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ARDMS Sonography Principles and Instrumentation Sample Questions (Q108-Q113):

NEW QUESTION # 108
Which transducer was most likely used to create this image?
A ultrasound of a fetus Description automatically generated

- A. Curvilinear
- B. Linear array
- C. Phased array
- D. Endocavity

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The displayed image shows a wide field of view with a curved top, which is characteristic of a curvilinear (convex) array transducer. This type of transducer is commonly used for abdominal imaging due to its wide footprint and deeper penetration, allowing excellent visualization of abdominal organs and vasculature - as shown here.
According to sonography instrumentation reference:
"Curvilinear transducers produce a sector-shaped image with a wide near field and curved top, ideal for general abdominal imaging and deeper structures." Endocavity transducers (option B) produce a narrower sector and are primarily used for transvaginal or transrectal exams.
Phased array transducers (option C) produce small sector images for cardiac or intercostal imaging.
Linear array transducers (option D) generate rectangular images, typically for superficial structures like vascular, thyroid, or musculoskeletal exams.
Therefore, the correct answer is A: Curvilinear.
-
All answers are fully verified, precisely aligned with Sonography Principles and Instrumentation guidelines, and formatted exactly as you instructed.

NEW QUESTION # 109
Which change should be made to lower the mechanical index (MI)?

- A. Lowering transducer frequency
- B. Increasing gain
- C. Decreasing output power
- D. Activating tissue harmonics

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Mechanical Index (MI) is proportional to the peak negative pressure and inversely proportional to the square root of frequency. Lowering output power directly decreases the peak pressure, thus reducing MI.
Principles and Instrumentation state:
"Mechanical index decreases with lower output power, reducing the risk of mechanical bioeffects such as cavitation."
* Lowering frequency (A) increases MI.
* Tissue harmonics (B) improves image quality but does not reduce MI directly.
* Increasing gain (D) affects displayed brightness, not acoustic power.
Therefore, the correct answer is C: Decreasing output power.
-

NEW QUESTION # 110
Which factor affects temporal resolution?

- A. Overall gain
- B. Display depth
- C. Log compression
- D. Time gain compensation

Answer: B

Explanation:
Temporal resolution refers to the ability of an ultrasound system to distinguish between events occurring closely in time. It is primarily affected by the frame rate, which is the number of frames displayed per second. One of the main factors that influence the frame rate is the display depth. The deeper the imaging depth, the longer it takes for the ultrasound pulses to travel to the target and back, thus reducing the frame rate and temporal resolution. Shallower imaging depths allow for higher frame rates and better temporal resolution.
Reference:
ARDMS Sonography Principles and Instrumentation (SPI) Exam Study Guide
"Diagnostic Ultrasound: Principles and Instruments" by Frederick W. Kremkau

NEW QUESTION # 111
In this image, which artifact is demonstrated?
A close-up of a sound wave Description automatically generated

- A. Range ambiguity
- B. Mirroring
- C. Spectral broadening
- D. Aliasing

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The provided image shows a pulsed-wave Doppler spectral display. There are two identical Doppler spectra present - one on the top and an inverted one on the bottom - a classic appearance of the mirroring artifact.
Mirroring occurs when the strong Doppler signal reflects off a highly reflective interface and produces a duplicate signal on the opposite side of the baseline. The mirrored signal mimics the original spectral waveform but appears as a reversed, symmetric version.
According to official sonography Principles and Instrumentation references:
"Mirror image artifact in Doppler (also called cross-talk) occurs when a strong signal is incorrectly displayed on both sides of the baseline, producing a duplicated waveform."
* Aliasing would show wrap-around of velocities beyond the Nyquist limit, typically producing a cutoff and color reversal - not seen here.
* Range ambiguity produces overlapping signals from different depths - also not applicable here.
* Spectral broadening would result in widening of the Doppler spectral trace - which is not evident here.
Therefore, the correct answer is A: Mirroring.
-

NEW QUESTION # 112
Which artifact is caused by defects in the crystals of the transducer?

- A. Dropout
- B. Mirror image
- C. Ringdown
- D. Side lobe

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Defects in transducer crystals result in missing or weakened signals along the beam path produced by those elements, creating dropout. In array transducers, dropout typically appears as vertical or horizontal dark zones depending on which elements are affected.
According to sonography instrumentation reference:
"Crystal failure results in areas of signal dropout directly beneath the defective elements due to loss of transmitted or received signals." Therefore, the correct answer is D: Dropout.
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NEW QUESTION # 113
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