

## Review Article

# Prevention and Management of Complications in Laparoscopic Myomectomy

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Myomectomy aims to preserve fertility, treat abnormal uterine bleeding, and alleviate pain. It should cause minimal damage to the endometrium, while being tolerable and durable, and reduce the incidence of myoma recurrence and complications including bleeding, hematoma, adhesions, and gravid uterus perforation. Training and experience are crucial to reduce complications. The surgical strategy depends on imaging information on the myomas. The position of the optical and secondary ports will determine the degree of ergonomic surgery performance, time and difficulty of myoma enucleation, and the suturing quality. Appropriate hysterotomy length relative to myoma size can decrease bleeding, coagulation, and suturing times. Bipolar coagulation of large vessels, while avoiding carbonization and myometrium gaps after suturing, may decrease the risk of myometrial hematoma. Quality surgery and the use of antiadhesive barriers may reduce the risk of postoperative adhesions. Slow rotation of the beveled morcellator and good control of the bag could reduce *de novo* myoma and endometriosis. Low intra-abdominal CO<sub>2</sub> pressure may reduce the risk of benign and malignant cell dissemination. The benefits a patient gains from laparoscopic myomectomy are greater than the complication risks of laparoscopic morcellation. Recent publications on laparoscopic myomectomies demonstrate reduced hospitalization stays, postoperative pain, blood loss, and recovery compared to open surgery.

## 1. Introduction

Uterine fibroids are a common disorder with an estimated incidence of 20–40% in women during their reproductive years [1, 2]. Myoma diagnosis has been substantially improved in the last decade, mainly due to higher sensitivity and specificity of imaging modalities and improved knowledge about how a myoma alters normal endometrial function. The frequency of myoma varies according to age, inheritance, and possibly body mass index [3]. The fact that more women are seeking childbirth at a later age increases the frequency of infertility due to myoma presence, and

reduces the implantation potential. Submucous and intracavitary myomas are usually operated on using hysteroscopy, while subserous myomas are approached with laparoscopy. In comparison, intramural myomas can be operated by hysteroscopy or laparoscopy depending on the size (<4 cm) and surgeon's experience. The number, size, location, and vascularization of a myoma as well as the experience of the surgeon predict the outcome of the operation and subsequent risk of complications [3].

Recent studies demonstrate that the complications after myomectomy have been increasing in the last decade [4, 5]. This trend can partially be attributed to the shift toward

# Complications Of Endoscopic And Laparoscopic Surgery Prevention And Management

**Jan Odom-Forren**



## **Complications Of Endoscopic And Laparoscopic Surgery Prevention And Management:**

**Complications of Endoscopic and Laparoscopic Surgery** Jeffrey L. Ponsky, 1997 Complications are an acknowledged part of any surgical practice Infections are a common factor in complications technical misadventures are less frequent but can be equally serious One result of the influx of endoscopic and laparoscopic operations has been an increase in complications caused by the inherent inability of the operating surgeon to envisage the operative area and sometimes due to the inexperience and inability of the operator to master the technical demands presented by minimally invasive surgery This concise book identifies the complications of endoscopic and laparoscopic techniques and describes their prevention and management **Prevention and Management of Laparoendoscopic Surgical Complications, 2nd Edition**, 2005

*Prevention & Management of Laparoendoscopic Surgical Complications* Michael S. Kavic, 1999 **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 **Complications of Urologic Surgery E-Book** Samir S. Taneja, Ojas Shah, 2017-09-07 From the simple to the complex Complications of Urologic Surgery 5th Edition by Drs Samir S Taneja and Ojas Shah offers concise to the point information on prevention and management strategies that help you provide the best patient care Covering both office based complications as well as common and uncommon surgical complications arising from open and minimally invasive urologic surgery this updated full color volume is an invaluable resource for exam study or for convenient reference in everyday practice Contains hundreds of self assessment questions case studies and minimally invasive surgery videos on Expert Consult as well as review questions and illustrated case studies throughout the book Contains 14 new chapters including Management of Urine Leak Urologic Surgery in the Pregnant Female Complications of Gender Assignment Surgery Urologic Surgery in the Previously Radiated Field Complications of Robotic Pelvic Floor Reconstruction and Complications of Robotic Cystectomy Keeps you up to date with current preoperative management concerns including complications with effusion hydrothorax hemothorax diaphragm injury pneumonia and air embolus Features more than 180 superb new illustrations graphs and tables for easier understanding of complex concepts Reviews new anticoagulant drugs and their risks and benefits Provides thoroughly updated content on oncology endourology and pediatric surgeries all areas experiencing tremendous changes since the previous edition Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures Q As and references from the book on a variety of devices **Kirk's General Surgical Operations E-Book** Richard Novell, Daryll Baker, Nicholas Goddard, 2013-04-23 General Surgical Operations is a highly praised and comprehensive textbook of operative surgery It is a practical manual aimed at the surgeon who is about to carry out an operation rather than just a description of the principles suitable for an examiner Kirk's General Surgical Operations continues to be aimed at a broad readership the candidate preparing for the

Intercollegiate FRCS in General Surgery or international equivalents the trained surgeon faced through necessity with undertaking an infrequently performed procedure and the many surgeons working in hospitals throughout the world without access to specialist services It remains above all a practical text which will guide the surgeon in training or one unfamiliar with a procedure on how to perform it but more importantly on how to manage the uncertainties which so often arise This is a What to do book Using it the reader can aspire to gain diagnostic decision making and operative surgical competence with confidence The book is written in a clear and direct style and providing explicit instructions using descriptive headings for easy reference The contents covers standard routine operations in full non routine and rarely performed operations are included only where appropriate and in lesser detail The text includes advice on topics such as patient selection preparation and access to the site of operation how to accomplish the procedure closing and aftercare Difficulties are highlighted and advice given on how to respond to unexpected findings Each procedure is fully described thus avoiding repetitions and cutting cross references to a minimum Regular summaries of key points in the decision making process are included This Sixth Edition is now known as Kirk s General Surgical Operations in recognition of its distinguished founding editor Professor RM Kirk who is now Editor Emeritus on the textbook The new editorial team for the Sixth Edition comprises a colorectal surgeon a vascular surgeon and an orthopaedic surgeon The contents have been restructured and radically revised into 42 chapters the majority of which have been completely rewritten Laparoscopic techniques have been incorporated into all relevant chapters All the illustrations have been redrawn to improve their clarity

*Rush University Medical Center Review of Surgery E-Book* Jonathan A. Myers, Minh B. Luu, Keith W. Millikan, Bruce A. Orkin, Steven D. Bines, Edie Y. Chan, Edward F. Hollinger, 2017-07-01 Study efficiently and effectively for high stakes surgery exams with this superb review tool Rush University Medical Center Review of Surgery 6th Edition has been thoroughly updated with new questions and answers in all chapters and content has been revised to reflect what is most important on today s exams A broad range of surgical topics provide a complete review of the information you need to know Comprehensive coverage of both general surgery and surgical subspecialties in a user friendly question and answer format that mimics actual exams More than 1 500 peer reviewed questions mirror standardized test blueprints Single best answer format provides a realistic exam simulation Questions are followed by answers and explanations with rationales backed up by references to leading texts and references Ideal for residents in training surgeons preparing for certification or recertification exams and experienced clinicians who need to stay up to date with current practices and recent advances Written by one of the premier general surgery departments in the U S with a new editorial team led by Dr Jonathan A Myers Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices

Complications in Laparoscopic Surgery Cavit Avci, José M. Schiappa, 2015-11-21 This book is a detailed guide to the intra and postoperative complications that may arise during the most frequently used laparoscopic techniques

with explanation of how and at what point in time they may arise what can be done to avoid them and how to deal with them if they do occur Individual chapters each written by an expert in the area focus on the complications associated with the creation of pneumoperitoneum laparoscopic cholecystectomy laparoscopic management of gastroesophageal reflux disease colorectal laparoscopic surgery minimally invasive spleen surgery and laparoscopic hernia repair TAPP and TEP Attention is drawn to useful tips and tricks and to the most critical points in surgical procedures with a view to optimizing performance of techniques and avoiding pitfalls and complications The concise didactic text is enriched with informative drawings and photos and also with short video clips available to the reader online that will aid understanding The book will be of value both for surgical residents and for more experienced surgeons

**Prevention and Management of Complications in Bariatric Surgery** Tomasz G. Rogula, Philip R. Schauer, Tammy Fouse, 2018-04-25 As bariatric procedures become more commonplace the safety and quality of bariatric surgery continues to rise Risk factors remain inconsistent from hospital to hospital and procedure to procedure however highlighting the necessity for comprehensive education on the prevention and management of their resulting complications In response to this need Prevention and Management of Complications in Bariatric Surgery is the first book to compile the most up to date prevention and management strategies in this field Edited by leading experts it provides sound recommendations for collecting monitoring and analyzing outcomes with an emphasis on quality and process improvement Its scope is tremendously comprehensive covering everything from common complications such as leaks bleeding wound infections and venous thromboembolism to rare but deadly complications such as Wernicke's encephalopathy and rhabdomyolysis as well as the emergency management of various life threatening complications including internal hernia gastric necrosis from banding pulmonary embolus and bleeding Readers also learn about early day late day and intraoperative complications for which the authors provide evidence based recommendations for swift and accurate diagnosis preventive strategies and best practices in medical and surgical management Comprehensive and accessible this book is a valuable resource for bariatric surgeons and surgical trainees physicians and nurses who participate in the perioperative care of the bariatric patient

**Essential General Surgical Operations** R. M. Kirk, Marc C. Winslet, 2007-01-01 This title is directed primarily towards health care professionals outside of the United States It has been specifically produced to meet the needs of the basic surgical trainee who is looking for a concise operative text Adapted from the best selling parent title GENERAL SURGICAL OPERATIONS it includes a straightforward description of all common major operations together with a brief account of the less common procedures encountered during the early stages of surgical training The highly praised features of GENERAL SURGICAL OPERATIONS have been retained including the clear direct writing and illustrative style and boxes which emphasise and give advice on how to recognise avoid and correct difficulties A vade mecum for every young surgeon intending to enter the operating theatre and perform safely Outlines in simple terms the dangers and difficulties that make each operation unique Derived from the critically acclaimed parent title

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**Prevention and Management of Complications in Minimally Invasive Surgery** Raymond J. Lanzafame, 1996 **The Mastery of Bile**

**Duct Injury** Qalandar H. A. Kasnazani, 2025-06-27 The Mastery of Bile Duct Injury is a comprehensive medical reference that explores the various aspects of biliary injuries encompassing anatomy causes classifications clinical management and surgical procedures with a particular focus on complications arising from laparoscopic cholecystectomy It not only provides a meticulous dissection of biliary injuries but also navigates through the labyrinth of diagnostic modalities and therapeutic approaches illuminating the path toward enhanced patient care surgical precision and the future of research in this area Through its detailed examination this authoritative reference serves as an invaluable resource for the complexities of biliary pathology empowering readers to navigate the challenges inherent in hepatobiliary surgery Beginning with the historical evolution of cholelithiasis and extending to the impact of laparoscopic cholecystectomy this book provides detailed insights into the intrahepatic and extrahepatic biliary systems offering a foundation for understanding the complexities of biliary injuries encountered during surgical procedures By addressing classification management and prevention strategies this book serves as an invaluable resource for optimizing patient outcomes and minimizing complications in hepatobiliary surgeries In a field where staying current with best practices is essential The Mastery of Bile Duct Injury emerges as a vital reference catering to the needs of surgeons clinicians and researchers alike Its interdisciplinary approach and thorough examination of topics make it an indispensable resource for anyone involved in hepatobiliary surgery or seeking a deeper understanding of biliary injuries Provides detailed coverage of biliary anatomy injury classifications pathophysiology and various surgical procedures addressing the information needs of medical professionals and researchers seeking a thorough understanding of biliary injuries and their management Offers evidence based management strategies diagnostic approaches and surgical techniques which are valuable for addressing the daily challenges faced by professionals making informed clinical decisions and implementing best practices Explores specialized knowledge and practical insights crucial for growth and proficiency in hepatobiliary surgery and associated disciplines **Advances in Obstetrics and Gynecology (Vol. 3)**

Sumita Mehta, Shalini Rajaram, Neerja Goel, 2011-03-14 The book was conceived with a purpose of updating practicing gynecologists in the ever changing field of medicine We hope this book refreshes the readers on a wide variety of topics The book for the first time brings to the readers the concept of obstetric High Dependency Unit and Intensive Care Unit Although this has been the practice in the west this concept needs to be introduced in many countries to optimally manage high risk obstetric patients The definition and management of placenta previa have changed over the years with more focus on conservative management and a greater emphasis on vaginal delivery In the litigious environment that we live in today safe

anesthesia practice in obstetric patients is of paramount importance to avoid deaths in both the neonates and the mothers Readers will also find this book a useful source material in updating their knowledge on intrauterine infections Laparoscopic gynecologic surgery has replaced conventional surgery for most conditions and the chapter on troubleshooting in operative laparoscopy will prove to be helpful in day to day practice Primary prevention of cervical cancer is possible today and HPV carcinogenesis will make understanding of both screening and vaccination better The problems of both adolescent and postmenopausal bleeding have been given due attention in the well written chapters with emphasis on recent updates Our books are never complete without a chapter on menopause With the controversy surrounding long term hormone therapy use we have explored alternative therapies in menopause Lastly a chapter on pain relief in gynecological malignancy will help in better management of palliative care in such patients which is largely neglected

**Major Complications of Female Pelvic Surgery** Mitchel Hoffman, Tracy L. Hull, Bernard H. Bochner, 2025-03-10 This book gives a multidisciplinary perspective on complications of female pelvic surgery The confined space of the pelvis precludes a clear separation of the pelvic surgical disciplines and pelvic surgery is therefore multidisciplinary by nature This work addresses this overlap by featuring three editors one from each of the major pelvic surgery disciplines gynecology urology and colorectal surgery The chapters are broken down into medical surgical and procedure related complications and address each complication s background prevention recognition and management Written by experts in the field this book is an easy to use resource for all surgeons who perform pelvic operations

Complications of Gynecologic Endoscopic Surgery Keith B. Isaacson, 2006 Examines all aspects of complications that can potentially occur in gynecologic endoscopic surgery It offers comprehensive coverage of the entire patient perioperative process from choosing the appropriate patient to undergoing gynecologic endoscopic surgery Each chapter touches on the prevention recognition and management of a specific complication and starts with a review of the literature on the likelihood that a specific complication will occur Abundant diagrams and photographs of complications and management enhance the material and illustrate and clarify the concepts presented

**Drain's PeriAnesthesia Nursing - E-Book** Jan Odom-Forren, 2022-12-27 Selected for Doody s Core Titles 2024 with Essential Purchase designation in Perioperative Trusted for more than 30 years Drain s PeriAnesthesia Nursing A Critical Care Approach 8th Edition provides comprehensive clinical content tailored specifically for perianesthesia nurses An easy to use format with five distinct sections covering the PACU anatomy and physiology pharmacology nursing care and special considerations means you get the equivalent of five books in one Nursing and pharmacologic interventions are integrated with in depth coverage of pathophysiology and updated content includes the latest standards and current issues affecting perianesthesia nursing practice Focusing on research documentation and psychosocial considerations this is the one book that can take you all the way from being a novice nurse in the PACU to preparing for CPAN or CAPA certification Five separate sections provide comprehensive coverage including the PACU anatomy and physiology pharmacology nursing care

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**Index Medicus** ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings **Bariatric Surgery Complications and Emergencies** Daniel M. Herron,2016-03-08 This book provides a concise focused and clinically relevant summary of complications and emergencies related to bariatric surgery The first section of the text addresses general complications related to anesthesia and the stress of surgery including issues such as deep vein thrombosis pulmonary embolism hemorrhage pneumonia and cardiac complications Additionally this section addresses the workup of the bariatric patient with abdominal pain The second portion of the text focuses on gastric bypass and sleeve specific complications including staple line and anastomotic leaks internal hernia marginal ulceration GI obstruction hernia formation and gallstone disease The third portion of the book examines metabolic nutritional and psychological complications after bariatric surgery The text also covers management of weight loss failure Bariatric Surgery Complications and Emergencies serves as a very useful resource for physicians and surgeons who are involved in any parts of evaluation or management of bariatric patients suffering from postoperative complications or emergencies including bariatric surgeons who perform these operations on a regular basis non bariatric general surgeons who cover such patients when on call surgical trainees and primary care physicians *Obesity, Bariatric and Metabolic Surgery* Sanjay Agrawal,2023-02-01 This comprehensive guide with over 100 chapters covers all the aspects of bariatric and metabolic surgery including perioperative management surgical techniques of common as well as newer procedures complications controversies and outcomes All the chapters have been revised in this second edition with addition of new chapters and sections on OAGB MGB Surgery Metabolic Surgery There are dedicated sections on revisional surgery and innovative endoscopic procedures The book is well illustrated with photos and video clips along with step by step guidance for a complete range of Bariatric procedures Medical aspects of obesity and metabolic syndrome are included in the introductory sections and the last two sections cover diverse topics in this exciting field of bariatric surgery Written by leading experts *Obesity Bariatric and Metabolic Surgery A Comprehensive Guide* serves as an



excellent reference manual for a wide range of healthcare professionals involved within the Bariatric Multidisciplinary Team including Bariatric Surgeons General Surgeons Trainees Physicians Anaesthesiologists Dieticians Psychologists Psychiatrists Radiologists and Nursing staff

## Reviewing **Complications Of Endoscopic And Laparoscopic Surgery Prevention And Management**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Complications Of Endoscopic And Laparoscopic Surgery Prevention And Management**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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