

# 100% Pass Quiz 2026 Trustable ARDMS Practical SPI Information

## SPI Practice (ARDMS A & B), spi ardms test A and B, ARDMS PRACTICE SPI (B)

3cm - ANS-what is the space to the interface if the spherical experience time for a valid wave is 39 microseconds?  
A - ANS-what's the maximum commonplace purpose of localized vertical nonuniformity in a real-time B-mode photo?  
A) Improper TGC  
b) Defective transducer factors  
c) Faulty preamplifier  
d) Malfunctioning experiment converter  
A sound wave propagates quickest through which substance? - ANS-A. Bone  
B. Muscle  
C. Fat  
D. Gas  
a sound wave propagates fastest thru which substance? - ANS-Bone  
A.Regulate the sweep speed  
B.Adjust the baseline  
C.Growing dynamic range  
D.Growing the transmitted frequency - ANS-B  
in step with ALARA (as little as moderately potential) hints, which parameter ought to be minimized?  
A.Transmit power  
B.Frequency  
C.Time gain repayment  
D.Normal advantage - ANS-A  
Acoustic enhancement takes place distal to what?  
A. Calcifications  
B. Near subject interface  
C. Noticeably reflecting structure  
D. Weakly attenuating shape - ANS-D  
an boom in which parameter will improve the accuracy of speed measurements with autocorrelation?  
A.Colour field of view  
B.Packet size  
C.Wall filtering  
D.Transmitted frequency - ANS-B  
an boom wherein parameter will enhance the accuracy of speed measurements with autocorrelation? - ANS-colour discipline of view

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## ARDMS Sonography Principles and Instrumentation Sample Questions (Q52-Q57):

### NEW QUESTION # 52

What does compression affect in the ultrasound image?

- A. The elevational resolution
- B. The number of lines displayed
- C. The shades of gray displayed
- D. The temporal resolution

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Compression reduces the dynamic range of the returning echoes, which alters how many shades of gray are displayed. It compresses the range of signal amplitudes to fit into the grayscale display range.

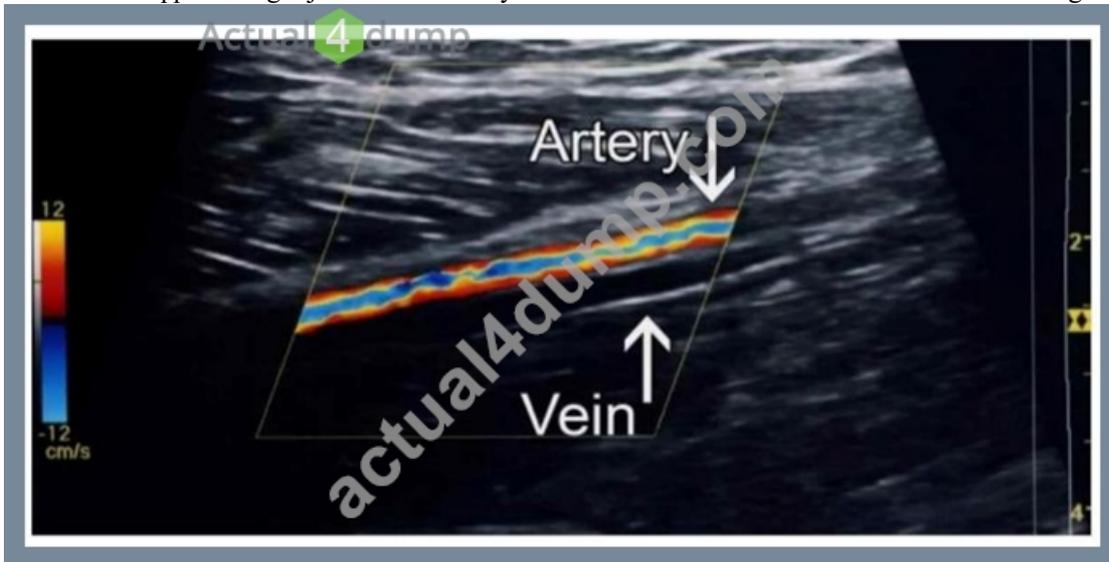
According to sonography instrumentation reference:

"Compression alters the dynamic range, adjusting how many shades of gray are displayed to optimize image contrast." Therefore, the correct answer is B: The shades of gray displayed.

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### NEW QUESTION # 53

Which color Doppler setting adjustment would likely demonstrate color flow in the normal vein seen in this image?



- A. Decreasing scale
- B. Decreasing persistence
- C. Increasing scale
- D. Increasing persistence

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Veins generally exhibit low-velocity flow. The color scale (or velocity range) must be low enough to detect these slow flows.

Decreasing the scale lowers the Nyquist limit, allowing the machine to display lower velocities that may otherwise be undetectable.

Principles and Instrumentation state:

"Reducing the scale increases sensitivity to low-velocity flows such as venous flow, while high scales may suppress these signals."

Therefore, the correct answer is A: Decreasing scale.

#### NEW QUESTION # 54

Which adjustment would eliminate aliasing in the Doppler waveform in this image?



- A. Decrease Doppler gain.
- B. Increase sample size.
- C. Decrease wall filter.
- **D. Increase velocity scale.**

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Aliasing occurs when Doppler frequency shifts exceed the Nyquist limit (which equals half the pulse repetition frequency). Increasing the velocity scale (which increases PRF) raises the Nyquist limit, reducing or eliminating aliasing.

Principles and Instrumentation state:

"Aliasing in pulsed-wave Doppler can be corrected by increasing the pulse repetition frequency (velocity scale), allowing higher velocities to be displayed without wraparound." Decreasing gain affects amplitude, not aliasing.

Wall filter adjustments remove low-velocity signals, not aliasing.

Increasing sample size affects spatial resolution and may reduce frame rate but does not address aliasing.

Therefore, the correct answer is C: Increase velocity scale.

-

#### NEW QUESTION # 55

Which technique averages individual frames together to improve the image?

- A. Compression
- **B. Persistence**

- C. Harmonic imaging
- D. Coded excitation

**Answer: B**

Explanation:

Persistence is a technique used in ultrasound imaging that averages individual frames together to improve the overall image quality. This process helps to reduce noise and improve the signal-to-noise ratio, leading to clearer and more stable images. By averaging multiple frames, transient artifacts are minimized, and the continuity of structures is better visualized. Persistence is particularly useful in imaging static or slow-moving structures. Reference:

ARDMS Sonography Principles and Instrumentation guidelines

"Ultrasound Physics and Technology: How, Why and When" by M. Evans, C. Archer, and K. Weston

**NEW QUESTION # 56**

What does this image demonstrate?



- A. Presence of flow
- B. Direction of flow
- C. Color inversion
- **D. Color aliasing**

**Answer: D**

Explanation:

Color aliasing in Doppler ultrasound occurs when the velocity of blood flow exceeds the Nyquist limit, causing the color display to wrap around and display high velocities incorrectly as the opposite direction. This phenomenon is characterized by a mix of colors that indicate flow in both directions at the same location. In the provided image, there is a clear presence of color aliasing, as evidenced by the abrupt color change across the vessel, which is not consistent with normal flow patterns.

Reference:

American Registry for Diagnostic Medical Sonography (ARDMS) Sonography Principles and Instrumentation guidelines.

**NEW QUESTION # 57**

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