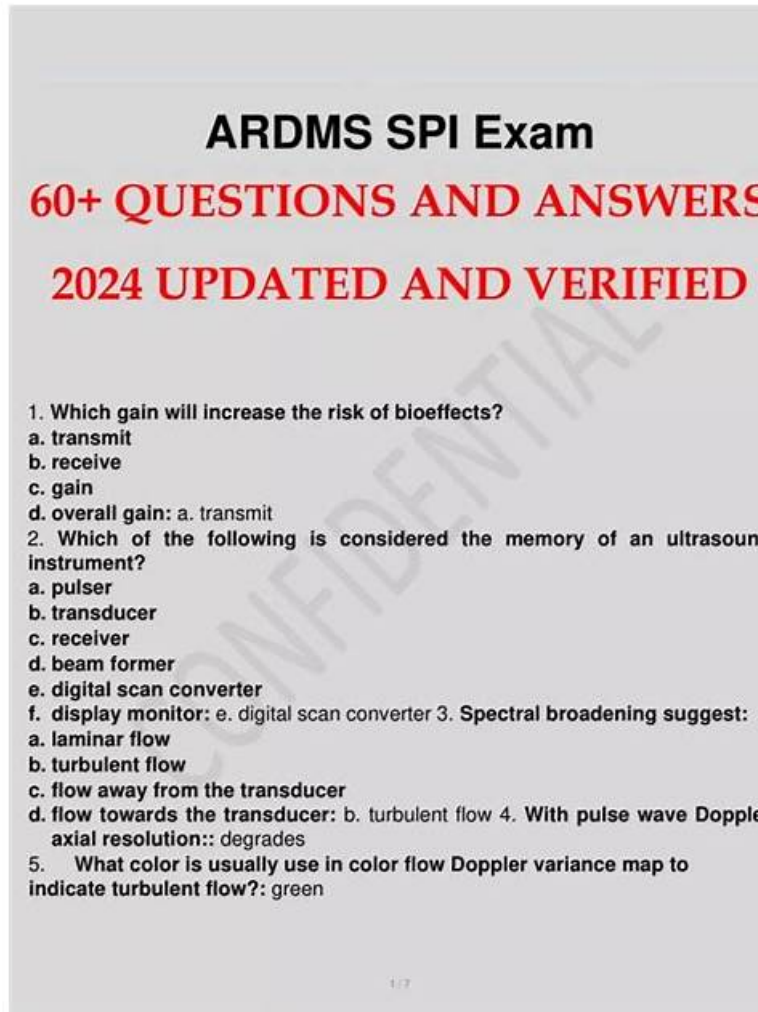


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## ARDMS SPI Exam Syllabus Topics:

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>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</li> <li>• 4D and contrast imaging concepts, identify and correct artifacts, and follow confidentiality and privacy standards throughout the scanning process.</li> </ul>
Topic 4	<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 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>

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### ARDMS Sonography Principles and Instrumentation Sample Questions (Q198-Q203):

#### NEW QUESTION # 198

Which describes the reflected frequency when a reflector is moving toward the sound source?

- A. Attenuated
- B. Decreased
- C. Unchanged
- **D. Increased**

**Answer: D**

Explanation:

When a reflector (such as red blood cells) is moving toward the sound source, the frequency of the reflected sound waves increases. This phenomenon is known as the Doppler effect. The frequency shift occurs because the motion of the reflector compresses the sound waves, leading to a higher frequency than the emitted frequency. This increased frequency is what the Doppler ultrasound system detects and uses to calculate the velocity of the moving reflector.

Reference:

ARDMS Sonography Principles and Instrumentation guidelines

Hoskins, P. R., Thrush, A., Martin, K., & Whittingham, T. A. (2010). Diagnostic Ultrasound: Physics and Equipment.

#### NEW QUESTION # 199

Which target group is used to evaluate transverse distance measurement accuracy in this tissue-mimicking phantom image?  
A ultrasound image of a baby Description automatically generated with medium confidence

- A. B
- B. D
- C. A
- **D. C**

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In a tissue-mimicking phantom, the group of targets aligned side-by-side (horizontally) is used to evaluate transverse (lateral) distance measurement accuracy. In the image, target group C (in red) represents the lateral spacing targets.

Principles and Instrumentation state:

"Transverse distance accuracy is evaluated using laterally spaced targets in the phantom to verify correct lateral measurement calibration."

\* Group A (top) is typically for near field assessment.

\* Group B may be for axial resolution or cyst evaluation.

\* Group D (deep) may assess depth calibration or sensitivity.

Therefore, the correct answer is C: C.

#### **NEW QUESTION # 200**

Which action is the first step for the removal of visible contaminants from the transducer?

- A. Pasteurize
- **B. Clean**
- C. Sterilize
- D. Disinfect

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The proper care and reprocessing of ultrasound transducers follow a strict hierarchy of steps. The first step is always physical cleaning, which involves removing visible debris, gel, and contaminants from the transducer surface. This must be done prior to any disinfection or sterilization process because organic material can inhibit the effectiveness of these subsequent steps.

According to sonography Principles and Instrumentation documentation:

"Cleaning is the first and essential step in reprocessing ultrasound probes. It removes gel, blood, and other organic material.

Disinfection or sterilization should never be performed before cleaning, as residual debris reduces their effectiveness." Therefore, the correct answer is C: Clean.

-

#### **NEW QUESTION # 201**

Which adjustment follows the ALARA (As Low As Reasonably Achievable) principle of patient safety?

- **A. Decrease output power**
- B. Decrease depth
- C. Increase number of focal zones
- D. Increase sector width

**Answer: A**

Explanation:

The ALARA principle stands for "As Low As Reasonably Achievable" and aims to minimize patient exposure to ultrasound energy.

Decreasing the output power reduces the intensity of the ultrasound waves, thereby reducing the potential for tissue heating and mechanical effects, which aligns with the ALARA principle of minimizing exposure while still obtaining necessary diagnostic information.

Reference:

### NEW QUESTION # 202

"Sensitivity represents the proportion of actual positive cases correctly identified by the test." Therefore, the correct answer is B: 32/35.

At what Doppler angle to flow is the maximum Doppler shift frequency acquired?

- A. 30 degrees
- B. 60 degrees
- C. 90 degrees
- **D. 0 degrees**

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Doppler equation shows that the frequency shift is proportional to the cosine of the Doppler angle. The maximum value of cosine ( $\cos 0^\circ = 1$ ) occurs at 0 degrees - meaning the beam is parallel to flow. At this angle, the full velocity component is measured. According to sonography instrumentation reference:

"The maximum Doppler shift is obtained when the ultrasound beam is parallel (0 degrees) to blood flow." Therefore, the correct answer is D: 0 degrees.

### NEW QUESTION # 203

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