



Ultrasound Scanning: Principles and Protocols, 3rd Edition

By Betty Bates Tempkin BA

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Presents a visual, step-by-step method for scanning and image documentation to provide diagnostic sonograms for physicians. Scanning principles and specific instructions are provided to improve the quality of sonographic studies and establish standardization. The text includes criteria for professionalism and clinical skills, plus requisites for handling ultrasound equipment, image labeling, image technique, and case presentation. A universal method for scanning and documenting pathologies is provided. The protocol chapters provide detailed scanning protocols for the major blood vessels and organs of the abdomen, the male and female pelvic regions and obstetrics. Protocols for the abdomen, scrotum, thyroid gland, breast, neonatal brain, vascular and cardiac systems are also included.

- Full and limited scanning protocols discuss the location of specific vessels or organs, anatomy and physiology, sonographic appearance, and normal variations.
- Protocols follow guidelines provided by the American Institute of Ultrasound in Medicine (AIUM), the organization that sets sonography policies, practice standards, safety procedures, and performance guidelines.
- Full discussion of each scanning protocol consistently addresses patient preparation, type of transducer, breathing techniques, comprehensive surveys, and required images.
- Focus on scanning protocols prepares students for their most important function as a sonographer ? providing diagnostic sonograms for physicians.
- Detailed line drawings accompany most sonograms, showing which structures and outlines should be discerned within the image.
- Over 1,400 images and drawings are accompanied by detailed scanning instructions with illustrations for patient position and transducer movement, plus images with accompanying drawings for every AIUM-approved protocol.
- 10 review questions are added to the end of each chapter, allowing students to quiz themselves.
- 250 new images include 175 protocol images in the abdomen chapter plus

75 others, completing all the protocols approved by the AIUM.

- Ergonomics section is added to Chapter 1, providing information on preventing occupational injury.
- Human disease information is added to Chapter 3, with overview of sonography and pathology.
- Review questions have been added to the end of each chapter.
- Evolve® Resources for instructors includes test bank and image collection.

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