



Original Investigation | Surgery

Effects of a Patient Activation Tool on Decision Making Between Surgery and Nonoperative Management for Pediatric Appendicitis

A Randomized Clinical Trial

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Abstract

IMPORTANCE Strategies to activate and engage patients and caregivers in shared decision-making in the acute-care setting may result in improved outcomes.

OBJECTIVE To determine whether a patient activation tool (PAT) can improve decision-making and patient-centered outcomes among pediatric patients and their caregivers who choose between surgery and nonoperative management for their child's appendicitis.

DESIGN, SETTING, AND PARTICIPANTS This single-blind, randomized clinical trial collected data from a single tertiary children's hospital from March 1, 2014, through April 30, 2016, with 1-year follow-up completed on May 1, 2017. Two hundred of 236 eligible children and adolescents aged 7 to 17 years with uncomplicated appendicitis enrolled with their caregivers. After receiving the randomized clinical intervention, caregivers chose surgery or nonoperative management. Data were analyzed from March 1, 2014, through May 1, 2017.

INTERVENTIONS Randomization to a scripted standardized surgical consultation that emphasized patient choice or a scripted standardized surgical consultation plus the PAT (a tablet-based tool that presents each treatment, encourages participation in medical decision making, and aims at alleviating decisional uncertainty).

MAIN OUTCOMES AND MEASURES Decisional self-efficacy immediately after treatment decision, health care satisfaction at discharge, and disability days for the child at 1-year follow-up.

RESULTS Among 200 participants (median age, 12 years [interquartile range (IQR), 9-15 years]; 120 [60.0%] male), 98 were randomized to the PAT and 102 to the standardized consultation groups. The percentages choosing nonoperative management were similar (standardized consultation group, 42 of 102 [41.2%]; PAT group, 31 of 98 [31.6%]; $P = .39$). Immediate decisional self-efficacy was similar in the standardized consultation and PAT groups (median score, 100 [IQR, 97.7-100] vs 100 [IQR, 95.5-100]; $P = .03$), which was not significant at the planned significance level of $P = .02$. Total scores on health care satisfaction at discharge were similar (median, 99 [IQR, 94.7-100] vs 98 [IQR, 94.7-100]; $P = .27$). Disability days at 1-year follow-up were also similar (median, 6 [IQR, 2-31] vs 5 [IQR, 2-15]; $P = .67$). No difference in the failure rate of nonoperative management at 1 year (13 of 38 [34.2%] vs 11 of 30 [36.7%]; $P = .99$) or in the rate of complicated appendicitis 30 days after discharge (7 of 68 [10.3%] vs 9 of 71 [12.7%]; $P = .79$) occurred.

(continued)

Key Points

Question Can a patient activation tool improve decision-making and patient-centered outcomes in pediatric patients and their caregivers choosing between surgery and nonoperative management for pediatric appendicitis?

Findings In this randomized-clinical trial that included 200 patient-caregiver dyads, groups randomized to the standardized surgical consultation and the patient activation tool had similarly high scores on immediate decisional self-efficacy and health care satisfaction measures at discharge and no differences in disability days or the failure rate of nonoperative management at 1 year.

Meaning Although a patient activation tool did not improve measures of decision making, pediatric patients and families can effectively participate in an informed shared decision-making process in the acute-care setting.

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June 2, 2019 1/16

Nonoperative Aspects Of Pediatric Surgery

Dane G. Prugh



Nonoperative Aspects Of Pediatric Surgery:

The Nonoperative Aspects of Pediatric Surgery Giulio J. Barbero, 1958 Nonoperative aspects of pediatric surgery with emphasis on surgical neonatology Richard S. Owings, 1973 **Difficult Decisions in Pediatric Surgery** Mark B. Slidell, Marion C.W. Henry, 2025-03-27

Pediatric surgery is a demanding specialty that requires not only technical expertise but also exceptional clinical judgment and adaptability. Pediatric surgeons frequently encounter rare congenital anomalies and unusual surgical problems often requiring them to make difficult decisions with limited precedent. Even well recognized congenital conditions can present in atypical ways necessitating a patient centered approach that may deviate from routine practice. This places a premium on a surgeon's ability to apply broad surgical principles to novel and complex situations tailoring interventions to each child's unique anatomy and pathology. Compounding this challenge is the rapidly evolving literature in pediatric surgery where new techniques, evolving guidelines and emerging technologies continually reshape best practices. Thoughtful interpretation of the literature is essential particularly when the optimal approach to a problem remains unclear or controversial. Pediatric surgeons must not only stay abreast of these developments but also critically analyze and synthesize data to make sound evidence based decisions in the face of uncertainty. The *Difficult Decisions in Surgery* series was developed to address many of these challenges faced by surgeons. To date 10 volumes have been published receiving enthusiastic engagement from the surgical community. These multi authored volumes consist of concise chapters each focused on a specific difficult or controversial decision within a surgical specialty. This series is particularly well suited for pediatric surgeons as it provides insight into difficult decisions faced within the field. The volumes serve as a timely reference for practicing surgeons, trainees and educators emphasizing the ideal approach to selected clinical situations rather than merely reflecting customary care. Recommendations are grounded in published evidence while also incorporating expert opinions and personal experiences helping surgeons navigate complex evolving literature and apply general surgical principles to novel pediatric challenges. The chapters in each volume adhere to a specific format. This approach provides uniformity to the presentations making it possible to identify useful material at a glance: a brief general introduction and description of the Difficult Decision laid out using PICO formatting; a brief description of the literature search process; a summary of available published evidence and discussion of the findings; the author's personal view of the data and approach to the problem; and why they do or don't do things found in the presented literature. The chapter authors were selected from experts around the world; the editors for this volume were selected from among internationally renowned faculty at The University of Chicago and The Johns Hopkins University.

The Psychosocial Aspects of Pediatrics Dane G. Prugh, 1983

Emergency Pediatric Surgery, An Issue of Surgical Clinics Todd A. Ponsky, Aaron P. Garrison, 2016-12-01

This issue of *Surgical Clinics of North America* focuses on Pediatric Surgery and is edited by Drs Todd Ponsky and Aaron Garrison. Articles will include Solid Organ Injury in Pediatric Surgery, Non accidental Trauma in Pediatric Surgery, Head and C spine Evaluation.

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Surgery Peter Mattei, Peter F. Nichol, Michael D. Rollins, II, Christopher S. Muratore, 2016-10-01 The previous edition of this book was based on a simple but essential philosophy provide a practical and up to date resource for the practicing surgeon detailing the specific needs and special considerations surrounding the surgical care of children The second edition of Fundamentals of Pediatric Surgery stays true to the philosophy of the original with several significant enhancements As well as encompassing the most up to date and practical clinical information for the experienced surgeon written in a straightforward narrative style each chapter provides a rationale for the proposed approach based on the scientific evidence available in the literature and the author s personal clinical experience supplies a detailed algorithm or clinical protocol in a graphic format initiates a discussion regarding unanswered questions and proposals for future studies and includes a list of suggested readings Chapters cover in great detail a broad range of pediatric general surgery topics including disorders of all major organ systems of the abdomen and thorax congenital anomalies presenting in the newborn period and a variety of maladies germane to the growing field of fetal surgery The authors also provide authoritative discussions of therapeutic methods and surgical techniques that range from the traditional to the modern including time honored open operations contemporary minimally invasive interventions and emerging technologies such as single site and robotic surgery Written by experts in the field Fundamentals of Pediatric Surgery Second Edition is a definitive source of readily available clinical information that residents fellows or attending surgeons can use to take care of actual patients in real time

Advances in Pediatrics, E-Book 2022 Carol D. Berkowitz, 2022-08-27 In this issue guest editors bring their considerable expertise to this important topic Provides in depth reviews on the latest updates in the field providing actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create these timely topic based reviews

Nonoperative Aspects of Pediatric Surgery Richard S. Owings, 1973-01-01 [Nursing Care of the General Pediatric Surgical Patient](#)

Barbara Vollenhover Wise, 2000 While managed care has reduced the length of hospital stays for pediatric as well as older patients nurses still mercifully recognize the unique needs of children undergoing surgery Following chapters on psychological preparation of the patient and their parents and other special considerations s

Appendicitis - Causes and Treatments Elroy Weledji, 2023-06-28 Acute appendicitis is considered to be the most common surgical emergency with a lifetime risk of 7% Appendicitis Causes and Treatments is a comprehensive collection of works by experts who possess practical experience in the management of appendicitis This publication is particularly relevant given that during the Covid 19 pandemic controversy over the management of appendicitis was highlighted The book addresses the epidemiology and etiology of appendicitis laparoscopic versus open appendectomy appendicitis in childhood neglected appendicitis and perioperative nursing care Furthermore it discusses the evaluation and indications for surgical or non surgical management antibiotherapy or both Patient selection is a critical determinant of non operative management given the shortcomings of this

approach which requires active close observation to detect any deterioration indicating the need for an appendicectomy

Pediatric Trauma David Wesson, Arthur Cooper, L.R. Tres Scherer, Steven Stylianos, David W. Tuggle, 2005-09-29 The definitive text on the state of the art in pediatric trauma care this reference offers detailed descriptions of procedures in system design pediatric resuscitation supportive care diagnostic imaging pain management and transfusion therapy by experts with hands on experience in the field Providing evidence based recommendations as well a Pediatric Surgery E-Book Arnold G. Coran, N. Scott Adzick, Thomas M. Krummel, Jean-Martin Laberge, Robert Shamberger, Anthony Caldamone, 2012-01-30 Pediatric Surgery 7th Edition edited by Arnold G Coran Anthony Caldamone N Scott Adzick Thomas M Krummel Jean Martin Laberge and Robert Shamberger features comprehensive up to date guidance on all aspects of childhood surgery including congenital malformations tumors trauma and urologic problems Apply the latest developments in fetal surgery adolescent bariatric surgery minimally invasive surgery in children and tissue engineering for the repair of congenital anomalies such as the separation of conjoined twins Get comprehensive coverage of cutting edge technology in pediatric surgical diseases including imaging concepts minimally invasive techniques robotics diagnostic and therapeutic advances and molecular biology and genetics Find information quickly and easily with an intuitive organization by body region and organs Apply the guidance of world renowned experts in pediatric surgery Access the fully searchable text online at www.expertconsult.com Stay current on recent developments in fetal surgery adolescent bariatric surgery minimally invasive surgery in children and tissue engineering for the repair of congenital anomalies such as the separation of conjoined twins Master the latest surgeries available for fetal and neonatal patients and provide life saving options at birth Tap into the expertise of new editors who bring fresh perspectives to cutting edge techniques Reports of the Ross Pediatric Research Conference, 1977 **Pediatric Trauma** David E. Wesson, Bindi Naik-Mathuria, 2017-05-18 Injuries cause more than half of all childhood deaths and a large proportion of pediatric trauma care is provided by non pediatric specialists This book provides an update of current practice backed by evidence based recommendations in four sections 1 Trauma systems for children including epidemiology organization of pediatric trauma care disaster planning and systems for mass pediatric casualties and community injury prevention programs 2 General principles of resuscitation and supportive care 3 Specific injuries commonly seen in children including from child abuse 4 Rehabilitation communication long term outcomes and performance improvement methods to monitor outcomes

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