

Sonography Tech

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

OVERVIEW

Scope of Practice

- **Ultrasound (s.k.a., ultrasonography and/or 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 technique is used to visualize subcutaneous body structures, for possible pathology or lesions.**
 - structures best suited to sonographic imaging include:
 - tendons
 - muscles
 - joints
 - vessels
 - 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 less resolution, but image deeper into the body

(NOTE: 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, testes, breast and the neonatal brain are imaged at a higher frequency (7-18 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 endorectal, 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 tissue out of its state of rest.**

FORMULA

Pressure = Force/Area OR $P = F/A$
 Units of measure: Newtons/area or N/m^2

Particle Displacement

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

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/M^3 , g/cm^3

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

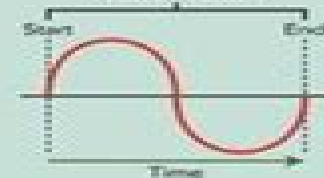
- The seven parameters of sound waves are: period, frequency, amplitude, power, intensity, wavelength and speed
- Period and frequency describe the speed of the wave
- Amplitude, power and intensity describe the strength of the wave (s.k.a., magnitude); these parameters tend to be directly related; when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

- 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 tech) with a particular transducer

Wave Period



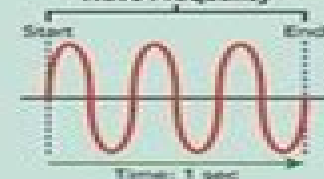
Frequency

- 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 penetration 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

infrasonic: less than 20 Hz
 audible: sound between 20 Hz and 20 kHz
 ultrasound: greater than 20 kHz

Wave Frequency



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 (g/cm^3) 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 traveling through
- the sonographer can alter the initial amplitude on an ultrasound machine
- Amplitude is measured from the middle value to the maximum value

Medical Terminology Study Guide Ultrasound

Genevieve Love Smith



Medical Terminology Study Guide Ultrasound:

Medical Terminology: An Illustrated Guide Barbara Janson Cohen, Shirley A Jones, 2020-02-04 *Medical Terminology An Illustrated Guide Ninth Edition* helps readers develop a fundamental knowledge of the medical terminology necessary for a career in any health care setting *Medical Terminology* Marjorie Canfield Willis, 2007-05-01 This medical terminology text uses a Programmed Learning approach that is ideal for classroom use self paced study or distance learning It is broken down into concise self instruction frames followed by review frames for immediate feedback and reinforcement Actual medical records and medical record analysis activities are used extensively throughout the book Highlights of this edition include a more engaging design additional illustrations more detailed coverage of term components chapter objectives checklists and acronyms and abbreviations charts A free bound in CD ROM contains Stedman s audio pronunciations and interactive exercises LiveAdvise Medical Terminology an online student tutoring and faculty support service is free with the book A fully customizable online course created specifically for this text is available as an additional purchase *Medical Terminology with Case Studies* Katie Walsh Flanagan, 2024-06-01 *Medical Terminology With Case Studies A Navigated Guide to Learning for Health Care Professionals Third Edition* is a fun engaging and easy to read resource on medical terminology for allied health students in athletic training occupational therapy physical therapy and more Featuring such memorable characters as Skully the pirate skeleton and Tango his trusty parrot *Medical Terminology With Case Studies* contains colorful illustrations throughout the text along with tear out worksheets for students at the end of each chapter The book is appropriate for students in both college and high school settings The textbook is divided into three sections each one covering key concepts and ideas related to medical terminology Section I A general overview of medical terminology delving into its uses purposes and career specific applications across specialties Section II An in depth examination of the specific body systems musculoskeletal cardiovascular respiratory neurological gastrointestinal integumentary endocrine urinary reproductive and sensory and the associated prefixes suffixes and combining forms that go along with them Section III Appendices including medical abbreviations ICD CPT medical coding and pharmacology terms Updated features in the Third Edition include New terms throughout Updated graphics throughout New case studies New chapter on health professions Updated chapter bibliographies Included with the text are online supplemental materials for faculty use in the classroom Combining bright colorful characters with easy to read resources *Medical Terminology With Case Studies A Navigated Guide to Learning for Health Care Professionals Third Edition* is an invaluable terminology guide for allied health students *Study Guide for Clinical Procedures for Medical Assistants - E-Book* Kathy Bonewit-West, 2022-10-12 Learn how to think critically and perform competently in the clinical setting Correlating to chapters in *Clinical Procedures for Medical Assistants 11th Edition* this study guide provides additional activities review questions and exercises designed to prepare you to work in a modern medical office Content aligns to the new 2022 medical assisting educational competencies and provides procedure checklists

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Medical Terminology Barbara J. Cohen,Ann

DePetris,2013-02-08 Medical Terminology An Illustrated Guide 7e by Barbara Janson Cohen uses a stepwise approach to learning medical terminology Part 1 describes how medical terms are built from word parts Part 2 introduces body structures diseases and treatments and Part 3 describes each body system Individual chapters also build on knowledge in stages the Key Terms sections list the terms most commonly used more specialized terms are included in a later section entitled Supplementary Terms The current edition includes a robust student ancillary package delivered under the PASSport to Success brand with assessment exercises chapter quizzes and searchable text online and a complete suite of instructor resources The addition of PrepU as a packaging option provides a powerful value to students the online study experience helps them to understand and retain course information and helps instructors to better assess what their students may be struggling with

Medical Terminology Instructor's Guide Genevieve Love Smith,1991-02

Veterinary Medical

Terminology E-Book Dawn E. Christenson,2019-11-06 Reader friendly and organized by body system Veterinary Medical Terminology 3rd Edition helps you quickly gain a solid understanding of veterinary terminology Essential word parts and terms are presented in the context of basic anatomy physiology and disease conditions giving you the tools to immediately apply new terminology to practical clinical situations This new edition features learning exercises at the end of each chapter to reinforce content and test your knowledge challenging you to go beyond simple memorization and become fluent in the language of veterinary medicine Updated coverage includes advancements in the vet tech field new medications treatments of today s most prevalent diseases and the latest procedures in orthopedics This third edition is an essential resource for learning the medical terms and basic principles of veterinary medicine A logical body systems approach and consistent chapter format help students find information quickly and learn more effectively UNIQUE Goals and objectives at the beginning of each chapter help students focus their study time and check their recall and understanding of key facts and terminology Over 200 illustrations clearly demonstrate key anatomy and physiology concepts and terminology Helpful appendices in text provide information on chemical symbols and elements and common veterinary medical abbreviations A

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Programmed Learning Approach to Medical Terminology with Navigate Advantage Access Judi L.

Nath,2020-04-30 Programmed Learning Approach to Medical Terminology Third Edition is ideal for self paced study classroom use or distance learning Reflecting current medical usage the book facilitates study by including questions on the right side of each page and answers on the left A bookmark packaged with the text allows students to cover the answers as they move down the page and reveal them as they go This edition features a more concise presentation new content exercises in the book and online and a robust array of online teaching and learning resources Creasy-Resnik's Study Guide for Maternal Fetal Medicine E-Book Charles J. Lockwood,Thomas Moore,Joshua Copel,Robert M Silver,Robert Resnik,Judette Louis,Lorraine Dugoff,2023-04-15 Comprehensive in scope easy to use and aligned to the gold standard text in the field Creasy Resnik s Study Guide for Maternal Fetal Medicine is a highly effective study tool Questions and answers written by Creasy Resnik authors prepare you and assess your knowledge Includes hundreds of questions and answers written by renowned experts in obstetrics gynecology and perinatology with rationales linked directly to Creasy and Resnik s Maternal Fetal Medicine Principles and Practice 9th Edition Covers all topics and content in the core text including maternal and fetal viral infections sexually transmitted disease and current information on genetics all reflecting the latest evidence based guidelines and research **Pass the TEAS V! Complete Study Guide with Practice Questions** Complete Test Preparation Inc.,2012-09-07 Complete TEAS V study guide with practice test questions tutorials test tips and multiple choice strategies prepared by a dedicated team of experts **Study Guide for Today's Medical Assistant - E-Book** Kathy Bonewit-West,Sue Hunt,2020-03-02 Get unrivaled practice mastering all the concepts and skills necessary for success in today s fast paced medical office with the Study Guide for Today s Medical Assistant Filled with assignment sheets pre and post tests vocabulary practice short answer review questions critical thinking activities competency practice and evaluations for each chapter this comprehensive study guide is the perfect hands on resource to jump start your medical assisting expertise The 4th Edition features enhanced coverage of healthcare law certification electronic health records motivational interviewing office management and more as well as additional procedures to address behavior based competencies and more EHR practice Expanded application to SimChart for the Medical Office provides more realistic practice with EHRs Consistent and meticulous coverage throughout all elements of the text and its learning package provide reliable content and

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Using Medical Terminology Judi Lindsley Nath,2006 This comprehensive medical terminology textbook includes detailed coverage of anatomy physiology and pathophysiology The author s unique teaching approach emphasizes

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