
Contents

Part I Diagnostic Ultrasound

1 Overview of Ultrasound Theory and Techniques	3
Seth Goldstein	
2 Pediatric Spinal Sonography	9
Gayathri Sreedher and Andre D. Furtado	
3 Surgical Ultrasound of the Pediatric Head and Neck.....	17
Guy F. Brisseau	
4 The Thorax	27
Christine M. Leeper, Jan Gödeke and Stefan Scholz	
5 The Liver.....	49
Juan Carlos Infante and Alexander Dzakovic	
6 Gallbladder and Biliary Tract.....	63
Christine M. Leeper, Gary Nace and Stefan Scholz	
7 The Pancreas	73
Julia Scholsching and Oliver J. Muensterer	
8 The Spleen.....	83
Julia Scholsching and Oliver J. Muensterer	
9 Abdominal Vessels.....	91
Justin Barr and Sara K. Rasmussen	
10 Gastrointestinal Tract.....	103
Christine M. Leeper, Sara K. Rasmussen and Stefan Scholz	
11 Intra-abdominal and Retroperitoneal Masses.....	121
Kevin M. Riggle and Kenneth W. Gow	

12 Emergency Ultrasound in the Evaluation of Pediatric Blunt Abdominal Trauma	133
Seth Goldstein and F. Dylan Stewart	
13 The Kidney	139
Oliver L. Sanchez, Raimondo M. Cervellione and Kimberly M. Lumpkins	
14 Adrenal Gland	155
Nathalie Kremer and Judy H. Squires	
15 The Pediatric Pelvis	165
Vincent Lee, Stacey Langford and Sameh Tadros	
16 Groin and Testicle	183
Salmai Turial	
17 Contrast-Enhanced Ultrasound (CEUS) for Children	197
Stefan Scholz	
Part II Interventional Ultrasound	
18 Ultrasound-Guided Vascular Access	209
Farokh R. Demehri and Marcus D. Jarboe	
19 Core Biopsy of Masses and Solid Organs	221
Kushal Parikh, Joseph J. Gemmete and Ranjith Vellody	
20 Fine Needle Aspiration (FNA) of the Thyroid Gland	229
Ranjith Vellody	
21 Diagnostic and Therapeutic Drainage	235
Samir K. Gadepalli	
22 Sclerotherapy of Vascular Malformations	247
Joseph J. Gemmete and Ranjith Vellody	
23 Regional Blocks for Postoperative Pain Control	265
Mihaela Visoiu	
24 An Introduction to Intraoperative Ultrasound	277
Marcus M. Malek and Marcus D. Jarboe	
Index	285

**Diagnostic and Interventional Ultrasound in Pediatrics
and Pediatric Surgery**

Scholz, S.; Jarboe, M.D. (Eds.)

2016, XV, 287 p. 278 illus., 134 illus. in color.,

Hardcover

ISBN: 978-3-319-21698-0