

# Reconstructive Surgery in the Lower Urinary Tract in Children: Can the Complication Rate Be Reduced?

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## Abstract

**Objective:** Reconstructive surgery of the lower urinary tract in children is reported with a high complication rate. The aim was to evaluate the complication rate at our institution. **Material and methods:** Between 2000 and 2010, 41 boys and 19 girls were consecutively operated on with augmentation with ileum (45), alternative CIC-channel (57) and bladder neck plasty (42) in isolation or as combined procedures in individuals with neurogenic bladder dysfunction NBD (42), bladder exstrophy-epispadias complex BEEC (13), isolated epispadias IE (2) and posterior urethral valves, PUV (3). Median age at surgery was 11 years (range 1.3 - 21) and median follow-up time 7 years (1 - 10). Complications were consecutively observed at follow-up according to a structured protocol. As first line care, specially trained nurses followed the patients and daily bladder irrigation was included in the CIC follow-up regimen. **Results:** In individuals with augmentation with ileum, of which all but one performed CIC through an alternative channel, there were stones reported in 3/45 (7%), perforation in 2/45 (4%), reoperation of CIC channel in 5/57 (9%), bowel obstruction in 3/56 (5%) and rupture of BNP in 3/39 (8%). Re-augmentation was not needed and malignancy not found. No significant difference was seen between patients with NBD and BEEC/IE. **Conclusion:** Complication rates were among the lowest reported for stones, perforation and reoperations of CIC channels and were average for bowel obstruction. Bladder stones and perforation were seen in individuals with bad compliance to recommended CIC- and irrigation regimens.

## Keywords

Children; Complications; Augmentation; CIC-Channel; Bladder Neck Plasty

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# Reconstructive Surgery Of The Lower Urinary Tract In Children

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## **Reconstructive Surgery Of The Lower Urinary Tract In Children:**

*Reconstructive Surgery of the Lower Urinary Tract in Children* J. W. Thüroff, 1995      Urodynamic and Reconstructive Surgery of the Lower Urinary Tract A. R. Mundy, 1993 The third title in a multi volume textbook this aims to cover the whole of urodynamic and reconstructive surgery It covers procedural steps the frequency of clinical problems and specific procedures and the order in which to perform them Results are given to illustrate success of procedures      **Wong's Nursing Care of Infants and Children Australia and New Zealand Edition - For Professionals** Lisa Speedie, Andrea Middleton, 2021-11-09 This new text has been adapted from the highly trusted Wong s Nursing Care of Infants and Children to provide a reference for professional nurses working in paediatric and child and family health settings in Australia and New Zealand The content covers all aspects of infant child and adolescent care including anatomy and physiology child and adolescent mental health nursing care guidelines critical thinking family centred care rural and remote health cultural and psychosocial considerations common presenting conditions and therapeutic management With input from leading local expert paediatric clinicians and academics and carefully curated for practising paediatric nurses and nurses newly entering paediatrics the text aligns with local professional standards health policies legal and ethical considerations and population data Well established comprehensive text that focuses on clinical relevance for professional nurses Covers all aspects of infant child and adolescent health through an assessment and management approach Foundational information builds a solid knowledge base in paediatric nursing Written to help nurses develop a deeper understanding of the psychosocial needs of infants children adolescents and their families Case studies and research questions to build critical thinking skills Aligned to National Safety and Quality Health Service NSQHS Standards User friendly accessible content suitable for practising paediatric nurses across a variety of clinical settings and geographic locations      Pediatric Robotic and Reconstructive Urology Mohan S. Gundeti, 2012-02-03 Robotic urological surgery is one of the most significant urological developments in recent years It allows for greater precision than laparoscopic methods while retaining quicker recovery time and reduced morbidity over classical open surgical techniques For children where the room for error is already reduced because of smaller anatomy it takes on even more importance for urologists As a result robotic surgery is rightly considered one of the most exciting contemporary developments in pediatric urology Pediatric Robotic and Reconstructive Urology A Comprehensive Guide provides specialist and trainees with an innovative text and video guide to this dynamic area in order to aid mastery of robotic approaches and improve the care of pediatric patients Full color throughout and including over 130 color images this comprehensive guide covers key areas including Training instrumentation and physiology of robotic urologic surgery Surgical planning and techniques involved Adult reconstructive principles applicable to pediatrics Management of complications outcomes and future perspectives for pediatric urologic surgery Also included are 30 high quality surgical videos illustrating robotic surgery in action accessed via a companion website thus providing the perfect

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**Complications of Female Incontinence and Pelvic Reconstructive Surgery** Howard B. Goldman, 2017-03-28 The second edition of this text reviews the prevention evaluation and management of complications arising from female pelvic surgery As the field has advanced and now become its own recognized subspecialty offering Board Certification there is even more interest in this area This edition provides more specific detail of potential complications of robotic female pelvic surgery different categories of midurethral slings and specific transvaginal apical procedures There are unique complications based on the specific mode of sling placement or apical repair and they are further subdivided in this text Potential complications of both routine and specialized vaginal procedures such as transvaginal slings cystocele and rectocele repairs urethral diverticulectomy and transvaginal mesh repairs are reviewed The chapters are divided by procedure allowing the reader to easily find what they are looking for Images and diagrams of methods of evaluation and repair of these complications are included The second

edition of Complications of Female Incontinence and Pelvic Reconstructive Surgery should serve as a reference allowing the surgeon quick and ready access to information about the complications of female pelvic surgery procedures including detail on how to prevent identify and manage them     Reconstructive Plastic Surgery: The lower extremity, the trunk, the genitourinary tract John Marquis Converse, Joseph G. McCarthy, J. William Littler, 1977     Cumulated Index Medicus , 1996

**Campbell-Walsh Urology E-Book** Alan J. Wein, Louis R. Kavoussi, Alan W. Partin, Craig A. Peters, 2015-10-23

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*Campbell-Walsh-Wein Urology Twelfth Edition Review E-Book* Alan W. Partin, Craig A. Peters, Louis R. Kavoussi, Roger R. Dmochowski, Alan J. Wein, 2020-01-09 With new and updated questions based on Campbell Walsh Wein Urology 12th Edition content this comprehensive review covers all the core material you need to know for board exam preparation and MOC exams From basic science underpinnings to the most recent developments in medical and surgical care more than 3 000 questions with detailed answers help you master the most important elements in urology The high yield bulleted format and identical chapter structure as the parent text are designed for efficient effective targeted review providing exactly the information you need for exam success Keeps you up to date with key topics covered in Campbell Walsh Wein Urology 12th

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**BOPOD - Wong's Nursing Care of Infants and Children** Marilyn J. Hockenberry, David Wilson, 2014-01-30 The most trusted authority in pediatric nursing Wong's Nursing Care of Infants and Children provides unmatched comprehensive coverage of pediatric growth development and conditions Its unique age and stage approach covers child development and health promotion as well as specific health problems organized by age groups and body systems Leading pediatric experts Dr Marilyn Hockenberry and David Wilson provide an evidence based clinical perspective based on nearly 30 years of hands on experience Easy to read and extensively illustrated this edition focuses on patient centered outcomes and includes updates on topics such as the late preterm infant immunizations the H1N1 virus and childhood obesity A clear straightforward writing style makes content easy to understand Unique Evidence Based Practice boxes help you apply both research and critical thought processes to support and guide the outcomes of nursing care Unique Atraumatic Care boxes contain techniques for care that minimize pain discomfort or stress Unique Critical Thinking exercises help you test and develop your own analytical skills A unique focus on family content emphasizes the role and influence of the family in health and illness with a separate chapter discussions throughout the text and family centered care boxes Nursing Care Guidelines provide clear step by step detailed instructions on performing specific skills or procedures Unique Emergency Treatment boxes serve as a quick reference for critical situations Unique Cultural Awareness boxes highlight ways in which variations in beliefs and practices affect nursing care for children A developmental approach identifies each stage of a child's growth Health promotion chapters emphasize principles of wellness and injury prevention for each age group Student friendly features include chapter outlines learning objectives key points references and related topics and electronic resources to help you study and review important content A community focus helps you care for children outside the clinical setting Nursing Care Plans include models for planning patient care with nursing diagnoses patient family goals nursing interventions rationales expected outcomes and NIC and NOC guidelines Nursing Tips include helpful hints and practical clinical information and Nursing Alerts provide critical information that must be considered in providing care

*Essentials of Pediatric Urology* Duncan T Wilcox, David F M Thomas, 2021-12-05

Essentials of Pediatric Urology provides surgical trainees with an up to date and comprehensive account of the urological disorders of childhood In addition this popular textbook makes a valuable practical contribution to clinical decision making by Adult Urologists and General Pediatric Surgeons who treat conditions of the genitourinary systems in children This established resource fulfils a unique role as the only international textbook of Pediatric Urology written primarily for trainees and those practising adult Urology Pediatric Surgery and Pediatric Urology The third edition continues to meet this need as well as providing a ready source of reference for non specialists including Pediatricians and Nurses *Principles and Practice of Urology* MA Salam,2013-09-30 The second edition of this two volume set has been fully revised to provide the most recent advances in the field of urology Divided into 20 sections this comprehensive guide begins with an introduction to the basics of urology and presentation and investigation of associated diseases The following sections provide extensive coverage of the various aspects of urology including emergency urology paediatric urology female urology and urinary tract obstruction Volume two discusses surgical aspects including reconstructive urology transplant uro oncology and reproductive urology Each section includes the various approaches such as open laparoscopic endourologic microsurgical prosthetic tissue and genetic engineering and robotic surgeries This new edition is well illustrated with nearly 1000 images and tables Key points Fully revised new edition presenting latest advances in urology Covers diagnosis and treatment of many diseases and disorders Volume two provides extensive coverage of surgical aspects Previous edition published in 2003

**Campbell-Walsh Urology 11th Edition Review** W. Scott McDougal, MD, MA (Hon,Alan J. Wein,Louis R. Kavoussi, MD,MBA,Alan W. Partin, MD, PhD,Craig A. Peters, MD, FACS, FAAP,2015-12-01 Following the same chapter structure as the authoritative Campbell Walsh Urology 11th Edition this trusted review covers all the core material you need to know for board exam preparation and MOC exams Drs W Scott McDougal Alan J Wein Louis R Kavoussi Alan W Partin and Craig A Peters provide more than 3 000 multiple choice questions with detailed answers that help you master the most important elements in urology while interactive questions self assessment tools an extensive image bank and more are available on Expert Consult Prepare for the written boards and MOC exams with the most reliable efficient review available from the same team that has made Campbell Walsh Urology the most trusted clinical reference in the field Stay up to date with new topics covered in the parent text including evaluation and management of men with urinary incontinence minimally invasive urinary diversion laparoscopic and robotic surgery in children and much more Get a thorough review and a deeper understanding of your field with more than 3 000 multiple choice questions and detailed answers now with new highlighted must know points in the answer explanations Quickly review just before exams with help from new Chapter Reviews that detail key information in a handy list format Benefit from an increased focus on pathology and imaging including updates to conform pathology content to the new American Board of Urology requirements Wong's Nursing Care of Infants and Children - E-Book Marilyn J. Hockenberry,David Wilson,2018-10-01 Wong s Nursing Care of Infants and Children E Book

*Clinical Pediatric Urology* A. Barry Belman, Lowell R. King, Stephen A. Kramer, 2001-11-15 The fourth edition of this internationally acclaimed seminal textbook on the subject of clinical pediatric urology is completely updated World renowned experts in the field present state of the art developments in all areas of clinical pediatric urology from diagnosis to treatment and from theory to practice *Clinical Pediatric Urology* is clinical in orientation and practical in presentation covering every illness diagnostic method and appropriate treatment in pediatric urology from the embryo onwards Each chapter is lavishly illustrated with full color photographs and medical artwork Tables graphs and charts lend further support to the detailed and comprehensive text all in a single easily accessed volume This is a useful and informative reference for students and specialists alike

**Maternal Child Nursing Care - E-Book** Shannon E. Perry, Marilyn J. Hockenberry, Deitra Leonard Lowdermilk, David Wilson, 2013-10-01 New and consolidated content on pain assessment and management focuses on this key aspect of pediatric nursing Updated content on evidence based practice illustrates how current research can be used to improve patient outcomes The latest information in the field is included throughout including expanded coverage of the late preterm infant and fetal heart rate pattern identification

**Wong's Essentials of Pediatric Nursing - E-Book** Marilyn J. Hockenberry, David Wilson, Cheryl C Rodgers, 2016-09-01 NEW Updated content throughout notably methods of measuring competency and outcomes QSEN and others ambiguous genitalia pediatric measurements guidelines and standards as defined by the American Academy of Pediatrics and clear definitions of adolescent and young adult keeps you up to date on important topic areas NEW The Child with Cancer chapter includes all systems cancers for ease of access NEW and UPDATED Case Studies now linked to Nursing Care Plans to personalize interventions while also providing questions to promote critical thinking

*Current Catalog* National Library of Medicine (U.S.), 1993 First multi year cumulation covers six years 1965 70

*Kidney Disease and Nephrology Index* , 1977



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