Contents

Contributors, ix
About the Editors, xi
Preface, xiii

Section I: Introduction to Veterinary Transfusion Medicine
1 Evolution of Veterinary Transfusion Medicine and Blood Banking, 3
   Marie K. Holowaychuk and Kenichiro Yagi
2 Component Therapy, 13
   Julie M. Walker

Section II: Blood Products
3 Red Blood Cell Products, 29
   Caroline Kisielewicz
4 Plasma Products, 43
   K. Jane Wardrop and Marjory Brooks
5 Platelet Products, 55
   Mary Beth Callan and Kimberly Marryott
6 Hemoglobin-Based Oxygen Carrier Solutions, 70
   Marie K. Holowaychuk and Thomas K. Day
7 Alternative Plasma Protein Products: Albumin and Human Immunoglobulin Therapy, 83
   Nicole Spurlock
8 Miscellaneous Blood Product Usage, 103
   Marie K. Holowaychuk and Kenichiro Yagi

Section III: Blood Product Administration
9 Canine Recipient Screening, 117
   Lynel J. Tocci
10 Feline Recipient Screening, 129
   Anthony C.G. Abrams-Ogg
11 Transfusion-Associated Complications, 155
   Shauna L. Blois
12 Recipient Monitoring, 172
   Kenichiro Yagi and Marie K. Holowaychuk

Section IV: Blood Banking
13 Canine Donor Selection, 189
   Kenichiro Yagi and Brandee L. Bean
14 Canine Blood Collection, 199
   Kenichiro Yagi
15 Feline Donor Selection, 212
   Charlotte Russo and Karen Humm
16 Feline Blood Collection, 223
   Robyn K. Taylor and Karen Humm
17 Blood Component Processing and Storage, 237
   Cheryl L. Mansell and Manuel Boller

Section V: Meeting Blood Product Demands
18 Blood Product Sources, 259
   Sally Lester
19 Donor Program Management, 271
   Rebecca J. Nusbaum
20 Limiting Allogenic Blood Transfusions, 284
   Marie K. Holowaychuk
21 Alternative Transfusion Methods, 296
   Sophie Adamantos and Caroline Smith

Section VI: Transfusion Medicine in Other Species
22 Equine Transfusion Medicine, 309
   Margaret C. Mudge and Olivia H. Williams
23 Food and Fiber Animal Transfusion Medicine, 321
   Brent C. Credille and Kira L. Epstein
24 Avian Transfusion Medicine, 334
   Stephen Cital, Angela M. Lennox and Andrea Goodnight
25 Small Mammal Transfusion Medicine, 345
   Jody Nugent-Deal and Kristina Palmer
26 Reptile and Amphibian Transfusion Medicine, 358
   Stephen Cital and Andrea Goodnight
27 Primate Transfusion Medicine, 366
   Stephen Cital, Angela Colagross-Schouten and Laura Summers

Index, 377