



Dr. Atul J Shah
Hernia &
Bariatric Clinic

What is Minimally invasive bariatric surgery?



Minimally Invasive Bariatric Surgery

Marcello Lucchese, Nicola Scopinaro



Minimally Invasive Bariatric Surgery:

Minimally Invasive Bariatric Surgery Phillip R. Schauer, Bruce D. Schirmer, Stacy Brethauer, 2008-09-11 PREFACE Over the last decade bariatric surgeons have witnessed more dramatic advances in the field of bariatric surgery than in the previous 50 years of this relatively young discipline. These changes have certainly been fueled by the great obesity epidemic beginning in the 1970s which created the demand for effective treatment of severe obesity and its co-morbidities. The gradual development and standardization of safer, more effective and durable operations such as Roux-en-Y gastric bypass, RYGB, biliopancreatic diversion, duodenal switch, and adjustable gastric banding account for the first wave of advances over the last decade. More recently, the advent of minimally invasive surgery in the mid 1990s accounts for the second wave of major advances. Fifteen years ago, fewer than 15,000 bariatric procedures, mostly vertical banded gastroplasty, were performed each year in the U.S. and all were performed with a laparotomy requiring nearly a week of hospitalization and 6 weeks of convalescence. Mortality rates exceeding 2 percent and major morbidity exceeding 25% was the norm. It later became apparent that the laparotomy itself accounted for much of the morbidity of bariatric surgery, contributing to major impairment in postoperative cardiopulmonary function, leading to atelectasis, pneumonia, respiratory failure, heart failure, and lengthy stays in the intensive care unit for a significant subset of patients. Furthermore, wound complications, including infections, seromas, hernias, and dehiscences, were the norm rather than the exception. Hernias were so common, 20-25% that they were often considered the second stage of a bariatric procedure. Today, over 200,000 bariatric procedures are performed each year in the U.S. and nearly twice that figure worldwide. Nearly all gastric banding procedures, an estimated 75% of RYGB procedures, and even some BPD procedures are performed laparoscopically, indicating that the laparoscopic approach has been widely adopted in bariatric surgery. The dramatic reduction in postoperative pain, hospital stay to 1-3 days, recovery to 2-3 weeks, incidence of intensive care utilization to 5%, along with a great reduction in cardiopulmonary complications and wound complications, can be attributed to the laparoscopic approach. Operative mortality of less than 1% is now common and perhaps also attributable to laparoscopic surgery. Indeed, bariatric surgery has become safer and more desirable because of laparoscopic surgery. This textbook, *Minimally Invasive Bariatric Surgery*, is intended to provide the reader with a comprehensive overview of the current status of bariatric surgery, emphasizing the now dominant role of laparoscopic techniques. It is our intention to address issues of interest to not only seasoned and novice bariatric surgeons but all health care providers who participate in the care of the bariatric patient. Specifically, we expect surgical residents, fellows, allied health, and bariatric physicians to benefit from this book. At the onset of this book, we invited contributing authors who we considered the most authoritative, coming up with a Who's Who list of bariatric surgeons. The reader will note among the authors a high degree of clinical expertise, international diversity, as well as diversity of thought. We have even included a chapter on the role of open bariatric surgery to balance the enthusiasm of the editors for minimally invasive surgery.

Furthermore we re thankful for our good fortune in recruiting authors who have been on the forefront in developing and teaching specific procedures Although not intended to be an atlas of bariatric surgery this text does provide detailed illustrations and descriptions of all the common procedures with technical pearls from the surgeons who introduced them to the world The benefits of laparoscopic surgery however must be balanced with the significant training challenges posed by laparoscopic bariatric surgery Special emphasis on learning curves and training requirements are found through out this text A chapter on training and credentialing is included to update the reader on current guidelines To further enlighten the reader we also have included chapters on special issues and controversial subjects including laparoscopic instruments and visualization bariatric equipment for the ward and clinic medical treatment of obesity hand assisted surgery hernia management diabetes surgery perioperative care pregnancy and gynecologic issues and plastic surgery after weight loss Chapter 24 Risk Benefit Analysis of Laparoscopic Bariatric Procedures is particularly useful in that it compares head to head the risks and benefits of all the major operations Finally we do incorporate chapters that focus on new and futuristic operations such as sleeve gastrectomy gastric pacing and endoluminal natural orifice surgery perhaps the next wave of minimally invasive surgery In the wake of the laparoscopic revolution of the 1990 s minimally invasive approaches to nearly every abdominal procedure and many thoracic procedures have been devised however in reality only a few common procedures are now performed with a laparoscopic approach as the standard ie 50% Laparoscopic cholecystectomy Nissen fundoplication and bariatric procedures represent the major triumphs thus far of the laparoscopic revolution Perhaps bariatric operations represent the best application of minimally invasive procedures because avoidance of an extensive laparotomy in the high risk bariatric population provides the greatest relative benefit We hope that you encounter as much enjoyment reading Minimally Invasive Bariatric Surgery as we have had writing it Now on to the next revolution in bariatric surgery Phil Schauer MD Bruce Schirmer MD Stacy Brethauer MD Minimally Invasive Bariatric and Metabolic Surgery Marcello Lucchese,Nicola Scopinaro,2015-07-10 This book explains the concept of metabolic surgery and provides step by step descriptions of all the principal minimally invasive surgical techniques employed to treat morbid obesity The approach adopted is very practical For each procedure indications technical aspects clinical management and outcomes are described and helpful tips and tricks highlighted Guidance is provided on the management of emergencies and potential complications as well as on general postoperative management and long term follow up The coverage also includes new frontiers of robotic and endoscopic surgery While the focus is on surgical techniques emphasis is placed on the need for a multidisciplinary approach with explanation of the role of the multidisciplinary team and the bariatric center In addition important information is presented on the definition of morbid and severe obesity incidence prevalence pathophysiology and obesity related comorbidities The authors are internationally acknowledged experts who present best practice know how in the field and draw on the most recent research literature **Obesity Surgery: Principles and Practice** Cid Pitombo,Kenneth

Jones, Kelvin Higa, Jose Carlos Pareja, 2007-11-27 A complete full color overview of obesity surgery written by the field's foremost experts *Obesity Surgery Principles and Practice* brings together the top minds in the discipline who collectively deliver a benchmark reference that will prove indispensable for general and bariatric surgeons and residents Page after page the book's esteemed editors take you step by step through the very latest most advanced surgical techniques and clinical protocols Using full color throughout this logically organized guide begins with an insightful look at the general principles of obesity surgery one that provides a vital theoretical framework for subsequent chapters The next sections of the book offer an in depth review of surgical procedures and postoperative management that no other text can match Features Unequaled coverage that delivers an up to date comprehensive survey of today's obesity surgery practice Valuable skill building insights that reflect the expertise of an international pool of editors and authors in the field of bariatric surgery Focus on topics not covered in other books including Surgery in Adolescents Cost Analysis of Laparoscopic versus Open Surgery and Surgery in the Super Obese Full color art program to clarify surgical protocols

Metabolism and Pathophysiology of Bariatric Surgery Victor R Preedy, Rajkumar Rajendram, Colin R Martin, 2016-11-26 Pathophysiology of Bariatric Surgery Metabolism Nutrition Procedures Outcomes and Adverse Effects uses a metabolic and nutritional theme to explain the complex interrelationships between obesity and metabolic profiles before and after bariatric surgery The book is sectioned into seven distinct areas Features of Obesity Surgical Procedures Nutritional Aspects Metabolic Aspects Diabetes Insulin Resistance and Glucose Control Cardiovascular and Physiological Effects and Psychological and Behavioral Effects Included is coverage on the various types of bariatric surgery including Roux en Y gastric bypass gastric banding sleeve gastrectomy biliopancreatic diversion and jejunioileal bypass as well as the variations upon these procedures Provides information on diet nutrition surgical procedures outcomes and side effects in relation to bariatric surgery in one comprehensive text Contains a Dictionary of Terms Key Facts and Summary Points in each chapter Includes access to a companion website with accompanying videos

Operative Pediatric Surgery 6Ed Lewis Spitz, Mark Davenport, Arnold Coran, 2006-11-24 The sixth edition of this acclaimed operative atlas continues to provide a unique level of comprehensive detail on the full range of conditions presented in childhood including the fetus and neonate that can be treated by surgical means All chapters have been thoroughly revised and updated throughout with new line diagrams where necessary Also

Operative Pediatric Surgery, Seventh Edition Lewis Spitz, Arnold Coran, 2013-05-21 Highly Commended BMA Medical Book Awards 2014 The seventh edition of the acclaimed text *Operative Pediatric Surgery* continues to provide a unique level of comprehensive detail on the full range of surgically treatable conditions presented in neonate and childhood as well as in utero With an international list of authors the chapters have been updated and complemented by the high quality artwork that has established this operative guide as the standard reference for the pediatric surgeon This new edition retains the successful format of previous editions It first highlights the initial principles and justification for the procedure Next the book outlines

preoperative investigations and preparation This is followed by the operative procedure itself and postoperative management New chapters have been added to this edition that cover the latest techniques such as minimal invasive surgery robotic surgery and single orifice laparoscopic surgery The chapters are arranged in eight sections with each section emphasizing the overall management of patients Tricks of the trade of individual authors are included as well as discussions of technical and clinical judgment The new and updated edition of Operative Pediatric Surgery remains the pre eminent operative guide to a full range of pediatric conditions Morbid Obesity Adrian Alvarez,2010-03-11 Patients with extreme obesity undergoing surgical procedures need specific perioperative management This new edition gives clear guidance on clinical management **Index Medicus** ,2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings Principles and Practice of Surgical Oncology Howard Silberman,Allan W. Silberman,2012-03-28 Principles and Practice of Surgical Oncology uniquely emphasizes a multidisciplinary integrated approach to the treatment of solid tumors It presents treatment strategies that combine surgery with preoperative or postoperative adjunctive chemotherapy hormonal therapy and or radiation therapy to achieve optimal outcome The book features contributions from surgeons basic scientists pathologists radiologists radiation therapists and medical oncologists and offers a comprehensive presentation of genetics molecular biology pathogenesis and multimodal therapeutic approaches A unique feature of the book is a commentary following each chapter which describes alternative approaches and discusses controversial areas of current therapy A companion Website will offer the fully searchable text with images **Minimally Invasive Bariatric Surgery (2007).** , **New Insights in Diagnosing and Treatment of Glucose Disorders and Obesity in Children and Adolescents** Enza Mozzillo,Marco Marigliano,Klemen Dovc,Giulio Maltoni,Valentina Chiavaroli,2022-01-11 *Advances in Abdominal Wall Reconstruction* Albert Losken,Jeffrey E. Janis,2012-07-22 This practical go to reference by Drs Losken and Janis will provide you with the tools you need when addressing a host of abdominal wall problems ranging from simple to complex hernia repair and abdominal wall reconstruction It provides information on the latest developments in mesh and biologic materials and their applications for abdominal hernia repair as well as step by step surgical technique for ensuring successful outcomes in all types of abdominal wall reconstruction Advances in Abdominal Wall Reconstruction presents the range of current options available for surgical repair in a systematic fashion Treatment options and algorithms provide readers with insights into choices for approaching different problems Strategies for minimizing morbidity and for avoiding recurrences are also discussed in detail as are helpful tips and tricks and safe and reliable options for dealing with complex problems New techniques are described along with the evidence based data on outcomes and numerous case examples to reinforce important concepts Potential problems and pitfalls are thoroughly covered to help surgeons avoid potential complications Although the main focus of this book is on surgical technique it also discusses basic principles etiology of abdominal defects organizations strategies and outcomes A DVD with 3 operative videos complements the book The editors have put together

an imminently helpful work which should prove invaluable for a broad range of surgical specialties They are assisted by a multi disciplinary group of leading experts and pioneers in surgery and plastic surgery The book is divided into three parts The first part focuses on fundamentals with essential chapters devoted to abdominal wall anatomy hernia defect classification abdominal wound care and synthetic meshes and tissue biologics for abdominal wall reconstruction Parts II and III are devoted to various types of abdominal wall reconstruction as well as simple and complex hernia repair using synthetic meshes and biologics Chapters within these sections are clinical and technique oriented with ample illustrations and photos depicting the different surgical approaches A key chapter in this section focuses on Anatomic Components Separation Applications and Advances in Technique This simple reliable technique is one of the most exciting recent advances in abdominal wall reconstruction Another hot topic covered in depth in several comprehensive chapters is that of biologics in complex abdominal wall repair these materials have revolutionized abdominal wall reconstruction Critical chapters are included on the science behind biologics as well as specific techniques for using them Other cutting edge topics include laparoscopic hernia repair and management of parastomal hernias enterocutaneous fistulas postoperative abdominal bulges a common challenging problem and recurrent ventral abdominal hernias to name a few An exciting chapter on abdominal wall transplantation gives readers insight into promising new developments and what lies on the horizon in abdominal wall reconstruction

Hot Topics Biologics in Abdominal Wall Reconstruction Basic Science and Technical Considerations Synthetic Mesh in Abdominal Wall Reconstruction Separation of Anatomic Components Method of Abdominal Wall Reconstruction Application and Advances in Technique Minimally Invasive Ventral Hernia Repair Management of Postoperative Abdominal Bulges The Retro Rectus Technique for Mesh Placement

Annual Report Ohio State University. College of Medicine. Department of Surgery, 2006

Alexander's Care of the Patient in Surgery Edythe Louise Alexander, Jane C. Rothrock, Donna R. McEwen, 2007 Extensively updated to reflect new concepts in perioperative nursing practice and increased sophistication and complexity of surgical procedures

Maingot's Abdominal Operations, 12th Edition Michael Zinner, Jr Stanley Ashley, 2012-11-12

THE DEFINITIVE ILLUSTRATED GUIDE TO ABDOMINAL OPERATIONS FOR GENERAL COLORECTAL AND GASTROINTESTINAL SURGEONS NOW IN FULL COLOR With each edition Maingot's Abdominal Operations has built a legacy of expertise currency and clinical rigor acclaimed by surgical trainees and practicing surgeons Presented in full color for the first time the 63 streamlined chapters of the twelfth edition offer a concise yet complete survey of the diagnosis and management of benign and malignant digestive diseases This authoritative resource has everything you need to understand congenital acquired and neoplastic disorders and optimize surgical outcomes for any type of abdominal procedure

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Video Atlas of Advanced Minimally Invasive Surgery E-Book Constantine T. Frantzides, Mark A. Carlson, 2012-10-22 Video Atlas of Advanced Minimally Invasive Surgery brings you the detailed visual guidance and unmatched expertise you need to master the most important and cutting edge minimally invasive procedures and the treatment of unusual cases Full color photographs and narrated procedural videos online and on DVD lead you step by step through today s most effective techniques Tips and secrets from a veritable who s who in the field equip you to deliver optimal results while minimizing or avoiding complications Hone and expand your surgical skills by watching videos of Dr Frantzides and other leading international experts performing advanced techniques Visualize how to proceed by reviewing beautifully illustrated full color anatomic artwork which provides well rendered representations of underlying structures anatomy and pathology Prevent and plan for complications prior to a procedure thanks to a step by step approach to each procedure complete with personal techniques and secrets from leading experts Glean all essential up to date need to know information about minimally invasive techniques and closed procedures including laparoscopic Whipple procedure revision for failed bariatric procedures and avoiding and managing complications of single port procedures Take it with you anywhere Access the full text video clips and more online at expertconsult com

Atlas of Minimally Invasive Techniques in Upper Gastrointestinal Surgery M. Asunción Acosta, Miguel A. Cuesta, Marcos Bruna, 2021-03-03 This Atlas comprehensively covers minimally invasive operative techniques for benign and malignant cancer surgery of the esophagus and stomach It provides easy to follow instructions accompanied by a range of pictures and illustrations as well as a collection of interactive videos to aid the reader in developing a deeper understanding of each surgical procedure Techniques covered include minimally invasive surgical treatment for esophageal and gastric cancer including different approaches such as thoracoscopic transhiatal laparoscopic and robot assisted resections These chapters include different types of cervical and intrathoracic anastomoses after esophageal resections and different anastomoses and reconstructions after gastrectomy Moreover the Atlas includes an extensive description of minimally invasive procedures in bariatric surgery including sleeve resection gastric bypass biliopancreatic diversion and others Minimally invasive approaches for other benign pathologies such as benign tumors and treatment of gastroduodenal ulcer complications are also depicted All chapters written by a renowned and experienced international group of surgeons and their teams are focused on practical step by step description of the techniques Atlas of Minimally Invasive Techniques in Upper Gastrointestinal Surgery systematically describes the most frequently performed surgical procedures of the esophagus and stomach and is a valuable resource for all practicing surgeons and trainee general surgeons dedicated to upper gastrointestinal surgery such as bariatric and surgical oncologists

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Operations, 12th Edition Michael J. Zinner, Stanley W. Ashley, 2012-08-22 THE DEFINITIVE ILLUSTRATED GUIDE TO ABDOMINAL OPERATIONS FOR GENERAL COLORECTAL AND GASTROINTESTINAL SURGEONS NOW IN FULL COLOR With each edition Maingot's Abdominal Operations has built a legacy of expertise currency and clinical rigor acclaimed by surgical trainees and practicing surgeons Presented in full color for the first time the 63 streamlined chapters of the twelfth edition offer a concise yet complete survey of the diagnosis and management of benign and malignant digestive diseases This authoritative resource has everything you need to understand congenital acquired and neoplastic disorders and optimize surgical outcomes for any type of abdominal procedure FEATURES Contemporary focus on operative procedures and new concepts in the diagnosis and management of abdominal disease Convenient organ procedure presentation provides a seamless review of surgical protocols as well as pre and postoperative strategies and techniques Thirteen new Perspective chapters feature expert commentary and alternative viewpoints on the most clinically relevant topics Added chapters on gastrointestinal bleeding abdominal trauma and abdominal vascular emergencies along with minimally invasive surgery chapters woven throughout the text present current ready to use insights designed to enhance surgical care and recovery More than 1 250 illustrations most in full color *The Ladies' Home Journal* Edward William Bok, 2006-07 **Recent Advances in Minimal Access Surgery - 2** Subhash Khanna, 2020-04-30 Minimal access surgery is completed with one or more small incisions instead of a large incision The surgeon passes a telescope with a video camera through a small incision into a body cavity The surgeon then views the surgery on a TV monitor Minimally invasive surgery offers patients several benefits such as smaller incisions faster recovery times reduced pain and scarring In many cases minimally invasive surgery also offers a higher accuracy rate compared to traditional open surgery Part of the Recent Advances series this volume is a comprehensive guide to the latest advances in minimal access surgery Divided into 18 sections the book covers minimal access surgery for many conditions predominantly different types of cancer such as rectal carcinoma biliary cancer neuroendocrine tumours cancer of the oesophagus and gastric cancer Other topics include rectal prolapse gastric bypass super obesity and weight loss surgery and novel diagnostics for small bowel disease The highly illustrated text features more than 160 clinical photographs and figures to assist learning Key points Second volume in Recent Advances in Minimal Access Surgery series Covers surgical procedures for a multitude of cancers and other disorders Highly illustrated with more than 160 clinical photographs and figures Volume 1 9789352709830 published in 2019

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