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Using the ACS NSQIP Surgical Risk Calculator for surgical education and quality improvement

By [Jonathan S. Abelson, MD](#), [Heather L. Yeo, MD, MHS, MBA, MS, FACS](#), [Alfons Pomp, MD, FACS](#), [David Fehling, MA](#) and [Fabrizio Michelassi, MD, FACS](#)
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The [American College of Surgeons National Surgical Quality Improvement Program \(ACS NSQIP®\)](#) [Surgical Risk Calculator](#) was developed in 2013 as a decision support tool to "provide accurate, patient-specific risk information to guide both surgeon decision making and informed consent."¹⁻³ Since the introduction of the ACS NSQIP Surgical Risk Calculator, several studies have been published validating its use for a range of surgical procedures.⁴⁻⁷ Little has been published, however, about how this important tool may also be used for surgical education in addition to quality improvement in clinical practice.

This article describes our experience with incorporating the ACS NSQIP Surgical Risk Calculator (see Figure 1) into weekly morbidity and mortality (M&M) conferences at the department of surgery, New York Presbyterian Hospital Weill Cornell Medicine, NY.

Figure 1. ACS NSQIP Surgial Risk Calculator

Nsqip Operations Manual

**David M. Gershenson, Gretchen M
Lentz, Rogerio A. Lobo**



Nsqip Operations Manual:

A TEXTBOOK ON QUALITY IMPROVEMENT AND PATIENT SAFETY IN ANESTHESIA AND SURGICAL CARE

Dr. Zuber M. Shaikh, 2019-01-01 This textbook is divided into seven units as follows Unit I Anesthesiology Patient Safety and Quality Improvement Unit II Education Training Equipment Supplies and Implants Unit III Pre Operative Anesthesia Evaluation Consents and NPO Unit IV Anesthesia Care Plan Unit V Anesthesia Care Unit VI Anesthesia Sedation and Surgical Report Unit VII On Call and Pain Management This text book is a very unique guide to implement the national and international healthcare accreditation standards in the Anesthesia and Surgical Care for providing the best quality healthcare services for the excellent outcomes and patient safety *U.S. Department of Veterans Affairs Credentialing and Privileging* United States. Congress. House. Committee on Veterans' Affairs. Subcommittee on Oversight and Investigations, 2008

Clinical Research Methods for Surgeons David F. Penson, 2007-11-06 With his keen analytical mind and penchant for organization Charles Darwin would have made an excellent clinical investigator Unfortunately for surgery his early exposure at Edinburgh to the brutality of operations in 1825 convinced him to reject his father's plan for his career and pursue his interest in nature His subsequent observations of how environmental pressures shaped the development of new species provided the essential mechanism to explain evolution and the disappearance of those species that failed to adapt Today surgeons face the same reality as new technology progressive regulation by government and payers medico legal risks and public demands for proof of performance force changes in behavior that our predecessors never imagined We know that surgeons have always prided themselves on accurate documentation of their results including their complications and deaths but observational studies involving a single surgeon or institution have given way to demands for controlled interventional trials despite the inherent difficulty of studying surgical patients by randomized blinded techniques That is why this book is so timely and important In a logical and comprehensive approach the authors have assembled a group of experienced clinical scientists who can demonstrate the rich variety of techniques in epidemiology and statistics for reviewing existing publications structuring a clinical study and analyzing the resulting data *The SAGES Manual* Ninh T. Nguyen, Eric DeMaria, Sayeed Ikramuddin, Matthew M. Hutter, 2008-11-24 Bariatric surgery is an increasingly common procedure but far from an easy one Patient assessment and selection must be careful Complications can arise quite often Training levels can be uneven among clinicians The SAGES Manual of Bariatric Surgery bridges the gaps and serves as a practical and concise starting point for the surgeon adding these procedures to his skill set **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 **The ASCRS Manual of Colon and Rectal Surgery** Scott R. Steele, Tracy L. Hull, Neil Hyman, Justin A. Maykel, Thomas E. Read, Charles B. Whitlow, 2019-02-06 Colorectal Surgery has continued to experience

tremendous growth in both the community and academic settings over the past few years. The recent increase in demand for colorectal specialists has been fueled by an overwhelming number of applications to fellowship training programs resulting in some of the most coveted and competitive positions. Furthermore, the accumulation of experience, knowledge, and wisdom from pioneers in the field combined with major recent technological advances has transformed the clinical management of diseases of the colon and rectum. Colorectal Surgeons have embraced advances ranging from minimally invasive approaches for complex problems to novel training methods for future generations. Additionally, we have spearheaded innovations in the management of colorectal cancer, pelvic floor disorders, diverticulitis, inflammatory bowel disease, and anorectal conditions. Despite these improvements, there remains a seemingly never-ending mixture of complex patient disease processes and complications resulting from the care of these patients. Even in cases where the technical challenges were managed successfully, complications or poor function may result in dramatic, life-long consequences, reduced quality of life, as well as having economic implications. The American Society of Colon and Rectal Surgeons (ASCRS) is the premiere professional organization of Colon and Rectal Surgeons. Three editions of the ASCRS Textbook of Colon and Rectal Surgery have been published and have proved to be extremely valuable for their wealth of general information and knowledge, providing not only background information but also specifics regarding the more complex situations that surgeons who treat patients with colorectal disease experience on a regular basis. An ASCRS manual was produced in 2009 and 2014, each accompanying their original textbooks. This has been formed by abstracting the textbook into a bullet format; all figures and most tables were retained. The 3rd edition of the Textbook published by Springer included completely new chapters and authors. This 3rd edition of the Manual is indicated to conform to the new edition of the Textbook and incorporate newer information in the field of colon and rectal surgery. This Manual will serve as a very useful resource for physicians and researchers dealing with diseases of the colon and rectum. It will provide a concise yet comprehensive summary of the current status of the field that will help guide education, patient management, and stimulate investigative efforts. All chapters were written and abstracted by experts in their fields and will include the most up-to-date scientific and clinical information. The SAGES Manual of Quality, Outcomes and Patient Safety John R. Romanelli, Jonathan M. Dort, Rebecca B. Kowalski, Prashant Sinha, 2022-06-06. In this thoroughly revised second edition of the frequently downloaded manual, The SAGES Manual of Quality Outcomes and Patient Safety, a panel of experts update and expand their survey of the many factors that influence quality in the world of surgery: surgical outcomes and threats to patient safety. Among the highlights include a section devoted to threats to quality and outcomes and safety, such as surgeon wellness and burnout, disruptive behavior, second victims, the surgeon with declining skills, and maintaining quality in the setting of a crisis. Another all-new section focuses on surgical controversies, such as whether or not to use robotic surgical technology and whether or not it influences surgical outcomes, whether or not routine cholangiography reduces the common bile duct injury rate, whether or not having a consistent operating room team

influences surgical outcomes and whether a conflict of interest truly influences surgical quality Further this manual updates chapters on surgical simulation teamwork and team training teleproctoring mentoring and error analysis State of the art and readily accessible The SAGES Manual of Quality Outcomes and Patient Safety Second Edition will offer physicians strategies to maintain surgical quality in a rapidly changing practice environment the tools they require to succeed **The SAGES Manual of Colorectal Surgery** Patricia Sylla, Andreas M. Kaiser, Daniel Popowich, 2019-10-17 This book provides essential didactic content for the SAGES University Masters Program Colorectal Surgery Curriculum Surgeons seeking to complete the competency proficiency or mastery curriculum of the MASTERS Colorectal Pathway for a particular anchoring colorectal procedure will find relevant educational content in this SAGES Manual Written by experts in the field each chapter provides detailed guidance on preoperative and peri procedural considerations for right and left elective and emergency colorectal resections for both benign and malignant pathologies Technical pearls and strategies to manage pitfalls and complications are also extensively reviewed along with detailed guidance for both laparoscopic and robotic procedures The SAGES Manual of Colorectal Surgery provides a wealth of practical guidance to surgeons along their journey to progress from competency to mastery in various minimally invasive approaches to colorectal surgery Surgeons as Educators Tobias S. Köhler, Bradley Schwartz, 2017-11-11 This book is designed to provide the reader with comprehension of the principles of contemporary surgical education and skills to design and implement effective curricula that include learning theory needs assessments curriculum development effective teaching methods valid and reliable assessment of learners and comprehensive program evaluation This text will provide a comprehensive state of the art review of this field and will serve as a valuable resource for anyone wishing to become a better educator regardless of the level of the trainee The book will review how people learn and how to vary teaching methods accordingly It will cover curriculum planning measurement and performance assessment teaching residents to teach coaching promoting professionalism teaching surgeons to lead and burnout It will aid in identifying differences in generations and how to select students and residents who will thrive in your program Specifics on teaching in the operating room use of new technologies and honing of feedback skills will be addressed The effect of duty hours and due process for struggling learners will also be addressed as well as preparing residents for beyond residency Specifics on how to set up simulation centers and utilize this technology will also be discussed These are a few of the topics which will prepare the reader to excel in education and thus be able to positively influence patient care well beyond that of any one individual The SAGES Manual of Hernia Surgery S. Scott Davis, Jr., Gregory Dakin, Andrew Bates, 2018-11-23 This edition of the SAGES Manual of Hernia Surgery aligns with the current version of the new SAGES University MASTERS Program Hernia Surgery pathway This manual serves as a curriculum for participants in the MASTERS Program as well as a modern text on hernia surgery for all learners Hernia surgery is one of the fastest developing fields in general surgery today There have been rapid advancements in hernia techniques in recent years making most prior texts on the subject obsolete

These advancements involve significant evolution in both the techniques and strategies for hernia repairs as well as the tools used to achieve these means This text thoroughly addresses the multiple component separation techniques and options for locations of mesh repairs It also discusses the revolution of hernia repair being facilitated by robotic surgery which allows increased access to minimally invasive techniques for surgeons and thus increased access to minimally invasive surgical repairs for patients This manual will be a valuable resource for interested surgeons to understand the variety of potential approaches to individual hernias and to individually tailor the care of the hernia patient *The SAGES Manual for Navigating a Successful Military Surgical Career* Andrew T. Schlussel, Danielle B. Holt, Robert B. Lim, Tamara J. Worlton, E. Matthew Ritter, 2025-07-02 The aim of this manual is to offer a comprehensive framework for both present and future military surgeons enabling them to effectively navigate and build a successful career within the military while also providing them with transferable skills upon completion of their military service The military healthcare system operates within a unique framework with distinct challenges and opportunities By acquiring knowledge and insights into the intricacies of military career paths surgeons can make informed decisions about assignments promotions and professional development Navigating an Army Air Force Navy or Reserve career requires an understanding of the organizational structures consultant roles and specific requirements of each service branch Additionally being aware of opportunities for advanced education leadership development and operational assignments enables surgeons to develop a career trajectory aligned with their goals and aspirations Presently there is not a sole source document either in the military or civilian sectors that allows easy access and references to the multiple opportunities afforded to military surgeons or an understanding of life as a surgeon on active duty Furthermore this text provides context to civilian organizations administrative personnel recruiting departments and family members that interact with or assist in making important decisions for military surgeons This manual features insight and guidance from senior leaders of our Armed Forces both past and present who have excelled in academic operational and clinical surgical careers By providing a reference for successfully navigating a military career this will not only enhance the professional growth of a surgeon but also ensure the delivery of high quality healthcare to our service members and beneficiaries both domestic and abroad **The Trauma Manual** Andrew B. Peitzman, 2019-07-29 Covering all areas of trauma critical care and emergency surgery The Trauma Manual Trauma and Acute Care Surgery 5th Edition brings you fully up to date with recent changes in the field This pocket manual is an indispensable resource for everyone on the trauma acute care team with practical easy to read coverage of the wide range of patients seen daily with urgent presentation whether from injury emergency general surgical disease or a major complication This user friendly manual is one that every trauma surgeon surgical resident surgical critical care specialist emergency medicine physician and emergency or trauma nurse will want to keep close at hand for daily use *The SAGES Manual of Foregut Surgery* Jayleen Grams, Kyle A. Perry, Ali Tavakkoli, 2019-04-12 The field of benign foregut surgery continues to evolve with new diagnostic methods and treatment

modalities The text lays the foundation in understanding the foregut through review of the anatomy and physiology followed by subsequent chapters focusing on the diagnosis and management of specific benign diseases of the foregut gastroesophageal reflux disease and diaphragmatic hernia Barrett's esophagus disorders of esophageal dysmotility benign esophageal and gastric tumors peptic ulcer disease and gastric outlet obstruction and gastroparesis Written by experts each of these sections addresses the evaluation and management of the disease process technical conduct of the most common endoscopic and surgical procedures postoperative management including complications and revisional operations Additionally expert commentary will serve to highlight and clarify controversies in the field The SAGES Manual of Foregut Surgery provides a comprehensive state of the art review and will serve as a valuable resource for clinicians and surgeons

Comprehensive Gynecology David M. Gershenson, Gretchen M. Lentz, Rogerio A. Lobo, 2021-05-08 With its trademark clear concise writing style and evidence based focus Comprehensive Gynecology 8th Edition remains your 1 choice for practical in depth coverage of any women's health issue you're likely to encounter It covers all key issues in gynecology now fully updated to include new information on topics such as laparoscopy and innovations in robotic surgery reversible contraception and advancements in treating endometriosis For residents specialists primary care doctors and other healthcare providers Comprehensive Gynecology is an easy to access source of trusted information for everyday practice Includes helpful features such as key references and terms key points at the end of each chapter summary boxes for quick reference and new bolded text to highlight the most important concepts Features newly improved artwork a more cohesive easy to navigate design throughout and more clinical algorithms Contains hundreds of illustrations and tables anatomical figures radiographs and photographs as well as 20 videos that address topics such as Pap smear techniques hysteroscopic metroplasty and endometriosis of the bladder Brings you up to date with the latest applications in diagnostic and interventional ultrasound issues in infertility the latest research in menopause and other essential aspects of today's practice

Essentials of Interventional Techniques in Managing Chronic Pain Vijay Singh, Frank J.E. Falco, Alan D. Kaye, Amol Soin, Joshua A. Hirsch, 2024-05-28 This comprehensive review covers the full and latest array of interventional techniques for managing chronic pain Chapters are grouped by specific treatment modalities that include spinal interventional techniques non spinal and peripheral nerve blocks sympathetic interventional techniques soft tissue and joint injections and implantables This second edition features new chapters covering challenges with opioid therapy impact of COVID 19 and spinal interventional techniques Practical step by step and evidence based guidance is given to each approach in order to improve the clinician's understanding Innovative and timely Essentials of Interventional Techniques in Managing Chronic Pain is a critical resource for anesthesiologists neurologists and rehabilitation and pain physicians Manual of Infection Prevention and Control Nizam Damani, 2019 It has been estimated that in developed countries up to 10% of hospitalized patients develop infections every year Not only is there a substantial cost to healthcare systems but some healthcare

associated infections HCIAAs can be fatal Since the majority of HCIAAs are preventable reducing HCIAAs is now considered to be an integral part of patient safety and quality of care provided by all healthcare institutions worldwide Unlike other books on infection control the main strength of this book is to provide clear up to date and practical guidance in infection control in an easy to read format which can act as a quick source of reference on all aspects of HCIAA for healthcare workers who are either directly or indirectly involved in prevention and control of HCIAAs Although the book s main audience is infection control practitioners such as doctors nurses public health physicians it is also a valuable reference for environmental health officers health educators practice managers in GP surgeries and health service managers

The SAGES Manual Ethics of Surgical Innovation Steven C. Stain,Aurora D. Pryor,Phillip P. Shadduck,2016-05-04 This text provides a comprehensive review of the ethical issues involved with the development evaluation and introduction of new treatments of gastrointestinal diseases How several landmark surgical innovations were developed are described to show the challenges faced and the ethical dilemmas these innovators dealt with The challenges of dealing with regulatory issues and how to work with industry partners and investors when working on a new therapy is described Once a new technology has been brought to the market standards need to be developed regarding the training credentialing and adoption of the new technology There are insufficient standards of how to balance the desire to provide patients the latest therapy with the obligation that patients receive informed consent about the new technology and the relationship that the physician may have had with product development The book describes the national perspective of paying for new technology and provides one insurance company s approach to the introduction of innovative therapy The Sages Manual Ethics of Surgical Innovation will be a resource for surgeons researchers and health policy personnel to understand the ethical issues related to the development introduction and adoption of innovative therapies for gastrointestinal diseases Although the context for discussion is the application of innovation to gastrointestinal disease the ethical issues are applicable to any discussion of innovative medical or procedural therapies

The SAGES Manual of Fluorescence-Guided Surgery Nova Szoka,David Renton,Santiago Horgan,2023-11-27 Fluorescence guided surgery FGS is defined as a medical imaging technique that uses a fluorescent dye or a near infrared emitting light source to identify anatomic structures during surgical procedures In 2020 alone over 1200 academic articles were published on the topic of fluorescence guidance surgery a sign that this modality is making significant inroads into surgical practice The use of near infrared imaging and FGS is a rapidly growing modality allowing surgeons to see more intraoperatively enhance surgical precision and improve surgical decision making and patient outcomes This manual provides a comprehensive state of the art review of this field and will serve as a valuable resource for clinicians surgeons and researchers with an interest in fluorescence guided surgery guiding patient management and stimulating investigative efforts After initial chapters discussing the history of FGS and the current platforms and devices it presents the most up to date data regarding the use of FGS in multiple surgical fields colorectal hepatic endocrine reconstructive pediatric among

others as well as in the treatment of specific conditions such as burns Chapters are generously illustrated with full color figures and intraoperative photographs and selected chapters include video segments Access to a comprehensive resource such as this is currently limited by the relatively new inroads that fluorescence guided technology has made into surgery The SAGES Manual of Fluorescence Guided Surgery fills this gap in the literature The SAGES Manual of Acute Care Surgery David Renton,Robert Lim,Alberto S. Gallo,Prashant Sinha,2019-08-16 This book provides a concise summation of current operative decision making and techniques for situations faced by the on call general surgeon This manual covers pertinent topics such as minimally invasive surgery in the trauma setting surgical emergencies in the bariatric patient and treatment of emergencies in pregnancy cirrhotics and anti coagulated patients The experts at SAGES pooled their knowledge and created this manual to describe the most up to date treatment options for the emergent surgical patient The SAGES Manual of Acute Care Surgery aligns with the new SAGES UNIVERSITY MASTERS Program and supplements the Master s Program Acute Care Pathway Its goal is to help educate surgeons to bring the optimum care to the patients that they are called to see in their emergency rooms and to help surgeons progress from the competent to the proficient and finally to the mastery level

The SAGES Manual of Evolving Techniques in Pancreatic Surgery Eugene P. Ceppa,Kevin M. El-Hayek,Melissa E. Hogg,Nicolò Pecorelli,2025-03-29 Management of diseases of the pancreas is varied and complex and the diagnoses leading to surgical consideration dictate what technical approaches are feasible and safe Over the last decade this has changed considerably and as a result the necessity of documenting the updated surgical approaches is not only warranted yet paramount to surgeons This manual presents a contemporary description of pancreatic surgery The classic open approach maintains relevancy yet refinement in technique has improved outcomes The application of laparoscopic techniques provides improvement in recovery when applied appropriately yet further technological innovations continue to improve this approach Further innovation and research in robotic percutaneous and endoscopic techniques have broadened the horizon of the management of pancreatic disease Chapters in this manual address surgical therapy of benign and malignant disease of the pancreas including management of acute and chronic pancreatitis as well as benign premalignant and malignant pancreatic neoplasms and will focus on specific disease processes and the various approaches that are currently applied Each of the chapters addresses patient selection pre operative considerations technical conduct of the procedures and minimizing morbidity A brief review of the existing literature addressing the particular topic is included in each chapter with extensive illustrations and selected video clips

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