

Table of Contents

- Contributing Authors p. xi
- Foreword Wilfrido R. Castaneda-Zuniga p. xiii
- Preface p. xv
- 1. Patient Care Hector Ferral p. 1
 - A. Patient Preparation and Informed Consent p. 1
 - B. Laboratory Parameters p. 1
 - C. Intravenous Sedation p. 2
 - D. Antibiotics p. 4
 - E. Anticoagulation p. 6
 - F. Management of Associated Medical Problems p. 8
 - G. Contrast Media p. 9
 - H. Postprocedure Care p. 10
- 2. Radiation Control in Interventional Radiology Richard A. Geise p. 11
- 3. Access Techniques and Hemostasis Leonard R. Bok and Hector Ferral and Haraldur Bjarnason p. 19
 - A. Access Sites p. 19
 - B. Access Techniques and Devices p. 19
 - C. Diagnostic Catheters and Wires p. 23
 - D. Puncture Hemostasis p. 24
 - E. Complications: Diagnosis and Management p. 25
- 4. Vascular Embolotherapy Haraldur Bjarnason p. 27
- 5. Percutaneous Treatment of Liver Tumors Zhong Qian and Yuchen Jia p. 47
- 6. Gastrointestinal Bleeding Osarugue A. Aideyan and Haraldur Bjarnason p. 55
 - A. Diagnostic Approach p. 55
 - B. Embolization and Infusion Therapy p. 57
- 7. Portal Hypertension: Evaluation and Treatment Hector Ferral p. 67
- 8. Percutaneous Transluminal Angioplasty Hector Ferral p. 77
 - A. Basic Concepts p. 77
 - B. Mechanism of Angioplasty p. 78
 - C. Devices and Techniques p. 80
 - D. Indications and Outcome p. 82
- 1. Angioplasty of Supraaortic Vessels Hector Ferral and S. Murthy Tadavarthy p. 82
- 2. Celiac and Superior Mesenteric Artery Angioplasty Hector Ferral and S. Murthy Tadavarthy and Joseph W. Yedlicka, Jr. and Wilfrido R. Castaneda-Zuniga p. 89
- 3. Percutaneous Transluminal Angioplasty of the Renal Arteries Hector Ferral p. 93
- 4. Aorto-Iliac and Peripheral Arterial Angioplasty Hector Ferral and Wilfrido R. Castaneda-Zuniga p. 101
- 9. Problems and Management of Hemodialysis Access Hector Ferral p. 117
- 10. Percutaneous Atherectomy Jae-Kyu Kim and Hector Ferral and Zhong Qian p. 129
- 11. Intravascular Stents Jorge E. Lopera and Zhong Qian and Hector Ferral p. 137
 - A. Overview p. 137
 - B. Arterial Stenting p. 143
 - C. Venous Stents p. 152

- 12. Stent-Graft Techniques G. Michael Werdick and Michael S. Rosenberg and Haraldur Bjarnason p. 157
- A. Use of Stent-Grafts for Aorto-Iliac Aneurysmal Disease G. Michael Werdick p. 157
- B. Stent-Grafts for Peripheral Occlusive Disease Michael S. Rosenberg p. 160
- C. Use of Covered Metal Stents for Transjugular-Intrahepatic Portocaval Shunts Haraldur Bjarnason p. 163
- 13. Diagnostic Techniques p. 167
- A. Noninvasive Vascular Evaluation of Peripheral Vascular Disease Mark Wofford and Thomas R. Beidle p. 167
- B. Evaluation of Deep Venous Thrombosis Mark Wofford and Thomas R. Beidle p. 170
- C. Other Doppler Applications Mark Wofford and Thomas R. Beidle p. 173
- D. Carbon Dioxide Digital Subtraction Angiography James G. Caridi and Irvin F. Hawkins and Bret N. Wiechmann p. 175
- E. Intravascular Ultrasound Wilfrido R. Castaneda-Zuniga p. 179
- 14. Fibrinolytic Therapy Haraldur Bjarnason p. 187
- A. Introduction to the Hemostatic Cascade p. 187
- B. Anticoagulation Agents p. 190
- C. Thrombolytic Agents p. 191
- D. Hypercoagulable State p. 192
- E. Thrombolysis p. 193
- F. Laboratory Monitoring p. 200
- G. Complications p. 201
- 15. Mechanical Thrombectomy Zhong Qian and Hector Ferral and Xiaoping Gu p. 203
- 16. Inferior Vena Cava Filters Steven F. Millward and Randall V. Olsen p. 213
- 17. Central Venous Access Maria Rodrigues Gomes and Gwen K. Nazarian p. 225
- 18. Foreign Body Retrieval Zhong Qian and Hector Ferral p. 237
- 19. Vascular Interventional Procedures in the Pediatric Age Group Hector Ferral p. 251
- 20. Genitourinary Interventions Hector Ferral p. 263
- A. Percutaneous Urologic Techniques p. 263
- B. Special Techniques p. 270
- C. Percutaneous Nephrostomy Access for Stone Removal p. 277
- D. Prostatic Intervention p. 280
- 21. Biliary Tract Intervention Pablo A. Gamboa and Haraldur Bjarnason and Joseph W. Yedlicka, Jr. and S. Murthy Tadavarthy and Janis Gissel Letourneau and Flavio Castaneda and Wilfrido R. Castaneda-Zuniga p. 283
- A. Interventional Techniques in the Hepatobiliary System p. 283
- B. Gallbladder Intervention p. 299
- 22. Gastrointestinal Tract Intervention Hector Ferral and Haraldur Bjarnason p. 305
- A. Percutaneous Gastrostomy and Jejunostomy Haraldur Bjarnason and Jose Llerena and Elias Gorriz and Manuel Maynar and Ricardo Reyes and Juan M. Pulido-Duque and Francisco Mallorquin and Wilfrido R. Castaneda-Zuniga p. 305
- B. Management of Benign Esophageal Strictures Ho-Young Song p. 314
- C. Management of Malignant Esophageal Strictures Ho-Young Song p. 318
- D. Interventional Treatment of Enteric Strictures Haraldur Bjarnason and Gordon K. McLean and Dana R. Burke and Steven G. Meranze p. 322
- E. Colonic Stent Placement Hector Ferral and Michael Wholey p. 325

- F. Percutaneous Cecostomy for Ogilvie's Syndrome: Laboratory Observations and Clinical Experience Haraldur Bjarnason p. 329
- G. Volvulus of the Sigmoid Colon: Treatment by Transrectal Fluoroscopic Catheterization and Stenting Haraldur Bjarnason and Xose C. Prego and Esperanza A. Monton and Xesus E. Cimadevila and Pedro C. Prieto and Ana C. Noya p. 332
- 23. Interventional Therapy of Infertility Zhong Qian and Amy S. Thurmond and Haraldur Bjarnason p. 339
- A. Fallopian Tube Catheterization for Treatment of Female Infertility p. 339
- B. Transcatheter Embolization of the Internal Spermatic Vein for Treatment of Varicocele p. 341
- 24. Lacrimal Duct Intervention Ho-Young Song p. 347
- 25. Interventional Procedures in the Thorax Haraldur Bjarnason and Lisa Diethelm and Jeffrey S. Klein and Haibo Xu p. 359
- A. Biopsies of Thoracic Structures p. 359
- B. Percutaneous Drainage of Pleural Collections and Pneumothorax Timothy V. Myers p. 367
- 26. Percutaneous Biopsy of Abdominal Masses Joseph L. Higgins, Jr. and Janis Gissel Letourneau p. 377
- 27. Drainage of Abdominal Abscesses and Fluid Collections Gregory B. Snyder and George C. Scott and Haraldur Bjarnason and George C. Scott and Janis Gissel Letourneau and Joel M. Berman and Thomas R. Beidle p. 385
- Appendixes
- 1. Angiography: Infusion Rates Haraldur Bjarnason p. 401
- 2. Normal Laboratory Values Darren W. Postoak p. 403
- Subject Index p. 405