



A roux-en-Y gastric bypass is both a restrictive and a malabsorptive procedure. First the stomach is divided, creating a very small gastric pouch. This limits the amount of food that can be eaten. The rest of the stomach is left in the abdomen and attached to the first part of the intestine. Then a new connection is made between the small stomach pouch and the intestine. This allows food to bypass part of the intestine and therefore limit the absorption of food by the body.

Advantages

- 60% excess body weight loss
- Decreases the amount of food that can be eaten
- Resolution of obesity related illness
- Good result for maintenance of weight loss
- No foreign bodies inserted into abdomen
- Can treat obesity associated reflux
- Can be done in patients with gastroparesis

Disadvantages

- Vitamin deficiencies
- Non-reversible
- Life-long compliance is necessary
- Potential for obstruction of the intestines
- Potential for internal hernia of the intestines

Risks

- Bleeding
- Infection
- Damage to surrounding structures
- Need for further surgery
- Conversion to an open procedure
- Heart and lung complications
- Blood clots
- Leak
- Malnutrition
- Internal hernia
- Pain
- Dumping syndrome

Minimally Invasive Bariatric Surgery

**Victor R Preedy,Rajkumar
Rajendram,Colin R Martin**



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 Surgery Stacy A. Brethauer, Philip R. Schauer, Bruce D. Schirmer, 2015-03-03 The second edition of Minimally Invasive Bariatric Surgery provides a comprehensive state of the art review of this field and it serves as a valuable resource for clinicians surgeons and researchers with an interest in minimally invasive bariatric surgery Additionally the second edition includes new features that will benefit the resident fellow or bariatric surgeon new to the field Specifically each evidence based chapter i e outcomes complications epidemiology etc concludes with three or four exam questions that emphasize the salient points of the chapter and provide fellowship programs a valuable training tool and resource for their academic curriculum These questions are either single answer multiple choice or true false format and the correct response with a brief explanation follows As more emphasis is placed on completing a comprehensive curriculum and obtaining certification for bariatric training this aspect of the book is unique and provides added value to the text The new edition also incorporates many new or updated medical illustrations to enhance the technique chapters and provide more uniformity for the artwork throughout the

book Each of the major procedures include surgical technique outcomes and management of complications in separate chapters to provide an easy reference for the busy clinician preparing for a case or presentation Another unique feature of the text is a link to video files hosted online for the relevant chapters This video library will be of great value to the user As the number of fellowships in laparoscopic bariatric surgery continues to increase this updated text will provide a valuable resource for general and bariatric surgeons laparoscopic surgeons fellows residents medical students obesity researchers and industry representatives involved in this field

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

The ASMBS Textbook of Bariatric Surgery Ninh T. Nguyen,Stacy A. Brethauer,John M. Morton,Jaime Ponce,Raul J. Rosenthal,2019-10-16 The fully updated 2nd edition of this textbook continues to serve as a comprehensive guide for information dealing with the ever evolving field of bariatric surgery The chapters are written by experts in the field and include the most up to date information including new sections on quality in bariatric surgery endoscopic surgery and management of bariatric complications This new edition continues to cover the basic considerations for bariatric surgery the currently accepted procedures outcomes of bariatric surgery including long term weight loss improvement and resolution of comorbidities and improvement in quality of life Other special emphasis is given to the topics of metabolic surgery and surgery for patients with lower BMI In addition new endoscopic bariatric procedures including the gastric balloons endoscopic revisional procedures and newer pharmacotherapy for obesity are reviewed The ASMBS Textbook of Bariatric Surgery Second Edition will continue to be a leading source of scientific information for surgeons physicians residents students and integrated health members today and for years to come

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

Buchwald's Atlas of Metabolic & Bariatric Surgical Techniques and Procedures Henry Buchwald,2012

Buchwald s Atlas of Metabolic Bariatric Surgical Techniques and Procedures by leading authority Henry Buchwald MD PhD is the first pictorial atlas that demonstrates today s full range of open and laparoscopic bariatric procedures as well as concurrent surgeries such as hernia repair and tubal ligation Hundreds of high quality photographs and illustrations show you how to achieve the best outcomes and manage any complications that may arise You ll find coverage of such hot new approaches as laparoscopic electrode placement alternative open electrode placement laparoscopic vagal pacing and alternative open vagal pacing At www.expertconsult.com you can reference the complete text and illustrations from any computer or mobile device See how to perform today s full range of open and laparoscopic techniques as well as concurrent surgeries such as hernia repair and tubal ligation by viewing hundreds of step by step photographs and illustrations Master hot new procedures such as laparoscopic electrode placement alternative open electrode placement laparoscopic vagal pacing and alternative open vagal pacing Obtain the best results and avoid complications with expert tips and recommendations from Dr Henry Buchwald who has chaired or presided over the Surgical Council of the American College of Nutrition the Central Surgical Association the American Society for Bariatric Surgery and other leading organizations Reference the complete text and illustrations from any computer or mobile device at www.expertconsult.com

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 jejunoileal 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 *Bariatric and Metabolic Surgery, An Issue of Surgical Clinics* Shanu Kothari, 2011-12-28 A comprehensive review of bariatric and metabolic surgery for the general surgery Topics include The obesity epidemic economic impact and diabetes epidemic economic impact physiology of obesity diabetes physiology of weight loss surgery history of bariatric surgery laparoscopic adjustable gastric banding sleeve gastrectomy biliopancreatic diversion duodenal switch laparoscopic gastric bypass complications of laparoscopic adjustable gastric banding complications of laparoscopic gastric bypass outcomes comparative effectiveness studies co morbidity reduction data economic impact of bariatric surgery adolescent bariatric surgery revisional bariatric surgery the future of bariatric surgery and more **Master Techniques in Surgery: Hernia** Daniel B. Jones, 2012-07-12 Master Techniques in Surgery Hernia is a volume in a new series that presents common and advanced procedures in the major subspecialties of general surgery The series is overseen by Josef E Fischer MD editor of the classic two volume reference Mastery of Surgery Master Techniques in Surgery Hernia is written by acknowledged master surgeons emphasizes surgical procedures and is lavishly illustrated with original full color drawings The contributors fully explain their preferred techniques in step by step thoroughly illustrated detail assess indications and contraindications offer guidelines on preoperative planning and discuss outcomes complications and follow up This volume covers open and laparoscopic hernia repairs including open and laparoscopic ventral hernia repairs Many other topics are covered including sports hernia diaphragmatic hernia spigelian hernia and hernia in infants A companion website will offer the fully searchable text and select procedural videos **The SAGES Manual of Quality, Outcomes and Patient Safety** David S. Tichansky, MD, FACS, John Morton, Daniel B. Jones, 2011-12-21 SAGES represents a worldwide community of surgeons that can bring minimal access surgery endoscopy and emerging techniques to patients in every country Building a Clinical Practice Tracy S. Wang, Adam W. Beck, 2020-01-01 This book provides an overview of the unique aspects related to a university based clinical practice The development of relationships with senior colleagues and referring providers building multidisciplinary programs within an academic institution financing of academic medicine and issues specific to the speciality are discussed Building a Clinical Practice aims to highlight the importance of developing a successful clinical practice in an academic setting and to help guide readers through the challenges associated with that process This book is relevant to senior surgical trainees and young surgical faculty who are facing the challenges associated with developing a clinical practice **Operative Pediatric Surgery** Mark Davenport, James Geiger, 2020-12-30 The eighth 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 Written by expert international authors all chapters cover both minimal access and open surgery with operative techniques illustrated by both high quality colour line artwork operative photographs and a library of video clips Encompassing the full range of pediatric surgery operations that both trainee and experienced pediatric

surgeons require this established operative guide is the standard reference for the pediatric surgeon and will ensure that they can access the most up to date and authoritative information to benefit their clinical practice ensures authoritative coverage of all aspects of pediatric surgery includes the latest operative techniques reviews alternative surgical approaches aids visualisation by the inclusion of over 1000 illustrations establishes total confidence Emerging Bariatric Surgical Procedures, An Issue of Surgical Clinics Shanu Kothari,2021-03-23 This issue of Surgical Clinics focuses on Emerging Bariatric Surgical Procedures and is edited by Dr Shanu N Kothari Articles will include Emerging Procedures in Bariatric Metabolic Surgery Emerging Endoscopic Interventions in Bariatric Surgery Endoscopic Balloon Therapy Single Anastomosis Duodenoileostomy SADI Established and Emerging Metabolic and Bariatric Procedures Obesity Cancer and Risk Reduction with Bariatric Surgery Obesity Bariatric Surgery and Hip Knee Arthroplasty Outcomes Diabetes Risk Reduction and Metabolic Surgery Cardiovascular Risk Reduction Following Bariatric Surgery Addiction Transfer and Other Behavioral Changes Following Bariatric Surgery Physiologic Mechanisms of Weight Loss Following Metabolic Bariatric Surgery Pediatric Metabolic and Bariatric Surgery Laparoscopic Gastric Bypass Still the Gold Standard Revisional Bariatric Surgery Ventral Hernia Management in Obese Patients Laparoscopic vertical sleeve gastrectomy and more Management of Morbid Obesity Harvey J. Sugerman,Ninh Nguyen,2005-09-29 Edited by world renowned bariatric surgeons this comprehensive reference provides a clear overview of multidisciplinary approaches to bariatric surgery and clearly details the techniques and outcomes of commonly performed bariatric operations potential complications associated with bariatric surgery and practices in long term follow up and nutri 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 Nezhat's Video-Assisted and Robotic-Assisted Laparoscopy and Hysteroscopy with DVD Camran Nezhat,Farr Nezhat,Ceana Nezhat,2013-05-23 This new edition catalogs the full spectrum of laparoscopic and hysteroscopic procedures used in

gynecology gynecologic oncology and infertility surgery **Indianapolis Monthly** ,2005-07 Indianapolis Monthly is the Circle City s essential chronicle and guide an indispensable authority on what s new and what s news Through coverage of politics crime dining style business sports and arts and entertainment each issue offers compelling narrative stories and lively urbane coverage of Indy s cultural landscape The Perfect Sleeve Gastrectomy Michel Gagner,Almino Ramos Cardoso,Mariano Palermo,Patrick Noel,David Nocca,2020-05-06 Sleeve gastrectomy SG is the most common bariatric procedure performed worldwide more than 55% of bariatric procedures are sleeve gastrectomies This title will be comprehensive and detail all the approaches used in performing sleeve gastrectomy offering readers all the tools needed to perform the perfect SG Obesity has become a major global problem that continues to spread in both developed and developing countries It costs more than any other health problem due to its prevalence and its many costly complications such diabetes and heart disease as well as in disability and loss of productivity While prevention of obesity is the best approach for the future the current problem lies with managing those who are already obese or morbidly obese who constitute close to two thirds of the population in many countries such as the US Diet exercise and behavioral change are the mainstays for any meaningful attempt for significant and durable weight loss Unfortunately for those who are morbidly obese these measures alone almost consistently fail to achieve acceptable weight loss in the long term Today bariatric surgery is the only evidence based treatment for morbid obesity with a low complication rate and acceptable results in the long term for both weight loss and resolution of comorbidities Despite the data the acceptance of these operations was limited due to fear of what was perceived as major surgery Today applying minimally invasive technology to these complex operations made them more acceptable to patients due to decreased pain faster recovery and fewer overall complications This in addition to improved outcomes as we went further along the learning curve has made these operations more common and helped growing the field to be an independent specialty for surgeons and perhaps a new specialty for gastroenterologist In these exciting times the 5 international editors one of them Michel Gagner is the creator of the SG wanted to capture the global standards of practice at a time of change excitement and lots of controversy regarding this common procedure We an aim to shed light on best practices across the borders the intention of this volume is to develop a reliable reference to guide the practicing physician anywhere in the world and from whatever specialty surgeon gastroenterologist or endoscopist to navigate through the many current options of therapy in this rapidly changing field We also aim to provide high quality illustrations and high definition videos of these techniques to go with the didactic chapters written by thought leaders In this book we will focus first on the clinical problems of the patients and the indications for the sleeve Regarding the technical aspects we will describe the technique step by step including videos and also we will detail the staplers its size and different colors and the different sizes of the bougies and also special description of the reinforcement of the sutures after the sleeve We know that mainly the SG has a restrictive function but we will also describe the metabolic effects of this surgery Then we

will describe the nontraditional SG techniques such as the endoscopic approach staples sleeve and robotic technologies Bariatric surgery has very few rates of complications but when complications happen they are severe Thus we will describe how to identify them immediately and also the different approaches to treat them by endoscopy laparoscopy and percutaneous image guided surgery A chapter will also cover revisional surgery and the different revisional procedures not only from sleeve to other procedures but also from other procedures to SG For the last section we will include the lessons learned from almost 20 years now since the SG was first described providing an overview on how we imagine the future will be for the most common bariatric procedure performed worldwide This title will be an ideal reference for general surgeons bariatric surgeons endoscopists and gastroenterologists with interest in obesity management as well as researchers with interest in obesity Residents and fellows training in general and bariatric surgery as well as in endoscopy Dietitians diabetes specialist psychotherapists with interest in obesity management as well as hospital administrators and quality officers in hospitals with bariatric practices will also benefit by this book

Fundamentals of Hernia Radiology Salvatore Docimo Jr., Jeffrey A. Blatnik, Eric M. Pauli, 2023-03-16 This book offers a complete focus on the radiographic analysis of the abdominal wall and hernias An estimated 20 million hernias are repaired annually throughout the world As the technology utilized to complete hernia repairs becomes more complex surgeons are required to have a more thorough understanding of the radiographic anatomy and diagnostic modalities used to evaluate hernias Furthermore the amount that now goes into the preoperative planning of hernias for complex repairs such robotic and open transversus abdominis muscle release procedures requires an understanding of radiology and the ability to identify nuances of anatomy offered by the imaging The use of mesh and extent of re do hernia repairs has also complicated radiographic evaluation of hernias The text is a comprehensive review of abdominal wall imaging broken down into individual types of hernia Each hernia type is discussed with consideration to the best type of imaging evaluation unique radiographic findings and considerations prior to repair Representative images diagrams and videos are used to point out anatomy and features of the hernia This text offers the first of its kind standardized approach to evaluating hernias radiographically Most importantly each hernia and chapter is approached with the surgeon in mind meaning authors explain the radiology based on anatomy and with a plan for surgical repair on the horizon Select chapters include illuminating videos to give context to the text This is an ideal guide for practicing surgeons and trainees treating patients with hernias

Operative Pediatric Surgery 6Ed Lewis Spitz, 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 touching upon indications complications and non operative management Operative Pediatric Surgery remains the pre eminent operative guide to a full range of paediatric conditions

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Minimally Invasive Bariatric Surgery Introduction

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