

# ultrasound



linear array probe (high resolution): used for musculoskeletal and vascular US



phased array probe: used for abdominal or cardiac US



**FAST scan** (to assess shock etiology in trauma)

- ① perihepatic view: assess presence of fluid in morrison's pouch (between liver & kidney)
- ② subxiphoid cardiac view: assess for tamponade
- ③ perisplenic view: assess presence of fluid in cavity between spleen & kidney
- ④ pelvic view: assess presence of fluid near bladder
- ⑤ anterior lung view: assess for pneumothorax
- ⑥ pleural spaces: assess for hemothorax

**gallbladder scan (A)**: examine anatomy and assess for presence of stones (hyperechoic + shadowing) or sludge (hyperechoic, no shadow)

**abdominal aorta (B)**: examine aorta width (>5cm = surgery consult)

**cross-sectional view to measure aorta** (C): standard of care for starting central lines

**pheral vascular (C)**: difficult IV placement - artery pulsates, vein will collapse with pressure, nerve has honeycomb appearance



curved array probe: used for abdominal or cardiac evaluation or OBGYN US (uterine)

## PHYSICS:

- $\uparrow$  frequency =  $\uparrow$  resolution
- B mode = 2D, cross-section
- M mode: object in motion
- signal weakens as it travels more levels of tissue
- time gain compensation will adjust gain for different depths

# Ultrasound Technician Study Guide

**Michael P. Robb**



## **Ultrasound Technician Study Guide:**

*Ultrasound Technician* National Learning Corporation, 2011 The *Ultrasound Technician Sonographer Passbook R* prepares you for your test by allowing you to take practice exams in the subjects you need to study It provides hundreds of questions and answers in the areas that will likely be covered on your upcoming exam **Radiology-Ultrasound Specialty**

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*INTRO: A Guide to Communication Sciences and Disorders, Third Edition* Michael P. Robb, 2018-12-06

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**Current Veterinary Therapy** David E. Anderson, Michael Rings, 2008-11-20

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### **Table of Contents Ultrasound Technician Study Guide**

1. Understanding the eBook Ultrasound Technician Study Guide
  - The Rise of Digital Reading Ultrasound Technician Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Ultrasound Technician Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ultrasound Technician Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ultrasound Technician Study Guide
  - Personalized Recommendations
  - Ultrasound Technician Study Guide User Reviews and Ratings
  - Ultrasound Technician Study Guide and Bestseller Lists

5. Accessing Ultrasound Technician Study Guide Free and Paid eBooks
  - Ultrasound Technician Study Guide Public Domain eBooks
  - Ultrasound Technician Study Guide eBook Subscription Services
  - Ultrasound Technician Study Guide Budget-Friendly Options
6. Navigating Ultrasound Technician Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Ultrasound Technician Study Guide Compatibility with Devices
  - Ultrasound Technician Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ultrasound Technician Study Guide
  - Highlighting and Note-Taking Ultrasound Technician Study Guide
  - Interactive Elements Ultrasound Technician Study Guide
8. Staying Engaged with Ultrasound Technician Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ultrasound Technician Study Guide
9. Balancing eBooks and Physical Books Ultrasound Technician Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ultrasound Technician Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Ultrasound Technician Study Guide
  - Setting Reading Goals Ultrasound Technician Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ultrasound Technician Study Guide
  - Fact-Checking eBook Content of Ultrasound Technician Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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