

Sonography Tech

Essentials of Physics & Sound, Image Interpretation, Tools, Techniques,



OVERVIEW

Scope of Practice

- Ultrasound (a.k.a., ultrasonography and sonography) involves the following aspects of skills, practice and technology:
 - patient care
 - quality control
 - diagnostic procedures
 - computer data acquisition & processing
- Ultrasound technology is a multidisciplinary field, in which medicine is linked to mathematics and quantitative sciences, including:
 - geometry
 - physics
 - computer technology
- Ultrasound diagnostic imaging technology is used to visualize subcutaneous body structures, for possible pathology or lesions
 - structures best suited to sonographic imaging include:
 - soft tissue
 - muscles
 - joints
 - organs
 - internal organs
- In physics, the term "ultrasound" applies to all acoustic energy with a frequency above human hearing (20,000 hertz [Hz] or 20 kilohertz [kHz])
 - Typical diagnostic sonographic scanners operate in the frequency range of 2-18 megahertz (MHz). Hundreds of times greater than the limit of human hearing.
- However, the choice of frequency is a trade-off between spatial resolution of the image and imaging depth.
 - Lower frequencies produce best resolution, but images deeper into the body (20MHz). See page 6 for a Glossary of Sonographic Terminology.

How Ultrasound Works

- Sonography is effective for imaging soft tissues of the body
 - superficial structures such as muscles, tendons, tendons, bones and the vascular system are imaged at a higher frequency (2-18 MHz), which provides better axial and lateral resolution
 - deeper structures such as liver and kidney are imaged at a lower frequency (1-6 MHz), which provides less axial and lateral resolution but greater penetration (i.e., increased imaging depth)
- A general-purpose sonographic machine may be used for most imaging purposes; specialty applications may be imaged by use of a specialty transducer
 - Most ultrasound procedures are done using a transducer on the surface of the body, but improved diagnostic procedures are often possible if a transducer can be placed inside the body
 - For this purpose, specialty transducers (including endovaginal, endorectal and transesophageal transducers) are commonly employed

PHYSICS & SOUND

Understanding Sound Waves

- In physics, all waves carry energy from one location to another
- Sound is a mechanical wave in which particles move (i.e., the molecules vibrate back and forth from a fixed position)
- Sound travels in a straight line and sound waves are longitudinal waves
- Sound waves are identified by the following acoustic variables: pressure, particle displacement, density and temperature
- In diagnostic ultrasound, pulses (i.e., sound) travel through tissue
- Reflections arising from structures in the body return to the transducer and are processed into images
- To understand exactly how that happens, let's review how sound waves work.

Pressure

- The ratio of force acting on a surface object.
- If there were no forces, or pressure, everything would be in a state of constant rest.
- The Law of Inertia explains that a body in motion will remain in motion; likewise, a body at rest will stay at rest until acted upon by an outside force.
- Ultrasound moves human soft tissues out of its state of rest.

FORMULA

Pressure = Force/Area OR $P = F/A$

Units of measure: Newtons/area or N/m²

Particle Displacement

- The distance the body has moved when being impinged upon by a force (i.e., how far the particles moved from their equilibrium position)

Density

- The property common to all matter and the one property that makes each type of matter unique
- Density is defined as mass per unit volume; the more mass confined to a given volume, the greater the density
- In ultrasound, density is referred to as mass density, which can be defined as the mass of the object divided by its volume

FORMULA

Density = Mass/Volume OR $D = M/V$

Units of measure: kg/m³ or g/cm³

Temperature

- The measurement of relative coolness or warmth of an object
- Temperature in ultrasound becomes important because the speed of sound varies with the temperature of the tissue that is being scanned

7 Parameters of Sound Waves

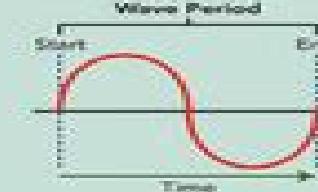
- The seven parameters of sound waves are: period, frequency, amplitude, power, intensity, wavelength, and speed
- Period and frequency describe the speed of the wave
- Amplitude, power and intensity describe the strength of the wave (i.e., magnitude); these parameters tend to be directly related, when intensity increases so does power and amplitude

Period

- Time it takes for a wave to vibrate a single cycle (i.e., from the start of one cycle to the start of the next cycle)

Equipment & Terminology

- Reported in units of time (seconds, milliseconds, hours, days)
- The value of period in diagnostic ultrasound is one tenth to one half of a millionth of one second
- period determined by the sound source only, not by the tissue being scanned
- period is NOT adjustable by the sonographer (ultrasound beam with a particular transducer)

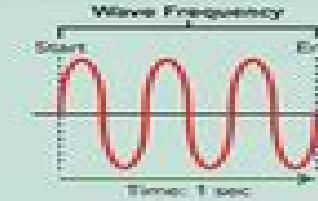


Frequency

- Number of events that occur in a specific duration of time
- In diagnostic ultrasound, the frequency of a wave is described as the number of cycles occurring in one second
- Frequency is important in diagnostic ultrasound because it affects penetrability and image quality
- Measured in units per second or Hz (1 cycle/second = 1 Hz)
- Frequency ranges are from 2MHz to 10 MHz (2 million to 10 million per second)
 - frequency determined by the sound source only, not by the tissue being scanned
 - frequency is NOT adjustable by the sonographer with a particular transducer

Frequency Spectrum of Sound

ultrasound	less than 20 Hz
sound	sound between 20 Hz and 20 kHz
infrasound	greater than 20 kHz



Amplitude

- Defined as the "bigness" of the wave, it is the difference between the minimum value and the average value of the acoustic variable
- Measured in units of pressure (pascals), density (kg/cm³) and particle motion (any distance)
- Amplitude is determined by the sound source, but amplitude decreases as it travels through the body
 - decrease in sound depends on the characteristic of the sound and the body tissue the wave is travelling through
 - the sonographer can alter the initial amplitude on an ultrasound machine
- Amplitude is measured from the middle value to the maximum value

Diagnostic Sonography Study Guide

**Jann Dolk, Nancy Smith Miner, Oscar
del Barco, Monica McCrea, Lisa M. B.
Simons**

Diagnostic Sonography Study Guide:

Study Guide and Laboratory Exercises for Technology for Diagnostic Sonography - E-Book Wayne R. Hedrick, Paul R. Wagner, 2016-06-24 Gain a firm foundation for sonography practice Corresponding to the chapters in Hedrick's Technology for Diagnostic Sonography this study guide focuses on basic concepts to help you master sonography physics and instrumentation. It includes laboratory exercises designed to teach you how to operate a scanner and comprehensive review questions allow you to assess your knowledge. Not only will you learn the theoretical knowledge that is the basis for ultrasound scanning but also the practical skills necessary for clinical practice. Laboratory exercises teach you the function of operator controls and how to optimize image quality and practice ALARA and include step by step instructions for scanner operation for hands on application and practice. 250 review questions help you assess your understanding of sonography physics and instrumentation and identify areas of knowledge that may need further study. Key Points at the beginning of each chapter emphasize the most important sonography principles that you need to understand and apply.

The Physics and Technology of Diagnostic Ultrasound Robert Wyatt Gill, 2020-09 Companion to the popular ultrasound physics textbook The Physics and Technology of Diagnostic Ultrasound A Practitioner's Guide Second Edition. Contains 125 short questions keyed to the textbook chapters and model answers for each. Designed for both students and teachers. *Secrets of the ARDMS Sonography Principles & Instrumentation Exam Study Guide: Unofficial ARDMS Test Review for the American Registry for Diagnostic M*, 2018-04-12 Includes Practice Test Questions Secrets of the ARDMS Sonography Principles A comprehensive General Strategy review including Make Predictions Answer the Question Benchmark Valid Information Avoid Fact Traps Milk the Question The Trap of Familiarity Eliminate Answers Tough Questions Brainstorm Read Carefully Face Value Prefixes Hedge Phrases Switchback Words New Information Time Management Contextual Clues Don't Panic Pace Yourself Answer Selection Check Your Work Beware of Directly Quoted Answers Slang Extreme Statements Answer Choice Families A comprehensive Content review including Sonogram Ultrasound Technician Identification Triggers Obstetrical Ultrasound OSHA Standards ALARA Principle PQRST Method Decibel Acoustic Impedance Pseudocyst Amplitude Curie Point Anechoic Aponeurosis Axial Resolution Pulse Repetition Rate Piezoelectricity Pulse Wave Transducers A Mode Imaging Transmitted Beam Anencephaly Oligohydramnios and much more. Disclaimer The American Registry for Diagnostic Medical Sonography Inc ARDMS does not endorse this product nor is the ARDMS affiliated in any way with the owner or any content related to this website. **Workbook for Diagnostic Medical Sonography: The Vascular Systems** Ann Marie Kupinski, 2022-09-28 Designed to accompany the 3rd Edition of Anne Marie Kupinski's text Workbook for Diagnostic Medical Sonography A Guide to the Vascular System 3rd Edition by Rachel Kendall offers a full complement of self study aids for active learning that enable you to assess and build your knowledge as you advance through the text. Most importantly it helps you get the most out of your study time with a variety of custom designed

exercises to help you master each objective
Sonography, 1e Wayne R. Hedrick, 2012-04-26

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Susanna Ovel,2019-05-22 Ensure you can correctly answer any and all questions on their registry exams Sonography Exam Review Physics Abdomen Obstetrics and Gynecology 3rd Edition provides the exact review materials you need to pass the three main sonography exams physics abdomen and OB GYN Each chapter is arranged in table and outline format with 50 review questions at the end of the chapter and a mock exam at the end of each section New and revised chapters in this 3rd edition include additional information on salivary glands musculoskeletal and male pelvis sonography Updated information on patient care imaging techniques and protocols is also included and much more Complete preparation for the three main ARDMS exams physics abdomen and ob gyn covers the three subject areas required for general ultrasound practice More than 1 900 questions in registry format 1 910 in the text and 700 online allow you to thoroughly prepare for the registry exams using multiple methods of learning Content review in outline and tabular format offers a quick concise review of key terms anatomy functions scanning technique lab values and pathology for each registry subject Rationales for answers to mock exam questions are provided to help you understand why an answer is correct and incorrect More than 350 ultrasound scans are included in the abdominal and ob gyn sections Color insert of Doppler images of anatomy and pathology prepares you to answer questions related to Doppler imaging NEW Updated coverage of the neck to include salivary glands NEW Revised section on the male pelvis to include penile sonography NEW Additional coverage on imaging techniques and protocols

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Barbara Hall-Terracciano,Susan Stephenson,2022-09-01 Designed to accompany the 5th Edition of Susan Raatz Stephenson and Julia Dmitrieva s text Workbook for Diagnostic Medical Sonography A Guide to Clinical Practice Obstetrics and Gynecology 5th Edition by Barbara Hall Terracciano and Susan R Stephenson offers a full complement of self study aids for active learning that enable you to assess and build your knowledge as you advance through the text Most importantly it helps you get the

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