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# Laparoscopic-assisted anorectal pull-through vs. posterior sagittal anorectoplasty for treating high anorectal malformations: a single-center experience

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## Abstract

**Background/purpose:** Surgical management of high-type anorectal malformations (ARM) has evolved over the years with the widespread of the laparoscopic approach over the last two decades. This study aims to compare the outcome of patients with high anorectal malformation (ARM) managed with laparoscopic-assisted anorectal pull-through (LAARP) vs. the open posterior sagittal anorectoplasty (PSARP) at a single institution.

**Methods:** A retrospective chart review of pediatric patients, who were managed for high-type ARM at our institution, was performed for the period 2000–2015. Nine were excluded because of a lack of important data. Demographic data, surgical approach, associated anomalies, and complications were collected. Functional outcome was measured using the modified clinical scoring for the defecation function of the Japanese study group of anorectal anomalies. Comparison between groups was done using the *T* test for continuous variables and the Fisher-exact test for proportions.  $P < 0.05$  is considered statistically significant.

**Results:** There were 82 patients with high type imperforate anus (59 males and 23 females) 73% had laparoscopy vs. 27% open. Type of fistulae were rectourethral (36), rectovesical (12), no fistula (19), and (15) cloaca anomalies. Patients underwent surgery at a mean age 8.4 (laparoscopy) vs. 10.1 (open) months ( $P$  value = 0.14). There was no difference between the two groups regarding weight at the surgery or associated anomalies, except for VACTERAL and genitourinary malformations which were more among the laparoscopic group (8 vs. 1).

There was no statistical significance for all elements of defecation function score: sensation, constipation, and soiling ( $P$  values 0.17, 0.6, 0.07, respectively). There was no difference between the two groups regarding rectal prolapse ( $P = 0.06$ ), whereas rectal stenosis is more in PSARP compared to LAARP ( $P = 0.03$ ). The hospital stay was significantly shorter in LAARP 7.1 vs. 9.4 ( $P = 0.006$ ).

**Conclusions:** The defecation function and complication rate for both laparoscopic and open groups were almost similar. This may justify the preference of the laparoscopic approach over the open one, given its minimally invasive nature.

**Keywords:** Anorectal malformations, High type, Laparoscopic, Sagittal

## Background

Anorectal malformations include a wide spectrum of varieties ranging from the simple imperforated membranous anus to a more complex anorectal fistula. High-grade anorectal malformations, which include common

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# Anorectal Malformations A Surgeons Experience

**Haile T. Debas, Peter Donkor, Atul  
Gawande, Dean T. Jamison, Margaret E.  
Kruk, Charles N. Mock**

## **Anorectal Malformations A Surgeons Experience:**

**Anorectal Malformations in Children** Alexander Matthias Holschneider, John M. Hutson, 2007-08-16 *Anorectal Malformations in Children* represents an international consensus in understanding and treating anorectal malformations. Interesting new topics include tethered cord, vaginal reconstruction, continent catheterizable channels, and the impact on family studies by parents' organizations. The book not only carries on from the three previous editions by Douglas Stephens and Durham Smith (1963, 1971, and 1988) but assembles many new aspects in the broad field of anorectal and genitourinary malformations. Special attention is given to the new surgical techniques: posterior sagittal anorectal plasty (PSARP), urogenital sinus advancement, and laparoscopy. The results of an international workshop of 26 international authorities on congenital malformations of the organs of the pelvis and perineum are presented. The new classification proposed at the Krickenberg Conference will enable future studies comparing the types and the results of treatment of anorectal malformations. The book is an invaluable reference for all medical authorities with a special interest in anorectal and genitourinary malformations.

**Anorectal Malformations** Subir K. Chatterjee, 1993-05 Written for paediatric surgeons and other clinicians who deal with anorectal malformations, this text describes in detail the operative procedures for each important anomaly with the help of over 300 photographs, X-rays, and diagrams.

**Neonatal Surgery** Mario Lima, Olivier Reinberg, 2019-04-13 This comprehensive up-to-date reference on surgery in the neonate presents and explains the latest developments in the diagnosis and treatment of neonatal malformations and surgical pathologies. The coverage includes conditions involving the head and neck and the chest, disorders of the liver and biliary tract, gastrointestinal disorders, genitourinary conditions, and malformations of the anterior abdominal wall, defects, tumors, and various other pathologies. For each condition, the pathogenesis and the most current and innovative surgical and also medical approaches are described with the aid of numerous illustrations. Minimally invasive strategies receive particular attention, and tips and tricks that will be of value in clinical practice are highlighted. The book includes a general part covering topics such as embryology, anatomy, prenatal diagnosis, and anesthesia, and also provides detailed advice on pre- and postoperative care, with special consideration of nutritional problems. *Neonatal Surgery* will serve as an excellent guide for all pediatric and neonatal surgeons, whether in training or experienced.

**Surgical Pitfalls E-Book** Stephen R. T. Evans, 2008-11-28 This book provides a unique visual and comprehensive approach to intraoperative technical errors and covers identification, consequences, repair, and prevention of those errors. Detailed analyses of all reported complications for more than 80 major operations help you minimize the risk of errors in surgical procedures, ranging from general thoracic, vascular, and pediatric to colorectal, endocrine, breast, and trauma. A practical approach provides you with the essential guidance you need to make the best clinical decisions. Offers in-depth guidance on the prevention, management, and consequences of complications and pitfalls that occur before, during, and after surgery. All in one convenient resource. Organizes sections according to area of surgery for fast reference. Features a

templated outline for specific procedures allowing you to quickly review the associated pitfalls Presents over 800 illustrations including full color intraoperative and postoperative photos which enable you to follow the progression of a surgery and watch out for problem areas while color line drawings help you visualize complex procedures     *The ASCRS Textbook of Colon and Rectal Surgery* David E. Beck, Patricia L. Roberts, Theodore J. Saclarides, Anthony J. Senagore, Michael J. Stamos, Yosef Nasser, 2011-06-09 Developed in conjunction with the American Society of Colon and Rectal Surgeons this comprehensive textbook provides readers with the full scope of surgical practice for patients with diseases of the colon and rectum Expert surgeons all active both as educators and with busy clinical practices have written concise and practical chapters on the most commonly done procedures while providing much needed insight on less frequently presentations as well The ASCRS Textbook is designed to meet the needs not only of colorectal specialists but also the general surgeon in practice whose caseload includes patients with disorders and diseases of the colon rectum and anus Residents and fellows will also find a wealth of hands on guidance and practical tips and tricks The ASCRS Practice Parameters are incorporated in the book along with an appendix providing the most up to the minute access to best practice guidelines Patient care and safety are addressed in each chapter The ASCRS Textbook of Colon and Rectal Surgery is a long awaited textbook for those in the field and it does not disappoint It is brief and to the point but does not lack the necessary detail expected from a society produced publication It has an easy to read quality that enhances comprehension for the trainee It is by no means just a student textbook The inclusion of hot current topics like the anal fistula plug makes it fresh and useful for experienced surgeons This is an excellent addition to the colorectal library Doody's Review     **Abernathy's Surgical Secrets E-Book** Alden H. Harken, Ernest E. Moore, 2017-08-15 For more than 30 years the highly regarded Secrets Series has provided students and practitioners in all areas of health care with concise focused and engaging resources for quick reference and exam review Abernathy's Surgical Secrets 7th Edition features the Secrets popular question and answer format that also includes lists tables and an easy to read style making reference and review quick easy and enjoyable The proven Secrets format gives you the most return for your time concise easy to read engaging and highly effective Covers the full range of essential topics in general surgery for in training or practicing professionals Written by global experts and thought leaders in surgery Top 100 Secrets and Key Points boxes provide a fast overview of the secrets you must know for success in practice and on exams Portable size makes it easy to carry with you for quick reference or review anywhere anytime Fully updated throughout with clear illustrations figures and flow diagrams that expedite study and review 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     *Surgical Treatment of Colorectal Problems in Children* Alberto Peña, Andrea Bischoff, 2015-04-14 This superbly illustrated book on the surgical treatment of pediatric colorectal problems focuses in particular on the specific technical maneuvers that may be considered key to successful results The presented management

concepts are based on a database comprising over 5000 patients more than 2300 of whom have been operated on by one of the authors as lead surgeon over the past 30 years The full range of colorectal disorders in children is thus covered from cloaca and fistulas to rare presentations In addition chapters are included on topics such as prenatal diagnosis minimally invasive techniques recent advances in imaging and a bowel management program for fecal incontinence Surgical Treatment of Colorectal Problems in Children is eminently a practical book Clarity simplicity and applicability are emphasized throughout The excellence of the illustrations and photographs is a crucial feature and the reader will also have access to instructive videos of procedures **Abernathy's Surgical Secrets: First South Asia Edition - E-Book** Alden H.

Harken,2017-11-30 For more than 30 years the highly regarded Secrets Series has provided students and practitioners in all areas of health care with concise focused and engaging resources for quick reference and exam review Abernathy s Surgical Secrets First South Asia Edition features the Secrets popular question and answer format that also includes lists tables and an easy to read style making reference and review quick easy and enjoyable The proven Secrets format gives you the most return on your time concise easy to read engaging and highly effective Covers the full range of essential topics in general surgery for in training or practicing professionals Fully updated throughout with clear illustrations figures and flow diagrams that expedite study and review Written by global experts and thought leaders in surgery Top 100 Secrets and Key Points boxes provide a fast overview of the secrets you must know for success in practice and on exams Portable size makes it easy to carry with you for quick reference or review anywhere anytime *The ASCRS Textbook of Colon and Rectal Surgery* Scott R. Steele,Tracy L. Hull,Thomas E. Read,Theodore J. Saclarides,Anthony J. Senagore,Charles B. Whitlow,2016-03-24 This third edition text provides a completely revised and updated new version of this unique modern practical text that covers the strategic evaluation specific approaches and detailed management techniques utilized by expert colorectal surgeons caring for patients with complex problems whether they result from underlying colorectal disease or from complications arising from previous surgical therapy The format follows that of both a how to manual as well as an algorithm based guide to allow the reader to understand the thought process behind the proposed treatment strategy By making use of evidence based recommendations each chapter includes not only background information and diagnostic therapeutic guidelines but also provides a narrative by the author on his her operative technical details and perioperative tips and tricks that they utilize in the management of these complex surgical challenges Distinctive to this book is the reliance on experts in the field including past presidents of the ASCRS as well as multiple other national and internationally recognized surgeons to lend their personal insight into situations where data may be more sparse but individual and collective experience is paramount to making sound decisions and thereby optimizing patient outcomes The text includes chapters on the assessment of risk and methods utilized to minimize perioperative complications In addition it incorporates sections covering the medical and surgical therapies for abdominal pelvic and anorectal disease Moreover the technical challenges of managing

complications resulting from the original or subsequent operations is addressed The underlying focus throughout the text is on providing pragmatic and understandable solutions that can be readily implemented by surgeons of varying experience to successfully treat complex colorectal problems However it also goes beyond the technical aspects of colorectal surgery and includes special sections highlighting the essence of a surgeon covering aspects involving the medical legal ethical and economic challenges confronting surgeons Throughout the text each author provides an ongoing narrative of his her individual surgical techniques along with illustrations and diagrams to personally take the reader through the crucial steps of the procedure and key points of patient care inherent to that topic Additionally where appropriate links to online videos give the reader an up front look into technical aspects of colorectal surgery

Cumulated Index Medicus ,1972      *Pediatric Urology* Prasad P. Godbole,Martin A. Koyle,Duncan T. Wilcox,2015-07-20 *Pediatric Urology Surgical Complications and Management* 2nd edition focuses 100% on the most common problems that can occur during pediatric urologic surgery and how best to resolve them ensuring the best possible outcome for the patient As well as being thoroughly revised with the latest in management guidelines brand new to this edition are a host of clinical case studies highlighting real life problems during urologic surgery and the tips and tricks used by the surgeon to resolve issues faced These will be invaluable for urology trainees learning their trade as well as for those preparing for Board or other specialty exams Chapters will include problem solving sections as well as key take home points In addition high quality teaching videos showing urologic surgery in action will be included via the companion website again proving an invaluable tool for all those seeking to improve their surgical skills Edited by an experienced and international trio of urologists they will recruit the world s leading experts resulting in a uniform high quality and evidence based approach to the topic *Pediatric Urology Surgical Complications and Management* 2nd edition is essential reading for all urologists especially those specialising in pediatric urology and urologic surgery as well as general surgeons

*Highlights in Coloproctology* Philip F. Schofield,N.Y. Haboubi,D.F. Martin,2012-12-06 An experienced pathologist radiologist and clinician combine forces to review the recent literature on coloproctology and give a precis of the results Their *Highlights in Coloproctology* are the ideal source for a clinician or researcher who wants a quick overview of the subject The book highlights the papers that have had an impact on developments in the field and brings the reader up to date with modern references

Handbook of Pediatric Surgery Chandrasen K. Sinha,Mark Davenport,2022-01-17 The new fully updated edition of this book gives a concise overview of all important topics and is designed to provide information to recognise and treat common pediatric surgical conditions namely symptoms and signs investigation and management A logical evidence based practice is encouraged by the use of flow charts tables and algorithms This edition has been thoroughly revised to reflect the rapid progress in the world of pediatric surgery including the subspecialties of general pediatric surgery urology hepatobiliary surgery organ transplantation minimally invasive surgery including robotic surgery and bariatric surgery This book also provides an anatomical and physiological

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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

**Journal of the Indian Medical Association** ,2004      **Complexities in Colorectal Surgery** Scott R. Steele,Justin A. Maykel,Bradley J. Champagne,Guy R. Orangio,2014-02-03 Complexities in Colorectal Surgery Decision Making and Management provides a unique modern practical guide that covers the strategic evaluation specific approaches and detailed management techniques utilized by expert Colorectal Surgeons caring for patients with complex problems whether they result from underlying colorectal disease or from complications arising from previous surgical therapy The text is formatted as both a how to manual as well as an algorithm based guide allowing the reader to understand the thought process behind the proposed treatment strategies By making use of evidence based recommendations each chapter will include not only diagnostic and therapeutic guidelines but also a narrative by the author on his her operative technical details and perioperative tips and tricks that they utilize in the management of these complex surgical challenges This text includes chapters on the assessment of risk and nutritional intervention methods utilized to minimize perioperative complications In addition sections on medical and surgical therapies for abdominal pelvic and anorectal disease are incorporated Moreover the technical challenges of managing complications resulting from the original or subsequent operations is addressed The underlying focus throughout the text is to provide pragmatic and understandable solutions that can be readily implemented by surgeons of varying experience to successfully treat complex colorectal problems The text also goes beyond the technical aspects of Colorectal Surgery and includes special sections highlighting the essence of a surgeon These include chapters describing the importance of the first encounter building patient rapport and demonstrating confidence and competence while showing humility and avoiding arrogance Additionally aspects involving the medical legal ethical and economic challenges confronting surgeons are covered



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