

Contents

Section I General Topics 1

- 1 **Four Decades: The History of ERCP** 2
Lee McHenry and Glen Lehman
- 2 **The ERCP Room** 10
Steven A. Edmundowicz
- 3 **Radiologic Issues and Radiation Safety during ERCP** 16
Desiree E. Morgan and Beth Schueler
- 4 **Endoscopes, Guidewires, and Accessories** 32
Sushil K. Ahlawat and Firas H. Al-Kawas
- 5 **Sedation in ERCP** 46
Gregory A. Coté
- 6 **Indications for and Contraindications to ERCP** 51
John Baillie
- 7 **Adverse Events of ERCP: Prediction, Prevention, and Management** 57
Martin L. Freeman
- 8 **ERCP Training** 66
Juergen Hochberger, Juergen Maiss, and Todd H. Baron
- 9 **Preparation for ERCP** 73
John T. Maple
- 10 **Principles of Electrosurgery** 80
Petros Benias and David L. Carr-Locke
- 11 **Quality Issues and Measures in ERCP** 85
Amer A. Alkhatib and Douglas O. Faigel
- 12 **Medicolegal Issues in ERCP** 92
Peter Cotton and James T. Frakes

Section II Techniques 103

- 13 **Cannulation of the Major Papilla** 104
Michael J. Bourke
- 14 **Access (Precut) Papillotomy** 116
Paul Kortan and Gary May
- 15 **Sphincter of Oddi Manometry** 124
Evan L. Fogel
- 16 **Biliary Sphincterotomy** 129
Horst Neuhaus
- 17 **Balloon Dilation of the Native and Postsphincterotomy Papilla** 139
Chan Sup Shim
- 18 **Stone Extraction** 152
Catherine B. Ngo and Joseph W. Leung
- 19 **Pancreatic Sphincterotomy** 166
Jonathan M. Buscaglia and Anthony N. Kalloo
- 20 **Minor Papilla Cannulation and Sphincterotomy** 178
Pier Alberto Testoni and Alberto Mariani

- 21 **Plastic Pancreaticobiliary Stents and Nasopancreaticobiliary Tubes: Concepts and Insertion Techniques** 188
Todd H. Baron
- 22 **Biliary Metal Stent Insertion** 200
Brintha K. Enestvedt and Gregory G. Ginsberg
- 23 **Pancreaticobiliary Stent Removal: Migrated and Nonmigrated** 212
Everson L.A. Artifon, Juan J. Vila, and Jose Pinhata Otoch
- 24 **Papillectomy and Ampullectomy** 222
Shayan Irani and Richard A. Kozarek
- 25 **Pancreatocopy** 234
Tadashi Kodama and Tatsuya Koshitani
- 26 **Cholangioscopy** 243
Peter B. Kelsey, Takao Itoi, and Raj J. Shah
- 27 **ERCP in Children** 254
Victor L. Fox
- 28 **ERCP in Pregnancy** 264
Ara B. Sahakian and Priya A. Jamidar
- 29 **ERCP in Surgically Altered Anatomy** 270
Simon K. Lo
- 30 **Echoendoscopic Ultrasound-Guided Biliary Drainage** 289
Marc Giovannini, Erwan Bories, and Félix Ignacio Téllez Ávila
- 31 **Endoscopic Ultrasound-Assisted Access to the Pancreatic Duct** 294
Larissa L. Fujii and Michael J. Levy

Section III Approach to Clinical Problems 301

- 32 **Pancreas Divisum, Biliary Cysts, and Other Congenital Anomalies** 302
Mark Topazian
- 33 **Approach to the Dilated Bile Duct and Pneumobilia** 313
Pari Shah, Geoffrey Spencer, and Michael L. Kochman
- 34 **The Dilated Pancreatic Duct** 323
Michelle A. Anderson and Anoop Prabhu
- 35 **Ampullary Neoplasia** 330
Paul Fockens and Ian D. Norton
- 36 **Malignant Biliary Obstruction: Distal** 342
Sandeep Krishnan and Douglas Pleskow
- 37 **Malignant Biliary Obstruction of the Hilum and Proximal Bile Ducts** 356
Savreet Sarkaria and Michel Kahaleh
- 38 **Indeterminate Biliary Stricture** 365
Bret T. Petersen

- 39 Combined Biliary and Duodenal Obstruction 378**
Kathryn R. Byrne and Douglas G. Adler
- 40 Benign Biliary Strictures 383**
Guido Costamagna, Ivo Bošković, and Pietro Familiari
- 41 Biliary Surgery Adverse Events Including Liver Transplantation 389**
Claudio Navarrete, Francisca Navarrete, Jaquelina M. Gobelet, Eduardo Valdivieso, and Miguel Muñoz-Navas
- 42 ERCP for Acute and Chronic Adverse Events of Pancreatic Surgery and Pancreatic Trauma 402**
Prabhleen Chahal and Todd H. Baron
- 43 Choledocholithiasis 410**
James Y.W. Lau, Yuk Tong Lee, and Joseph Sung
- 44 Pancreaticobiliary Pain and Suspected Sphincter of Oddi Dysfunction 419**
Paul R. Tarnasky and Robert H. Hawes
- 45 Sclerosing Cholangitis 430**
Jawad Ahmad and Adam Slivka
- 46 Tropical Parasitic Infestations 437**
Nageshwar Reddy, G. Venkat Rao, and Rupa Banerjee
- 47 Recurrent Pyogenic Cholangitis 442**
Dong Wan Seo and Khean-Lee Goh
- 48 Cystic Lesions of the Pancreas 453**
Won Jae Yoon and William R. Brugge
- 49 Unexplained Acute Pancreatitis 460**
Damien Tan and Stuart Sherman
- 50 Biliary Intervention in Acute Gallstone Pancreatitis 474**
Ayaz Matin and David L. Carr-Locke
- 51 Pancreatic Interventions in Acute Pancreatitis: Ascites, Fistulae, Leaks, and Other Disruptions 482**
Andrew Ross and Richard A. Kozarek
- 52 Chronic Pancreatitis: Stones and Strictures 492**
Jacques Devière
- 53 Endoscopic Drainage of Pancreatic Pseudocysts, Abscesses, and Walled-Off (Organized) Necrosis 500**
Todd H. Baron