PART I    Introduction: Purpose and Use, 1

PART II   Image Protocol for Abnormal Sonographic Findings, 3

PART III  The Abdomen, 8

SECTION ONE    Image Protocols for Full Sonographic Studies of the Abdomen, 8

Liver Study With Full Abdomen, 11
Aorta Study With Full Abdomen, 33
Inferior Vena Cava Study With Full Abdomen, 59
Gallbladder and Biliary Tract Study With Full Abdomen, 82
Pancreas Study With Full Abdomen, 107

SECTION TWO   Image Protocols for Limited Sonographic Studies of the Abdomen, 186

Renal Study With Full Abdomen, 131
Spleen Study With Full Abdomen, 162

Aorta Study With Limited Abdomen, 188
Inferior Vena Cava Study With Limited Abdomen, 196
Right Upper Quadrant Study With Limited Abdomen, 200
Gallbladder and Biliary Tract Study With Limited Abdomen, 220
Pancreas Study With Limited Abdomen, 237
Renal Study With Limited Abdomen, 253
Spleen Study With Limited Abdomen, 267
PART IV The Pelvis, 273

SECTION ONE Image Protocol for the Transabdominal Sonographic Study of the Female Pelvis, 273
  Transabdominal Female Pelvis Study, 275

SECTION TWO Image Protocol for the Transvaginal Sonographic Study of the Female Pelvis, 291
  Transvaginal Female Pelvis Study, 293

SECTION THREE Image Protocols for Sonographic Studies of the Male Pelvis, 307
  Transrectal Prostate Gland Study, 309
  Scrotum Study, 315
  Penis Study, 340

PART V Obstetrics, 344

SECTION ONE Image Protocol for the Sonographic Study of the Early First Trimester, 344
  Early First Trimester Study, 346

SECTION TWO Image Protocol for the Sonographic Study of the Late First Trimester, 352
  Late First Trimester Study, 354

SECTION THREE Image Protocol for the Sonographic Study of the Second and Third Trimesters, 359
  Second and Third Trimesters Study, 361

SECTION FOUR Image Protocol for the Sonographic Study of Multiple Gestations, 392
  Multiple Gestations Study, 394
  The Biophysical Profile, 397

PART VI Small Parts, 405

SECTION ONE Image Protocol for the Sonographic Study of the Musculoskeletal System, 405
  Musculoskeletal Study (Rotator Cuff, Carpal Tunnel, and Achilles Tendon), 407
INTRODUCTION: PURPOSE AND USE

*Pocket Protocols* is a response to the need for a practical imaging reference to use during ultrasound examinations.

The majority of the image protocols follow the American Institute of Ultrasound in Medicine’s (AIUM) imaging guidelines. Any other image protocols are patterned after the AIUM’s suggestions and the authors’ collective experiences.

*Pocket Protocols* is a reference devoted to documenting technically accurate and thorough ultrasound image studies for diagnostic interpretation by the physician. These comprehensive imaging protocols include image and labeling examples for abdominal, pelvic, obstetric, small parts, vascular, and echocardiography studies.

Images are presented in a logical manner and specify the scanning plane and area of interest.
These reference materials are just that. They do not include or endorse the exclusion of the necessary prerequisites for accomplished scanning skills.

I hope *Pocket Protocols* serve as a practical reference and imaging standard that helps sonographers obtain comprehensive, consistent, and technically accurate image representations of ultrasound studies.

*Betty Bates Tempkin, BA, RT(R), RDMS*
PART III

THE ABDOMEN

SECTION ONE ▪ Image Protocols for Full Sonographic Studies of the Abdomen
This section includes extensive images of the area(s) of interest accompanied by limited views of other major abdominal structures.

- Liver Study With Full Abdomen
- Aorta Study With Full Abdomen
- Inferior Vena Cava Study With Full Abdomen
- Gallbladder and Biliary Tract Study With Full Abdomen
- Pancreas Study With Full Abdomen
- Renal Study With Full Abdomen
- Spleen Study With Full Abdomen
Liver Study With Full Abdomen

Liver • Longitudinal Images

1. Longitudinal image of the left lobe of the liver to include the inferior margin and the aorta.

2. Longitudinal image of the left lobe of the liver to include the diaphragm and caudate lobe.
3. Longitudinal image of the right lobe of the liver to include the inferior vena cava (IVC) where it passes through the liver.

4. Longitudinal image of the right lobe of the liver to include the main lobar fissure, gallbladder, and portal vein.
5. Longitudinal image of the right lobe of the liver to include part of the right kidney for parenchyma comparison.

6. Longitudinal image of the right lobe of the liver to include the dome and adjacent pleural space.

Labeled: LIVER SAG RT LOBE

Labeled: LIVER SAG RT LOBE
8. Axial image of the left lobe of the liver to include the ligamentum teres.

**SCANNING TIP:** Depending on liver size and shape, it may be possible to document an axial image of the left lobe that includes both the lateral margin and ligamentum teres. If so, label the image as follows:

**LIVER TRV LT LOBE**
POCKET PROTOCOLS FOR Sonography Scanning FOURTH EDITION

The practical reference that’s perfect for ultrasound exams

Featuring a new design, smaller size, and easy-to-use section dividers, *Pocket Protocols for Sonography Scanning, Fourth Edition* gives you quick and convenient access to protocols that follow the American Institute of Ultrasound in Medicine (AIUM) guidelines—including a universal method for documenting any type of pathology.

Now you can take the guesswork out of image documentation with:

- Step-by-step instructions
- More than 700 images
- NEW! Musculoskeletal protocols
- NEW! Attractive, streamlined 2-color design
- Examples of the required images for the physician’s diagnostic interpretation
- Documentation specifics for full and limited abdominal studies, gynecologic and obstetric exams, and prostate evaluations
- Protocols for small parts, the vascular system, and echocardiography

ELSEVIER  elsevier.com