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ARDMS SONOGRAPHY PRINCIPLES AND INSTRUMENTATION PRACTICE TEST CCI REVIEW with Answers

WHICH FREQUENCY IS BEST TO EVALUATE STRUCTURES LYING 1 TO 2 CM FROM THE TRANSDUCER? - **8 MHZ**

WHICH ULTRASOUND PARAMETER DIRECTLY AFFECTS AN ULTRASOUND BEAM'S INTENSITY? - **OUTPUT POWER**

WHICH PARAMETER IS MOST LIKELY TO AFFECT SPATIAL RESOLUTION? - **DEPTH OF VISUALIZATION**

WHICH TERM DESCRIBES THE AVERAGING TOGETHER OF SCAN LINES FROM MULTIPLE ANGLES TO CREATE ONE IMAGE? - **SPATIAL COMPOUNDING**

ACCORDING TO ALARA (AS LOW AS REASONABLY ACHIEVABLE) GUIDELINES, WHICH PARAMETER SHOULD BE MINIMIZED? - **TRANSMIT POWER**

WHICH IMAGING MODE REQUIRES A BROADBAND TRANSDUCER? - **CONTINUOUS WAVE DOPPLER**

WHAT AFFECTS THE BEAM WIDTH IN THE NEAR FIELD? - **TRANSDUCER APERTURE**

WHICH CONTROL IMPROVES THE EFFECTS OF ATTENUATION? - **A. DYNAMIC RANGE**
B. PULSE INVERSION
C. MULTIPLE FOCAL ZONES
D. TIME-GAIN COMPENSATION

WHICH TERM DESCRIBES BLOOD FLOW CHANGES IN RESPONSE TO RESPIRATION? - **A. PHASIC**
B. PARABOLIC
C. SPONTANEOUS
D. PULSATILE

WHEN USING A 5 MHZ TRANSDUCER, IN WHICH TISSUE IS THE ULTRASOUND WAVELENGTH SHORTEST? - **FAT**

WHICH VARIABLE CAN CAUSE AN ACOUSTIC SHADOW ARTIFACT? - **SMALL ACOUSTIC IMPEDANCE MISMATCH**

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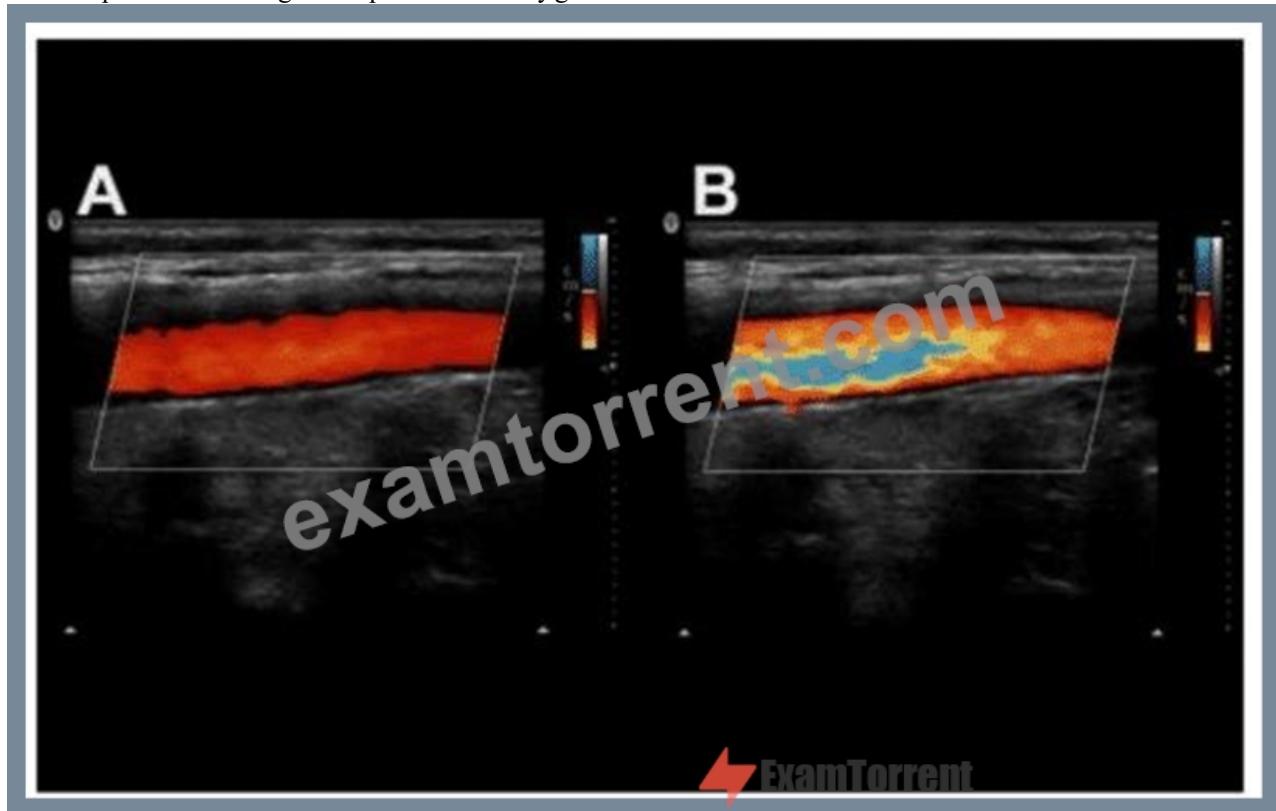
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ARDMS Sonography Principles and Instrumentation Sample Questions (Q25-Q30):

NEW QUESTION # 25

Which color control adjustment caused the change from image A to image B?

A close-up of a medical image Description automatically generated



- A. Velocity scale
- B. Map
- C. Wall filter
- D. Color packet size

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In image A, the vessel shows uniform color filling without aliasing. In image B, multiple color bands are present, indicating color aliasing - where the flow velocities exceeded the Nyquist limit due to a lower velocity scale (PRF).

According to sonography Principles and Instrumentation:

"Aliasing in color Doppler appears when the Doppler shift exceeds the Nyquist limit. Reducing the velocity scale increases the likelihood of aliasing."

* Changing the map (A) would modify the color hues but not introduce aliasing.

* Wall filter (C) affects low-velocity signals but not aliasing.

* Color packet size (D) affects frame rate and sensitivity, not aliasing directly.

Therefore, the correct answer is B: Velocity scale.

NEW QUESTION # 26

What would increase with an increase in acoustic power?

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

Answer: C

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 # 27

Which situation occurs when the incident angle of a sound beam is adjusted to be perpendicular to a soft tissue interface?

- A. Refraction
- **B. Reflection**
- C. Cavitation
- D. Range ambiguity

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Reflection is maximized when the ultrasound beam strikes a tissue interface at 90 degrees (perpendicular).

This angle provides optimal return of echoes for imaging.

According to sonography instrumentation reference:

"Maximal reflection occurs when the sound beam strikes a boundary at 90 degrees." Therefore, the correct answer is D: Reflection.

NEW QUESTION # 28

Which type of display process rescans only the region of interest and improves resolution?

- A. Spatial compounding
- B. Frequency compounding
- **C. Write magnification**
- D. Read magnification

Answer: C

Explanation:

Write magnification, or pre-processing zoom, involves rescanning the region of interest (ROI) with more scan lines, thus acquiring new data for that specific area. This process increases the spatial resolution of the image in the magnified area because it gathers more detailed data by adjusting the scan parameters, resulting in improved image quality. This is different from read magnification (post-processing zoom), which simply enlarges the existing image data without increasing resolution.

Reference:

ARDMS Sonography Principles & Instrumentation Guidelines

Hedrick WR, Hykes DL, Starchman DE. Ultrasound Physics and Instrumentation. 4th ed. Philadelphia, PA: Elsevier Saunders; 2005.

NEW QUESTION # 29

Which feature is a characteristic of continuous wave Doppler?

- A. Low thermal index
- **B. Dedicated transmit and receive crystals**
- C. Range specificity
- D. Aliasing

Answer: B

Explanation:

Continuous wave Doppler uses two crystals - one for transmitting and one for receiving ultrasound waves continuously. This allows for the measurement of high velocities without aliasing, a common limitation in pulsed wave Doppler. However, continuous wave Doppler does not have range specificity, meaning it cannot precisely determine the depth from which the Doppler signal is returning. Reference: ARDMS Sonography Principles and Instrumentation, Chapter on Doppler Ultrasound.

NEW QUESTION # 30

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