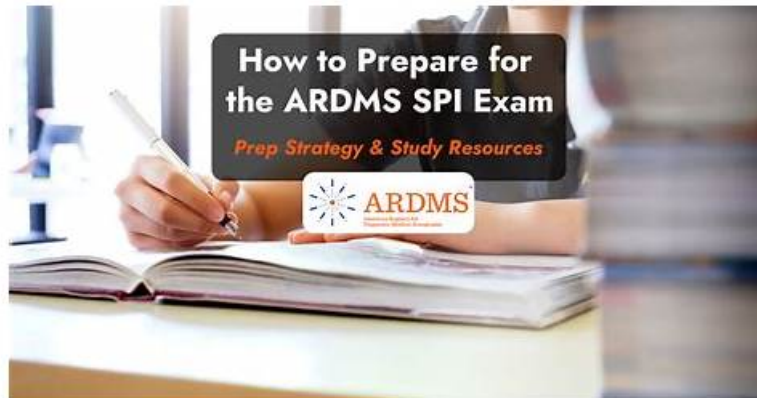


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## First-Grade Examcollection SPI Free Dumps & Valid ARDMS Certification Training - Practical ARDMS Sonography Principles and Instrumentation

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### ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Manage Ultrasound Transducers: It delves into 2D array transducer concepts, 3D</li><li>• 4D transducer concepts, and nonimaging transducer concepts.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• Optimize Sonographic Images: The topic focuses on optimization of axial resolution concepts, optimization of lateral resolution concepts, optimization of elevational resolution concepts, optimization of temporal resolution concepts, and magnification techniques.</li></ul>

Topic 3	<ul style="list-style-type: none"> <li>• Provide Clinical Safety &amp; Quality Assurance: This topic covers universal infection control protocols, QA check on ultrasound machine, transducer integrity, ultrasound machine integrity, and statistical parameter concepts.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• Perform Ultrasound Examinations: This topic discusses patient care, sonographic ergonomic techniques, echogenicity, reverberation, and potential bioeffects. It also discusses beam steering concepts, panoramic imaging, 3D</li> <li>• 4D concepts, and contrast imaging concepts.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• Apply Doppler Concepts: It discusses Doppler wall filter concepts, Doppler sample gate concepts, y color priority over gray scale concepts, and concepts related to color Doppler map. Furthermore, it discusses concepts to eliminate aliasing, continuous wave Doppler concepts, and color Doppler scale concepts.</li> </ul>

## ARDMS Sonography Principles and Instrumentation Sample Questions (Q125-Q130):

### NEW QUESTION # 125

What parameter change reduces spectral Doppler aliasing?

- A. Change color scale
- B. Decrease pulse repetition frequency
- C. Increase Doppler angle
- D. Utilize m-mode

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Spectral Doppler aliasing occurs when the Doppler frequency shift exceeds the Nyquist limit. The Doppler shift is proportional to the cosine of the Doppler angle. Increasing the Doppler angle (moving closer to 90 degrees) reduces the cosine value, thus reducing the Doppler shift frequency and helping to avoid aliasing.

According to sonography instrumentation reference:

"Increasing the Doppler angle reduces the Doppler shift frequency, thus decreasing the likelihood of aliasing in spectral Doppler."

Therefore, the correct answer is A: Increase Doppler angle.

-

### NEW QUESTION # 126

What relates bandwidth to operating frequency?

- A. Quality factor
- B. Autocorrelation
- C. Focal zone
- D. Nyquist limit

**Answer: A**

Explanation:

The quality factor (Q-factor) is a dimensionless parameter that describes the efficiency of the transducer in terms of bandwidth and operating frequency. It is defined as the ratio of the operating frequency to the bandwidth. A higher Q-factor indicates a narrower bandwidth relative to the operating frequency, resulting in more precise frequency characteristics but potentially reduced axial resolution. Conversely, a lower Q-factor indicates a broader bandwidth, which improves axial resolution but may result in less precise frequency characteristics.

Reference:

ARDMS Sonography Principles & Instrumentation Guidelines

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

### NEW QUESTION # 127

Which artifact causes a reflector to be improperly positioned on the display?

- A. Speckle
- B. Acoustic shadowing
- **C. Range ambiguity**
- D. Enhancement

**Answer: C**

Explanation:

\* Acoustic Shadowing: This artifact occurs when a structure absorbs or reflects most of the ultrasound waves, causing a shadow behind the structure. It does not cause improper positioning of a reflector on the display.

\* Speckle: This is a form of noise in ultrasound imaging that appears as granular texture. It can affect image quality but does not lead to improper positioning of reflectors.

\* Enhancement: This artifact occurs when the area behind a weakly attenuating structure appears brighter.

It affects the brightness of the image but does not affect the position of reflectors.

\* Range Ambiguity: This occurs when an echo is received after the next pulse has been sent out, causing the reflector to be placed at an incorrect depth on the display. This is because the system assumes the echo came from the most recent pulse.

References:

"Ultrasound Physics and Instrumentation" by Frank Miele

ARDMS Sonography Principles and Instrumentation study materials

### NEW QUESTION # 128

Which artifact displays reflectors more shallow than their actual position?

- A. Mirror image
- B. Section thickness
- C. Ring-down
- **D. Range ambiguity**

**Answer: D**

Explanation:

Range ambiguity artifact occurs when echoes from one pulse are received after the next pulse has been emitted, leading to the incorrect placement of echoes at shallower depths than their true location. This artifact typically happens when the PRF is set too high, causing the ultrasound system to interpret delayed echoes as coming from the current pulse rather than the previous one. This results in reflectors appearing closer to the transducer than they actually are.

References:

ARDMS Sonography Principles & Instrumentation Guidelines

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

### NEW QUESTION # 129

Which artifact may be caused by incorrect color Dopplergain setting?

- **A. Bleed/Blossoming**
- B. Aliasing
- C. Clutter/Haze
- D. Twinkle

**Answer: A**

Explanation:

Incorrect color Doppler gain settings can cause the artifact known as bleed or blossoming. When the color Doppler gain is set too high, it can cause the color signal to "bleed" outside the actual boundaries of the blood vessel, leading to an overestimation of the area of flow. This artifact makes it appear as though the blood flow extends beyond the true vessel walls, which can obscure the accurate interpretation of the Doppler image.

Reference:

ARDMS Sonography Principles and Instrumentation (SPI) Exam Study Guide

## NEW QUESTION # 130

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