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What does HIPAA stand for? ☒ The Health Insurance Portability and Accountability Act

What does mechanical index indicate on an ultrasound system?

- A: The maximum temperature increase in tissue
- B: The minimum temperature increase in tissue
- C: Acoustic power in milliwatts
- D: The likelihood of cavitation during an ultrasound exam
- E: Minutes of exposure time before tissue heating is too great ☒
- D: The likelihood of cavitation during an ultrasound exam.

In medicine what do the initials "PHI" indicate?

- A: Private health indicator
- B: Personal heart index
- C: Personal health information
- D: Private health institute

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## ARDMS Sonography Principles and Instrumentation Sample Questions (Q50-Q55):

### NEW QUESTION # 50

Which characteristic of ultrasound transmission is directly proportional to an increase in frequency?

- A. Pulse duration
- B. Wavelength
- C. Attenuation
- D. Penetration

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

As frequency increases, attenuation (energy loss due to absorption, scattering, and reflection) also increases. This limits penetration but improves resolution for superficial structures.

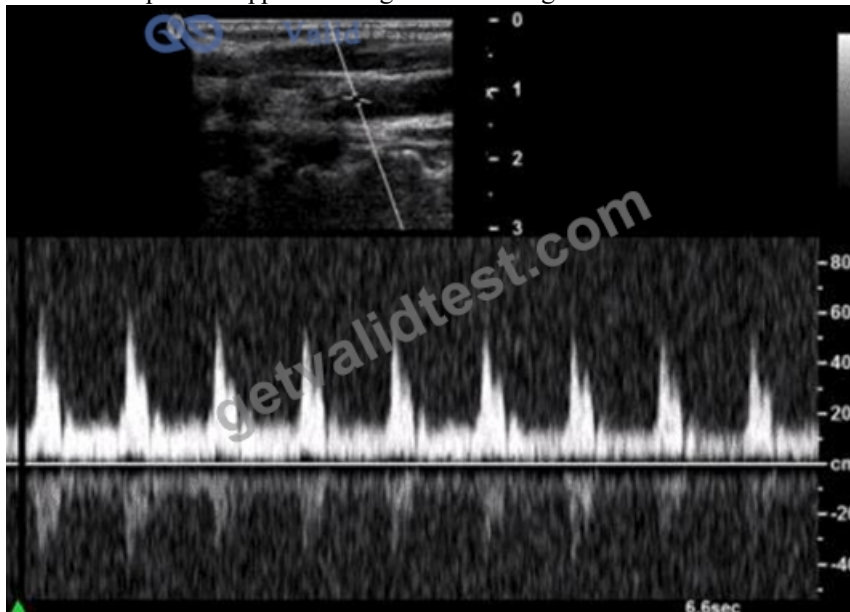
According to sonography instrumentation reference:

"Attenuation increases directly with frequency, limiting penetration but enhancing resolution in superficial imaging." Therefore, the correct answer is C: Attenuation.

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### NEW QUESTION # 51

How can the spectral Doppler mirroring seen in this image be eliminated?



- A. Increase pulse repetition frequency (PRF).
- B. Decrease Doppler gain.
- C. Increase dynamic range.
- D. Decrease wall filter.

**Answer: B**

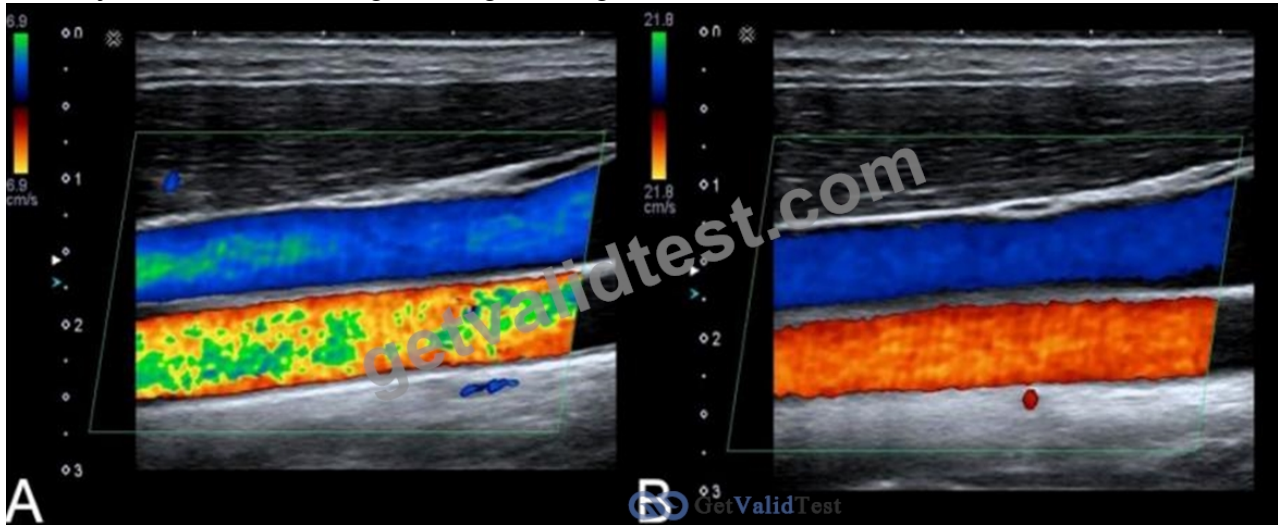
Explanation:

Spectral Doppler mirroring, also known as crosstalk, occurs when the Doppler signal appears on both sides of the baseline. This can be caused by excessively high Doppler gain, which amplifies the signal and creates artificial mirror images. Decreasing the Doppler gain reduces the signal amplitude, thereby minimizing the mirroring artifact.

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### NEW QUESTION # 52

Which adjustment resulted in the change from image A to image B?



- A. Decreased color gain
- B. Increased scale
- C. Increased transmit frequency
- D. Decreased acoustic power

**Answer: A**

Explanation:

Increased Transmit Frequency: This would generally improve the resolution of the image but does not directly correlate to the changes seen in the provided image link.

Increased Scale: Adjusting the scale changes the velocity range displayed but does not directly affect the speckle or noise reduction.

Decreased Color Gain: Reducing the color gain can decrease the amount of color noise, making the blood flow regions more defined, which aligns with the change observed from image A to image B.

Decreased Acoustic Power: This reduces the overall intensity of the ultrasound beam, affecting penetration depth and overall brightness but is less likely to result in the specific improvements seen.

Reference:

"Understanding Ultrasound Physics" by Sidney K. Edelman

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### NEW QUESTION # 53

Which component of a contrast agent causes a marked mismatch in impedance between the agent and blood?

- A. Gas
- B. Solid
- C. Serous liquid
- D. Viscous liquid

**Answer: A**

Explanation:

Contrast agents used in ultrasound imaging typically consist of microbubbles filled with gas. The significant mismatch in acoustic impedance between the gas in the microbubbles and the surrounding blood creates strong reflectors of the ultrasound waves, enhancing the echogenicity of blood and improving the visibility of blood flow and tissue perfusion. The high contrast provided by the gas-filled microbubbles makes them particularly effective as ultrasound contrast agents.

References:

ARDMS Sonography Principles & Instrumentation Guidelines

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

#### NEW QUESTION # 54

Which action may reduce the number of lines in a frame without a loss of temporal resolution?

- A. Decreasing the display depth
- **B. Narrowing the field of view**
- C. Decreasing the transducer frequency
- D. Reducing the frame rate

**Answer: B**

Explanation:

Narrowing the field of view reduces the number of scan lines that need to be processed per frame. This allows the ultrasound system to maintain or even increase the frame rate without compromising temporal resolution. Temporal resolution, which refers to the system's ability to depict motion accurately, is directly related to the frame rate. Reducing the field of view ensures fewer lines are needed to create each image, thus preserving the frame rate and temporal resolution.

Reference:

ARDMS Sonography Principles and Instrumentation guidelines

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

#### NEW QUESTION # 55

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