

Contents

- List of Contributors** v
Forewords vii
Preface ix
About the Companion Website x
- 1 Getting Started: Ultrasound Physics and Image Formation** 1
Sevan Harput, Xiaowei Zhou, and Meng-Xing Tang
- 2 Knobology and Terminology** 23
Adrian K.P. Lim
- 3 Normal Liver Anatomy: How to Perform a Liver Ultrasound Scan** 27
Adrian K.P. Lim, Ivica Grgurevic, and Matteo Rosselli
- 4 An Introduction to Contrast-Enhanced Ultrasound** 53
Adrian K.P. Lim, Chris J. Harvey, and Matteo Rosselli
- 5 Focal Liver Lesions – Characterisation and Detection** 58
Chris J. Harvey, Adrian K.P. Lim, and Matteo Rosselli
- 6 Ultrasound of the Biliary System** 83
Matteo Rosselli, Maija Radzina, and Adrian K.P. Lim
- 7 Tropical Infections of the Liver** 108
Tom Heller, Michaëla A.M. Huson, and Francesca Tamarozzi
- 8 Ultrasound in Chronic Liver Disease** 124
Matteo Rosselli, Davide Roccarina, and Ivica Grgurevic
- 9.1 Shear Wave Elastography for Liver Disease: Part 1** 156
Giovanna Ferraioli
- 9.2 Shear Wave Elastography for Liver Disease: Part 2** 165
Matteo Rosselli, Ioan Sporea, and Giovanna Ferraioli
- 10 Liver Ultrasound in the Paediatric Population** 191
Andreas Panayiotou, Maria E. Sellars, and Annamaria Deganello
- 11 Ultrasound in Vascular Liver Diseases** 209
M.Ángeles García-Criado and Annalisa Berzigotti

12 Point-of-Care Ultrasound in Liver Disease 225

Matteo Rosselli and Robert de Knegt

13 Liver Transplantation 256

Thomas Puttick and Paul S. Sidhu

14 Ultrasound in Hepatobiliary Intervention 266

Neeral R. Patel, James P.F. Burn, and Ali Alsafi

15 Advancing Ultrasound Technologies 279

Adrian K.P. Lim, James P.F. Burn, and Caroline Ewertsen

Index 286