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## Spi Review Practice Test | 100 Questions and Answers 100% Correct | 2024-2025

During performance of an obstetrical ultrasound exam, you adjust the system parameters to improve the image. Which of the following parameters would increase acoustic exposure?

- a) Increase gain
- b) Increase TGC
- c) Increase frequency
- d) Increase transmit power
- e) Increase frame averaging - ANSWER  d) Increase transmit power

When practicing universal precautions, you should do all of the following EXCEPT:

- a) Wear gloves when there is a potential for contact with patient bodily fluids.
- b) Change gloves when moving from one patient to another.
- c) Wash hands immediately after gloves are removed.
- d) Wear face masks or eye protection whenever there is a possibility of blood splashing into your face.
- e) Wash gloves between exams for re-use from one patient to another. - ANSWER  e) Wash gloves between exams for re-use from one patient to another.

Which intensity descriptor has the lowest numerical value for the characterization of a pulsed-wave ultrasound field?

- a) SATA
- b) SPTA
- c) SATP

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## ARDMS Sonography Principles and Instrumentation Sample Questions (Q175-Q180):

### NEW QUESTION # 175

Which target group is used to evaluate transverse distance measurement accuracy in this tissue-mimicking phantom image?  
A ultrasound image of a baby Description automatically generated with medium confidence

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

**Answer: A**

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 # 176

What is associated with a weakly attenuating structure?

- A. Distal enhancement
- B. Strong internal echoes
- C. Ghosting artifacts
- D. Reverberations

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A weakly attenuating structure allows ultrasound waves to pass through with minimal loss of energy. Because of this, structures located posterior to the weakly attenuating region appear brighter than expected - this is known as distal (posterior) enhancement.

This artifact is most commonly observed when scanning fluid-filled structures such as cysts, the bladder, or the gallbladder.

Official sonography instrumentation reference states:

"When sound waves encounter a structure that attenuates sound minimally (low attenuation), more sound energy reaches deeper tissues. This results in increased echo amplitude from structures located distal to the weak attenuating structure, creating the appearance of distal enhancement." Therefore, the correct answer is D: Distal enhancement.

### NEW QUESTION # 177

Which outcome is an advantage of more pulses in an ensemble length?

- A. Increased accuracy of velocity measurement
- B. Increased line density
- C. Improved temporal resolution
- D. Reduced ghosting artifact

**Answer: A**

Explanation:

Ensemble length, also known as packet size or Doppler packet, refers to the number of pulses used to calculate each Doppler measurement. Increasing the number of pulses in an ensemble length improves the accuracy of velocity measurements by providing more data points for the Doppler shift analysis. This leads to better estimation of mean velocities and reduces the variability of the measurements, although it may slightly decrease temporal resolution due to the longer time required to acquire the data.

ARDMS Sonography Principles and Instrumentation guidelines

Edelman, S. K. (2017). Understanding Ultrasound Physics.

#### NEW QUESTION # 178

Which target group in this image of a tissue-mimicking phantom is used for gray-scale evaluation?

□

- A. Option B
- B. Option A
- C. **Option C**
- D. Option D

**Answer: C**

Explanation:

\* Gray-scale evaluation in a tissue-mimicking phantom involves assessing the uniformity and accuracy of the gray-scale representation of the tissues.

\* Option C typically contains structures designed to test the machine's ability to accurately depict varying levels of echogenicity, which is essential for proper gray-scale evaluation.

\* This area will have a range of echo intensities that help in determining the contrast resolution and the ability of the system to distinguish between different tissue types based on their gray-scale values.

References:

\* ARDMS Sonography Principles and Instrumentation guidelines on tissue-mimicking phantoms and image quality evaluation.

#### NEW QUESTION # 179

Which pulsed-wave Doppler adjustment would be appropriate to correct the aliasing seen in this image?

□

- A. **Increase the Doppler pulse repetition frequency.**
- B. Decrease the Doppler pulse repetition frequency.
- C. Increase the spectral Doppler gain.
- D. Decrease the spectral Doppler gain.

**Answer: A**

Explanation:

Aliasing in pulsed-wave Doppler occurs when the sampled Doppler frequency exceeds the Nyquist limit, which is half of the pulse repetition frequency (PRF). This results in an incorrect representation of the blood flow velocities, causing the waveform to wrap around and appear on the opposite side of the baseline. To correct aliasing, the PRF should be increased, which raises the Nyquist limit and allows for accurate measurement of higher velocities without aliasing. Increasing the PRF effectively reduces the likelihood of aliasing artifacts in the Doppler signal.

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

#### NEW QUESTION # 180

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