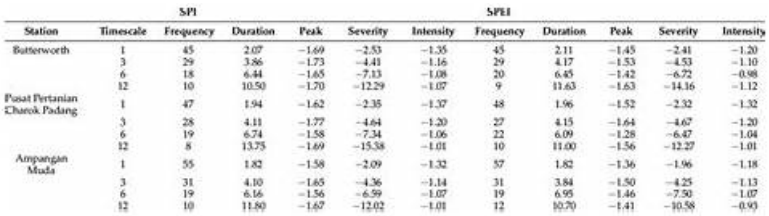
SPI Test Duration & New SPI Test Review



		SPI					SPEI				
Station	Timescale	Frequency	Duration	Peak	Severity	Intensity	Frequency	Duration	Peak	Severity	Intensity
Butterworth	1	45	2.07	−1.69	−2.53	−1.35	45	2.11	−1.45	−2.41	−1.20
	3	29	3.86	−1.73	−4.41	−1.16	29	4.17	−1.53	−4.53	−1.10
	6	18	6.44	−1.65	−7.13	−1.08	20	6.45	−1.42	−6.72	−0.98
	12	10	10.50	−1.70	−12.29	−1.07	9	11.63	−1.63	−14.16	−1.12
Pusat Pertanian Cherok Padang	1	47	1.94	−1.62	−2.35	−1.37	48	1.96	−1.52	−2.32	−1.32
	3	28	4.11	−1.77	−4.64	−1.20	27	4.15	−1.64	−4.67	−1.20
	6	19	6.74	−1.58	−7.34	−1.06	22	6.09	−1.28	−6.47	−1.04
	12	8	13.75	−1.69	−15.38	−1.01	10	11.00	−1.56	−12.27	−1.01
Ampangan Muda	1	55	1.82	−1.58	−2.09	−1.32	57	1.82	−1.36	−1.96	−1.18
	3	31	4.10	−1.65	−4.36	−1.14	31	3.84	−1.50	−4.25	−1.13
	6	19	6.16	−1.56	−6.59	−1.07	19	6.95	−1.46	−7.50	−1.07
	12	10	11.80	−1.67	−12.02	−1.01	12	10.70	−1.41	−10.58	−0.93

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You will receive a registration code and download instructions via email. We will be happy to assist you with any questions regarding our products. Our Sonography Principles and Instrumentation (SPI) practice exam software helps to prepare applicants to practice time management, problem-solving, and all other tasks on the standardized exam and lets them check their scores. The Sonography Principles and Instrumentation (SPI) practice test results help students to evaluate their performance and determine their readiness without difficulty.

ARDMS SPI Exam Syllabus Topics:

Topic	Details
Topic 1	• Manage Ultrasound Transducers: It delves into 2D array transducer concepts, 3D • 4D transducer concepts, and nonimaging transducer concepts.
Topic 2	• Provide Clinical Safety & Quality Assurance: This topic covers universal infection control protocols, QA check on ultrasound machine, transducer integrity, ultrasound machine integrity, and statistical parameter concepts.
Topic 3	• 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.
Topic 4	• 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.
Topic 5	• 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 • 4D concepts, and contrast imaging concepts.

>> SPI Test Duration <<

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ARDMS Sonography Principles and Instrumentation Sample Questions (Q196-Q201):

NEW QUESTION # 196

Which control should a sonographer use to change contrast resolution?

- A. Gain
- B. Dynamic range
- C. Reject
- D. Output power

Answer: B

Explanation:
* Reject: This control eliminates low-level noise and weak signals, affecting image quality but not primarily used for contrast resolution.
* Output Power: This adjusts the intensity of the transmitted ultrasound waves but does not directly change contrast resolution.
* Gain: This control amplifies all signals equally, affecting brightness but not specifically the contrast resolution.
* Dynamic Range: Adjusting the dynamic range changes the range of grayscale that the ultrasound system displays, which directly affects the contrast resolution by altering how many shades of gray are visible between the black and white extremes.
References:
"Understanding Ultrasound Physics" by Sidney K. Edelman
ARDMS Sonography Principles and Instrumentation study materials

NEW QUESTION # 197
What would increase with an increase in acoustic power?

- A. Impedance
- B. Thermal Index
- C. Frequency
- D. Wavelength

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The thermal index (TI) indicates the potential for tissue heating due to ultrasound energy absorption.
Increasing acoustic power increases the amount of energy transmitted into the body, which raises the thermal index.
According to sonography instrumentation reference:
"An increase in acoustic output power results in a corresponding increase in the thermal index, reflecting higher potential for tissue heating." Therefore, the correct answer is C: Thermal Index.
-

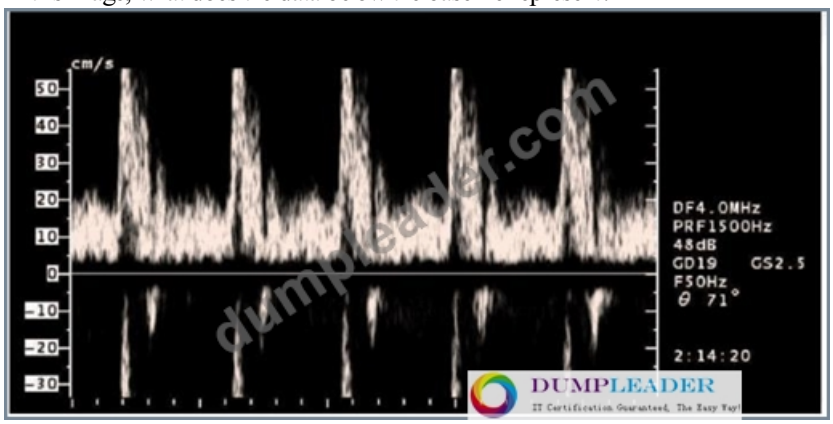
NEW QUESTION # 198
Which outcome is an advantage of more pulses in an ensemble length?

- A. Reduced ghosting artifact
- B. Increased line density
- C. Increased accuracy of velocity measurement
- D. Improved temporal resolution

Answer: C

Explanation:
Ensemble length, also known as packet size or Doppler packet, refers to the number of pulses used to calculate each Doppler measurement. Increasing the number of pulses in an ensemble length improves the accuracy of velocity measurements by providing more data points for the Doppler shift analysis. This leads to better estimation of mean velocities and reduces the variability of the measurements, although it may slightly decrease temporal resolution due to the longer time required to acquire the data.
Reference:
ARDMS Sonography Principles and Instrumentation guidelines
Edelman, S. K. (2017). Understanding Ultrasound Physics.

NEW QUESTION # 199
In this image, what does the data below the baseline represent?



- A. Wall filter setting too high
- B. Mirror image artifact
- C. Aliasing and retrograde blood flow
- D. Blood flow directed towards the transducer

Answer: C

Explanation:
In the provided image, data below the baseline represents blood flow moving away from the transducer, which can indicate retrograde flow. When using spectral Doppler, the baseline separates flows towards and away from the transducer. Aliasing occurs when the velocity of blood flow exceeds the Nyquist limit, causing the display to wrap around and appear on the opposite side of the baseline. This phenomenon is common in high-velocity flow situations and results in part of the flow being displayed below the baseline. Retrograde flow further supports this, as it shows blood moving in the opposite direction to the expected flow.
References:
ARDMS Sonography Principles & Instrumentation Guidelines
Kremkau FW. Sonography Principles and Instruments. 9th ed. Philadelphia, PA: Elsevier; 2016.

NEW QUESTION # 200
Which factor improves axial resolution?

- A. Narrower beamwidth
- B. Shorter spatial pulse length
- C. Decreased compression
- D. Lower frequency transducer

Answer: B

Explanation:
Axial resolution refers to the ability to distinguish two structures that are close to each other along the direction of the sound beam. It is determined by the spatial pulse length (SPL), which is the product of the number of cycles in a pulse and the wavelength. Shorter SPL means shorter pulse duration, which leads to better axial resolution. This is because shorter pulses allow for better separation of echoes from closely spaced structures.
Reference:
ARDMS Sonography Principles and Instrumentation guidelines
Kremkau, F. W. (2015). Diagnostic Ultrasound: Principles and Instruments.

NEW QUESTION # 201
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