

Contents

Foreword by <i>David W. Rattner</i>	v
Preface	vii
Contributors	xvii

Part 1 Laparoscopy

I General Principles

1. Equipment Setup and Troubleshooting	5
<i>Mohan C. Airan</i>	
2. Access to Abdomen	16
<i>Nathaniel J. Soper</i>	
3. Abdominal Wall Lift Devices	31
<i>Edmund K.M. Tsoi and Claude H. Organ, Jr.</i>	
4. Generation of Working Space: Extraperitoneal Approaches	40
<i>David M. Brams</i>	
5. Hand-Assisted Laparoscopic Surgery	46
<i>Benjamin E. Schneider</i>	
6. Principles of Laparoscopic Hemostasis	49
<i>Richard M. Newman and L. William Traverso</i>	
7. Principles of Tissue Approximation	60
<i>Zoltan Szabo</i>	
8. Principles of Specimen Removal	72
<i>Daniel J. Deziel</i>	
9. Documentation	78
<i>Daniel J. Deziel</i>	
10.1 Laparoscopy During Pregnancy	84
<i>Myriam J. Curet</i>	
10.2 Previous Abdominal Surgery	90
<i>Norman B. Halpern</i>	

11. Robotics in Laparoscopic and Thoracoscopic Surgery 95
Andreas Kirakopolous and W. Scott Melvin

II Diagnostic Laparoscopy and Biopsy

12. Emergency Laparoscopy 107
Steven C. Stain

13. Elective Diagnostic Laparoscopy and Cancer Staging 114
Frederick L. Greene

III Laparoscopic Cholecystectomy and Common Duct Exploration

14. Laparoscopic Cholecystectomy 131
Karen Deveney

15. Laparoscopic Cholecystectomy: Avoiding Complications 140
Joseph Cullen

16. Laparoscopic Cholecystectomy: Cholangiography 145
George Berci

17. Laparoscopic Cholecystectomy: Ultrasound for Choledocholithiasis 165
Maurice E. Arregui

18. Laparoscopic Common Bile Duct Exploration: Transcystic Duct Approach 175
Joseph B. Petelin

19. Common Bile Duct Exploration via Laparoscopic Choledochotomy 186
Alfred Cuschieri and Chris Kimber

20. Complications of Laparoscopic Cholecystectomy and Laparoscopic Common Duct Exploration 197
Mark A. Talamini, Joseph B. Petelin, and Alfred Cuschieri

IV Hiatal Hernia and Heller Myotomy

21. Laparoscopic Treatment of Gastroesophageal Reflux Disease and Hiatal Hernia 207
Jeffrey H. Peters

22. Laparoscopic Paraesophageal Hernia Repair 225
Ketan M. Desai and Nathaniel J. Soper

23.1 Laparoscopic Cardiomyotomy (Heller Myotomy) 238
Margret Oddsdóttir

23.2 Operations for Esophageal Diverticula 246
D. Mario del Pino and Hiran Fernando

V Laparoscopic Gastric Surgery

24. Laparoscopic Gastrostomy 257
John D. Mellinger and Thomas R. Gadacz

25. Laparoscopic Plication of Perforated Ulcer 263
John D. Mellinger and Thomas R. Gadacz

26. Gastric Resections 267
Alfred Cuschieri

27.1 Laparoscopic Bariatric Surgery: Principles of
 Patient Selection and Choice of Operation 282
*Daniel R. Cottam, Giselle G. Hamad,
 and Philip R. Schauer*

27.2 Instrumentation, Room Setup, and Adjuncts for
 Laparoscopy in the Morbidly Obese 288
Nihn T. Nguyen

27.3 Laparoscopic Gastric Banding 293
Todd A. Kellogg and Sayeed Ikramuddin

27.4 Roux-en-Y Gastric Bypass 303
*Daniel R. Cottam, Giselle G. Hamad,
 and Philip R. Schauer*

27.5 Other Laparoscopic Procedures for Obesity 312
Emma Patterson

27.6 Complications of Laparoscopic Bariatric Surgery 319
*Adolfo Z. Fernandez, Jr., David S. Tichansky,
 and Eric J. DeMaria*

**VI Laparoscopic Procedures on the Small Intestine,
 Appendix, and Colon**

28. Small Bowel Resection, Enterolysis,
 and Enteroenterostomy 329
Bruce David Schirmer

29. Placement of Jejunostomy Tube 342
Bruce David Schirmer

30. Laparoscopic Appendectomy 350
Keith N. Apelgren

31. Laparoscopic Colostomy 357
Anne T. Mancino

32. Laparoscopic Segmental Colectomies, Anterior
Resection, and Abdominoperineal Resection 362
Eric G. Weiss, Steven D. Wexner, and Mirza K. Baig

33. Laparoscopic-Assisted Proctocolectomy with
Ileal-Pouch-Anal Anastomosis 377
Amanda Metcalf

34. Laparoscopy in Inflammatory Bowel Disease 385
Carol E.H. Scott-Conner

**VII Laparoscopic Approaches to the Pancreas, Spleen,
and Retroperitoneum**

35. Distal Pancreatectomy 393
Barry Salky

36. Laparoscopic Cholecystojejunostomy
and Gastrojejunostomy 400
Carol E.H. Scott-Conner

37. Laparoscopic Splenectomy 411
Robert V. Rege

38. Lymph Node Biopsy, Dissection, and
Staging Laparoscopy 421
Lee L. Swanstrom

39.1 Laparoscopic Live Donor Nephrectomy 437
Aloke K. Mandal and Michael J. Conlin

39.2 Laparoscopic Adrenalectomy 452
Ahmad Assalia and Michel Gagner

VIII Hernia Repair

40. Laparoscopic Inguinal Hernia Repair:
Transabdominal Preperitoneal (TAPP) and Totally
Extraperitoneal (TEP) 467
Muhammed Ashraf Memon and Robert J. Fitzgibbons, Jr.

41.	Laparoscopic Repair of Ventral Hernia	482
	<i>Gerald M. Larson</i>	

IX Pediatric Laparoscopy

42.	Pediatric Minimally Invasive Surgery: General Considerations	491
	<i>John J. Meehan</i>	
43.	Pediatric Laparoscopy: Specific Surgical Procedures	495
	<i>John J. Meehan</i>	
44.	Complications	510
	<i>John J. Meehan</i>	
45.	Pediatric Thoracoscopy	516
	<i>John J. Meehan</i>	
46.	Pediatric Robotic Surgery	521
	<i>John J. Meehan</i>	

Part 2 Flexible Endoscopy

I General Principles

47.	Flexible Endoscopes: Characteristics, Troubleshooting, and Equipment Care	529
	<i>Bipan Chand, Jeffrey L. Ponsky, and Carol E.H. Scott-Conner</i>	
48.	Endoscope Handling	536
	<i>Bipan Chand and Jeffrey L. Ponsky</i>	
49.	Monitoring, Sedation, and Recovery	541
	<i>Bipan Chand and Jeffrey L. Ponsky</i>	

II Upper Gastrointestinal Endoscopy

50.	Diagnostic Upper Gastrointestinal Endoscopy	547
	<i>John D. Mellinger</i>	
51.	Upper Gastrointestinal Endoscopy After Bariatric Surgery	562
	<i>Bruce David Schirmer</i>	

52.	Therapeutic Upper Gastrointestinal Endoscopy	577
	<i>James P. Dolan and John G. Hunter</i>	
53.	Variceal Banding	583
	<i>Gregory Van Stiegmann</i>	
54.	Sclerotherapy of Variceal Bleeding	587
	<i>Choichi Sugawa</i>	
55.	Control of Nonvariceal Upper Gastrointestinal Bleeding	593
	<i>Choichi Sugawa</i>	
56.	Endoluminal Approaches to Gastroesophageal Reflux Disease	602
	<i>John D. Mellinger and Bruce V. MacFadyen, Jr.</i>	
57.	Percutaneous Endoscopic Feeding Tube Placement	608
	<i>Bipan Chand, Carol E.H. Scott-Conner, and Jeffrey L. Ponsky</i>	
58.	Complications of Upper Gastrointestinal Endoscopy	617
	<i>Brian J. Dunkin</i>	
III Small Bowel Enteroscopy		
59.	Small Bowel Enteroscopy	631
	<i>Charles H. Andrus and Scott H. Miller</i>	
60.	Capsule Endoscopy	640
	<i>John D. Mellinger, Bruce V. MacFadyen, Jr., and Gina L. Adrales</i>	
IV Endoscopic Retrograde Cholangiopancreatography		
61.	Endoscopic Retrograde Cholangiopancreatography	645
	<i>Harry S. Hinal</i>	
62.	Surgically Altered Anatomy and Special Considerations	656
	<i>Maurice E. Arregui</i>	
63.	Cannulation and Cholangiopancreatography	662
	<i>David Duppler</i>	

64.	Therapeutic Endoscopic Retrograde Cholangiopancreatography	669
	<i>Gary C. Vitale, Stan C. Hewlett, and Carlos M. Zavaleta</i>	
65.	Complications of Endoscopic Retrograde Cholangiopancreatography	685
	<i>Morris Washington and Ali Ghazi</i>	
V	Choledochotomy	
66.	Diagnostic Choledochoscopy	693
	<i>Bruce V. MacFadyen, Jr.</i>	
67.	Therapeutic Choledochoscopy and Its Complications	699
	<i>Raymond P. Onders and Thomas A. Stellato</i>	
VI	Flexible Sigmoidoscopy	
68.	Flexible Sigmoidoscopy	707
	<i>John A. Collier</i>	
69.	Therapeutic Flexible Sigmoidoscopy	714
	<i>Irwin B. Simon</i>	
VII	Colonoscopy	
70.	Diagnostic Colonoscopy	723
	<i>Bassem Y. Safadi and Jeffrey M. Marks</i>	
71.	Therapeutic Colonoscopy and Its Complications	735
	<i>C. Daniel Smith, Aaron S. Fink, Gregory Van Stiegmann, and David W. Easter</i>	
VIII	Pediatric Endoscopy	
72.	Pediatric Gastrointestinal Endoscopy	747
	<i>Thom E. Lobe</i>	

Part 3 Thoracoscopy for the Gastrointestinal Surgeon

73.	Video-Assisted Thoracic Surgery: Basic Concepts	757
	<i>Rodney J. Landreneau, Ricardo Santos, and Jason Lamb</i>	
74.	Exploratory Thoracoscopy for Staging of Malignancies	765
	<i>Alberto de Hoyos and Peter F. Ferson</i>	
75.	Minimally Invasive Esophagectomy	771
	<i>D. Mario del Pino, Alberto de Hoyos, and James D. Luketich</i>	
76.	Thoracodorsal Sympathectomy and Splanchnicectomy	787
	<i>Rodney J. Landreneau, Ricardo Santos, and Christopher Baird</i>	
77.	VATS Management of the Indeterminate Pulmonary Nodule	793
	<i>Jason Lamb, Gintas Antanavicius, and Rodney J. Landreneau</i>	
78.	Pleural Disease	800
	<i>Alberto de Hoyos and Peter F. Ferson</i>	
	Appendix: SAGES Publications	805
	Index	807