

## Contents

**About the Editors** *x*

**List of Contributors** *xi*

**About the Companion Website** *xiii*

**Introduction** *1*

*Kimberly Palgrave and Jessica Kidd*

**Section 1 Musculoskeletal** *23*

**1 Ultrasonography of the Foot and Pastern** *25*

*Ann Carstens and Roger K.W. Smith*

**2 Ultrasonography of the Fetlock** *49*

*Eddy R.J. Cauvin and Roger K.W. Smith*

**3 Ultrasonography of the Metacarpus and Metatarsus** *85*

*Roger K.W. Smith and Eddy R.J. Cauvin*

**4 Ultrasonography of the Carpus** *128*

*Ann Carstens and Sheelagh Higgerty*

**5 Ultrasonography of the Elbow and Shoulder** *148*

*Barbara Riccio*

**6 Ultrasonography of the Hock** *173*

*Katherine S. Garrett*

**7 Ultrasonography of the Stifle** *189*

*Eddy R.J. Cauvin*

**8 Ultrasonography of the Pelvis** *229*

*Marcus Head*

**9 Ultrasonography of the Back and Neck** *243*

*Marcus Head*

**10 Ultrasonography of the Head** *255*

*Debra Archer*

**Section 2 Reproduction 267****Section 2a Ultrasonography of the Stallion Reproductive Tract 269**

- 11 Ultrasonography of the Internal Reproductive Tract 271**

*Malgorzata A. Pozor*

- 12 Ultrasonography of the Penis 300**

*Malgorzata A. Pozor*

- 13 Ultrasonography of the Testes 310**

*Charles Love*

**Section 2b Ultrasonography of the Mare Reproductive Tract 321**

- 14 Use of Ultrasonography in the Evaluation of the Non-Pregnant Mare 323**

*Walter Zent*

- 15 Use of Ultrasonography for Evaluation of Mare Reproductive Abnormalities 331**

*Ryan A. Ferris and Kristina G. Lu*

- 16 Transrectal Ultrasonography of Early Equine Gestation – the First 60 Days 347**

*Chelsie A. Burden*

- 17 Use of Early Gestation Ultrasonography in Twin Management 363**

*Richard Holder*

- 18 Use of Ultrasonography in Equine Fetal Sex Determination between 55 and**

**200 days of Gestation 370**

*Richard Holder*

- 19 Use of Ultrasonography in Fetal Development and Monitoring 383**

*Stefania Bucca*

**Section 3 Internal Medicine 407**

- 20 Thoracic Ultrasonography, Non Cardiac 409**

*Peter R. Morresey*

- 21 Ultrasonography of the Heart 421**

*Katharyn J. Mitchell and Colin C. Schwarzwald*

- 22 Ultrasonography of the Liver, Spleen, Kidneys, Bladder, and Peritoneal Cavity 446**

*Nathan Slovis*

- 23 Ultrasonography of the Gastrointestinal Tract 465**

*Rana Bozorgmanesh*

- 24 Equine Ocular Ultrasonography 481**

*Rodolfo Gialletti*

- 25 **Ultrasonography of the Soft Structures of the Neck** 510  
*Massimo Magri*
- 26 **Ultrasonography of Vascular Structures** 540  
*Rana Bozorgmanesh*
- 27 **Umbilical Remnant Preparation and Scanning Technique** 547  
*Massimo Magri*
- 28 **Post Foaling Complications** 558  
*Peter R. Morresey*
- 29 **Neonatology** 573  
*J. Barry David*
- Index** 580