

# SPI Reliable Exam Bootcamp - SPI Mock Exams

Learner		Highest Score		Latest Score		Aggregate Statistics	
First Name	Last Name	Score	Date	Score	Date	Average Score	Total Attempts
Li	Learner	88%	7/19/2023, 1:55 PM PDT	88%	7/19/2023, 1:55 PM PDT	88%	1
Luks	Learner	82%	7/17/2023, 8:54 AM PDT	82%	7/17/2023, 8:54 AM PDT	80%	2
LJly	Learner	78%	7/17/2023, 6:49 PM PDT	78%	7/17/2023, 6:49 PM PDT	75%	2
Lmarc	Learner	73%	6/29/2023, 4:36 AM PDT	72%	6/29/2023, 4:36 AM PDT	55%	3
Lmyl	Learner	68%	7/19/2023, 6:21 PM PDT	68%	7/19/2023, 6:21 PM PDT	68%	1
Logan	Learner	55%	7/19/2023, 9:32 PM PDT	55%	7/19/2023, 9:32 PM PDT	55%	1
Lelara	Learner	52%	7/19/2023, 1:21 PM PDT	52%	7/19/2023, 1:21 PM PDT	52%	1
Luke	Learner	48%	7/19/2023, 10:22 AM PDT	48%	7/19/2023, 10:22 AM PDT	48%	1
Lisa	Learner	45%	7/19/2023, 9:49 PM PDT	45%	7/19/2023, 9:49 PM PDT	45%	1
Liam	Learner	33%	7/4/2023, 1:01 AM PDT	28%	6/8/2023, 1:10 AM PDT	44%	3

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### ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>Provide Clinical Safety and Quality Assurance: 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 2	<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 3	<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 4	<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>
Topic 5	<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>

## ARDMS Sonography Principles and Instrumentation Sample Questions (Q104-Q109):

### NEW QUESTION # 104

What improves the temporal resolution of color flow imaging?

- A. Decreasing pulse repetition frequency
- **B. Decreasing width of the color field of view**
- C. Increasing number of color lines per frame
- D. Increasing ensemble length (packet size)

**Answer: B**

Explanation:

Temporal resolution refers to the ability of the ultrasound system to distinguish events occurring closely in time. In color flow imaging, temporal resolution is affected by the frame rate, which can be increased by decreasing the width of the color field of view. This is because a narrower color field requires fewer scan lines to be processed, allowing for more frames to be captured per second.

Reference:

ARDMS Sonography Principles and Instrumentation guidelines  
Edelman, S. K. (2017). Understanding Ultrasound Physics.

### NEW QUESTION # 105

Which artifact is seen as a result of an increase in echo amplitude in the tissue located distal to an anechoic structure?

- A. Mirror image
- **B. Enhancement**
- C. Reverberation
- D. Comet tail

**Answer: B**

Explanation:

Enhancement artifact occurs when an anechoic (or low-attenuation) structure, such as a cyst or fluid-filled structure, allows the ultrasound beam to pass through it with minimal attenuation. As a result, the tissues located distal to this anechoic structure appear brighter (increased echo amplitude) on the ultrasound image because the sound waves are less attenuated by the anechoic structure, leading to higher intensity echoes returning from the distal tissue. This increased brightness beyond the anechoic area is known as enhancement.

ARDMS Sonography Principles and Instrumentation guidelines

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

### NEW QUESTION # 106

Which factor improves axial resolution?

- A. Shorter wavelength
- B. Wider beam
- C. Greater depth of field
- D. Increased aperture size

**Answer: A**

Explanation:

Axial resolution refers to the ability of an ultrasound system to distinguish between two structures that are close to each other along the path of the ultrasound beam. It is primarily determined by the spatial pulse length, which is the product of the wavelength and the number of cycles in a pulse. Shorter wavelengths result in shorter spatial pulse lengths, thereby improving axial resolution. This is because shorter wavelengths (which correspond to higher frequencies) allow for better differentiation between closely spaced structures along the beam's axis.

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

### NEW QUESTION # 107

What is the most effective way to reduce aliasing on color Doppler?

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

**Answer: D**

Explanation:

Aliasing in color Doppler occurs when the velocity of blood flow exceeds the Nyquist limit, which is half the PRF. To reduce aliasing, the PRF must be increased. This raises the Nyquist limit, allowing higher velocities to be measured without wrapping around the baseline. Increasing PRF reduces the occurrence of aliasing artifacts by expanding the range of detectable velocities before aliasing occurs.

References:

ARDMS Sonography Principles & Instrumentation Guidelines

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

### NEW QUESTION # 108

Which artifact may be caused by incorrect color Doppler gain setting?

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

**Answer: D**

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  
"Diagnostic Ultrasound: Principles and Instruments" by Frederick W. Kremkau

## NEW QUESTION # 109

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