly related to the spatial pulse length (SPL), which is the product of the number of cycles per pulse and the wavelength. A shorter SPL leads to better axial resolution.
According to sonography instrumentation reference:
"Axial resolution improves as spatial pulse length decreases because shorter pulses can better differentiate structures lying close together along the beam axis." Therefore, the correct answer is B: Spatial pulse length.
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NEW QUESTION # 80
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