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

OVERVIEW

Scope of Practice

- Ultrasound (a.k.a., ultrasonography and/or sonography) involves the following aspects of skills, practice and technology:
- · partions 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
- structures best suited to sonographic **imaging** includes
- sendone
- muscles
- journes - weeksells
- internal organs
- . In physics, the term "ultrasound" applies to all acoustic energy with a frequency above human hearing (20,000 hertz [Hz] or 20 **Adjoinents (Arts)**
 - · Typrical 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 tradeoff between spetial resolution of the image and imaging depths
- lower frequencies produce less resolution. but image deeper into the body
- MOTE: See page 6 for a Glessery of Sonographic

How Ultrasound Works

- · Sonography is effective for imaging soft. thesees of the body
- · superficial structures such as muscles, tendons, testes, breast and the recovarial brain are imaged at a higher frequency (7-18 MHz), which provides better axial and lateral resolution
- dooper structures such as liver and kidney are imaged at a lower frequency (1-6 MHzt, which provides less asial 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 ultrassound 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
 - forthispurpose, specialty transducers (including endoveginal, endorectal and transesophageal transducers) are commonly employed

PHYSICS & SOUND

Understanding Sound Waves

- . In physics, all waves carry energy from one location
- Sound is a mechanical wave in which particles move G.e., the molecules vibrate back and forth from a fixed positions
- Sound travels in a straight line and sound waves are **Ignigitudinal** saves
- . Sound waves are identified by the following acoustic variables: pressure, particle displacement, density and Separate property
- . In diagnostic ultrasound, pulses (i.e., sound) travel - shoowah siesum
- 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

Prossume

- 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.
- Ultracound 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/

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)

- . The property common to all matter and the one property that makes each type of matter unique
- Donaity is defined as mass per unit volume; the more mass confined to a given volume, the greater the demaity
- . 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*, g/cm*

Terriporature.

- The measurement of relative coolness or warmth of an obsect.
 - · 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, wevelength and speed.
- . Period and frequency describe the speed of the wave
- Amplitude, power and intensity describe the strength of the wave (a.k.a., magnitude); these parameters tend to be directly related, when intensity increases so do power and amplituda

Period

 Time it takes for a wave to vibrate a single cycle il.e., from the start of one cycle to the start of the next

- Reported in units of time (seconds, milliseconds, 7 because, diawalt.
- . 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



Enequency

- . Number of events that occur in a specific duration
- . In diagnostic ultrasound, the frequency of a wave in described as the number of cycles occurring in one
- Frequency is important in diagnostic ultrasound because it affects penetration and image quality
- Measured in units per second or Hz (1 cycle/second =
- 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
- Inequency is NOT adjustable by the sonographer with a porticular transducer

Frequency Spectrum of Sound

infrascond hose than 20 Mr. sound between 20 Hz and 20 kHz ultranound: 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 (q/ on) and particle motion (any distance)
- · Amplitude is determined by the sound source, but
- amplitude decreases as it travely through the body · decrease in sound depends on the characteristic of the sound and the body seave the wave is traveling 7
- the sonographer can alter the initial amplitude on an ultrasound machine · Amplitude is measured from the middle value to the
- endodengen various

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Judi L. Nath

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