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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 SPI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• <b>Optimize Sonographic Images:</b> This section of the exam measures skills of Diagnostic Medical Sonographers and assesses their ability to enhance image quality using advanced optimization techniques. It includes understanding axial, lateral, elevational, and temporal resolution, as well as manipulating gain, depth, magnification, and dynamic range. Examinees are expected to apply harmonic imaging, spatial compounding, and gray-scale techniques to produce clear, accurate diagnostic images.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• <b>Manage Ultrasound Transducers:</b> This section of the exam measures skills of Ultrasound Technicians and focuses on the management and proper use of different types of transducers. It evaluates knowledge of transducer components, frequency selection, and application of various 2D, 3D, 4D, and nonimaging transducer concepts. Candidates must show they can choose the appropriate transducer for specific examinations and make necessary frequency adjustments to ensure image quality.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• <b>Provide Clinical Safety and Quality Assurance:</b> This section of the exam measures skills of Clinical Ultrasound Supervisors and focuses on maintaining safety and quality standards in ultrasound practice. It includes infection control protocols, transducer and machine integrity checks, and quality assurance testing using tissue-mimicking phantoms. The section also requires familiarity with statistical parameters like sensitivity and specificity to evaluate diagnostic performance and ensure consistent, reliable imaging outcomes.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>• <b>Apply Doppler Concepts:</b> This section of the exam measures skills of Vascular Sonographers and evaluates understanding and application of Doppler ultrasound principles. It includes knowledge of Doppler angle, flow dynamics, and color and spectral Doppler imaging. The section also covers eliminating aliasing, interpreting waveforms, applying continuous and pulsed wave Doppler, and optimizing Doppler gain and scale to accurately measure blood flow and velocity within vessels.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>• <b>Perform Ultrasound Examinations:</b> This section of the exam measures skills of Sonographers and covers how to conduct ultrasound procedures while ensuring patient safety and diagnostic accuracy. It includes understanding of imaging protocols, ergonomics, patient care, and the interaction between sound and tissue. Candidates are expected to demonstrate abilities to manage patient encounters, apply 3D and 4D and contrast imaging concepts, identify and correct artifacts, and follow confidentiality and privacy standards throughout the scanning process.</li></ul>

## ARDMS Sonography Principles and Instrumentation Sample Questions (Q59-Q64):

### NEW QUESTION # 59

What produces increased attenuation within soft tissue?

- A. Lower intensity of the ultrasound beam
- B. Higher intensity of the ultrasound beam
- C. Lower frequency of the ultrasound beam
- **D. Higher frequency of the ultrasound beam**

**Answer: D**

Explanation:

Attenuation refers to the reduction in the intensity of the ultrasound beam as it travels through tissue. Higher frequency ultrasound beams experience more attenuation because they are absorbed and scattered more than lower frequency beams. This is due to the fact that higher frequency waves have shorter wavelengths and interact more with the small particles in tissues, causing greater energy loss.

Reference: ARDMS Sonography Principles and Instrumentation, Chapter on Ultrasound Physics and Instrumentation.

### NEW QUESTION # 60

What is the benefit of using a wall filter?

- A. Removes low-frequency signals
- B. Increases signal-to-noise ratio
- C. Increases velocity range
- D. Reduces aliasing

**Answer: A**

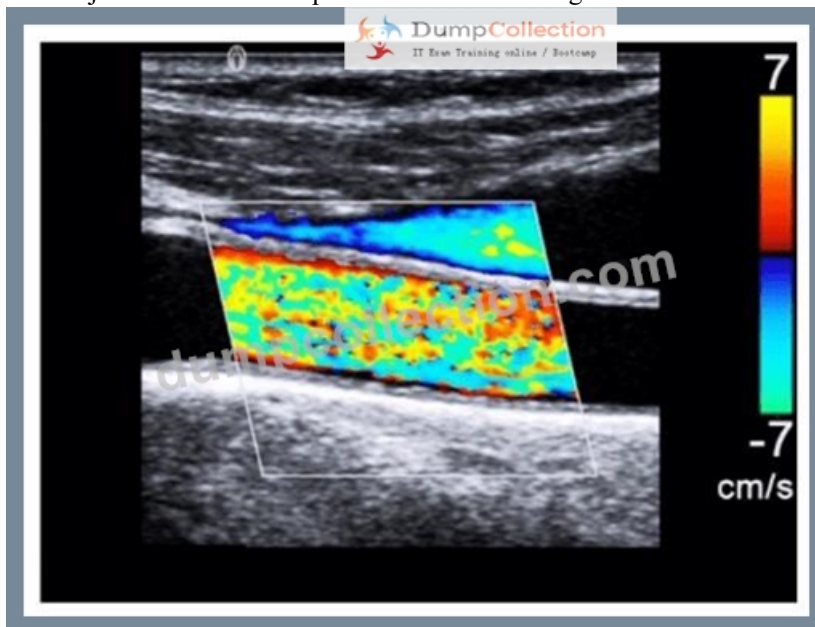
Explanation:

A wall filter in Doppler ultrasound is designed to remove low-frequency signals that are often caused by tissue motion, vessel wall movement, or other forms of motion artifact. These low-frequency signals can clutter the Doppler spectrum, making it difficult to accurately interpret blood flow velocities. By filtering out these unwanted low-frequency signals, the wall filter helps to enhance the clarity of the Doppler signal, allowing for more accurate measurements of blood flow velocities.

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

### NEW QUESTION # 61

What adjustment is needed to optimize the color in the image below?



- A. Decrease gain
- B. Increase wall filter
- C. Decrease persistence
- D. Increase pulse repetition frequency

**Answer: D**

Explanation:

\* Increasing the pulse repetition frequency (PRF) helps to optimize the color Doppler imaging by reducing aliasing.

\* Aliasing occurs when the PRF is too low to accurately sample the rapid blood flow velocities, leading to incorrect color representation.

\* By increasing the PRF, the system can more accurately measure higher velocities without distortion, improving the overall quality of the color Doppler image.

References:

\* ARDMS Sonography Principles and Instrumentation guidelines on Doppler imaging and techniques to reduce aliasing.

### NEW QUESTION # 62

How is the wavelength affected when switching from a 10 MHz transducer to a 5 MHz transducer?

- A. Halves

- B. Quadruples
- **C. Doubles**
- D. Quarters

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Wavelength is inversely proportional to frequency according to the equation:

Wavelength ( $\lambda$ ) = Propagation speed (c) / Frequency (f)

If frequency decreases from 10 MHz to 5 MHz, the wavelength increases by a factor of 2 (doubles).

Principles and Instrumentation state:

"As frequency decreases, wavelength increases. Halving the frequency results in doubling the wavelength." Therefore, the correct answer is D: Doubles.

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### NEW QUESTION # 63

Which factor affects lateral resolution in ultrasound?

- A. Depth of penetration
- **B. Beam width**
- C. Wavelength
- D. Propagation speed

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Lateral resolution is the system's ability to distinguish two structures side-by-side. It is directly determined by the beam width - the narrower the beam, the better the lateral resolution.

Principles and Instrumentation:

"Lateral resolution depends on beam width at a given depth. Narrower beams provide better lateral resolution." Depth of penetration influences maximum imaging depth.

Propagation speed is largely constant in soft tissue.

Wavelength affects axial resolution.

Therefore, the correct answer is A: Beam width.

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### NEW QUESTION # 64

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