

DOWNLOAD PDF GENERAL ULTRASOUND PHYSICS P.A.S.S. WORKBOOK

Chapter 1 : Vascular Ultrasound Technology Workbook - Ultrasound Tech Program

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Elementary Principles List terms associated with the production of sound waves Outline the relationships between frequency, wavelength, and propagation speed State the properties of ultrasound waves and their effects upon each other Identify physical units as they apply to diagnostic ultrasound Recall measurement dimensions and how they relate to diagnostic ultrasound Section 2: Propagation of Ultrasound Through Tissues Recognize the interaction of sound with tissue List the sources associated with attenuation State useful diagnostic frequency ranges Recognize and explain terminology associated with image characteristics Section 3: Ultrasound Transducers Identify the various types of transducers Recognize the advantages and disadvantages of the various types of transducers Outline the formation of the sound beam Define resolution and List the various parameters that affect resolution. Outline the care and maintenance of transducers and the importance of maintaining them State the different methods of focusing Section 4: Pulse Echo Instruments Identify the general concepts of the range equation Define pulsing characteristics including pulse repetition frequency, pulse repetition period, pulse duration, spatial pulse length, and duty factor Identify the various stages and components of pulse echo instruments Define dynamic range Section 5: Images, Storage, and Display Recognize the role of the scan converter Outline the various steps in the scan version process Differentiate the types of scan converters digital versus analog Identify the various types of display devices State the differences between pre and post-processing List the various processes associated with pre and post-processing. Define persistence, frame averaging, and other functions associated with pre and post-processing Identify the various types of recording and archiving devices and techniques Section 7: Artifacts Identify the various types of artifacts State the mechanisms behind the production of the various artifacts Identify the characteristics of the various artifacts Recognize the effects of artifacts on measurements Section 9: Quality Assurance of Ultrasound Instruments State the need for a quality assurance program Compare the various methods used to evaluate the performance of ultrasound instruments Recognize the differences between test objects and tissue phantoms List the parameters that are evaluated with tissue phantoms List the parameters that are evaluated with test objects Identify the materials used in the various phantoms and test objects to obtain measurements State the need for preventative maintenance and record keeping Recognize statistical indices and state their importance Section Bioeffects and Safety Outline the various acoustic output quantities Identify the methods used to determine power Recognize the various intensities associated with diagnostic ultrasound State the relationship of intensity and power to various operating modes Recognize the acoustic output labeling standard associated with thermal and mechanical index State the ALARA principle and its implementation Apply the methods needed to reduce acoustic exposure Recognize the production of biologic effects Differentiate cavitation and thermal mechanisms List the use of various experimental studies regarding biological effects Identify the guidelines and regulations set forth by the AIUM, NEMA, and FDA Recognize the various electrical and mechanical hazards associated with diagnostic imaging Course Instructors BA, RT, RDMS, RDCS, RVT President, Program Director. Gulfcoast Ultrasound Institute, Inc. No relevant financial relationships to disclose. Mark Swanson Clinical Instructor. Speakers will disclose any relevant commercial relationships prior to the start of the educational activity. Content Validation All presentations for this CME activity were reviewed and approved by members of the GUI CME Review Committee to determine content validity and to ensure that no conflicts of interest exist prior to the activity commencement or material compilation. Disclosure of Individuals in Control of Content In addition to the faculty listed the following individuals are recognized by GUI as being in control of content of this program: The Gulfcoast Ultrasound Institute designates this enduring material for a maximum of Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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