

## Nsqip Certification Test Review

This book provides up-to-date resources and examples of outcome measures, tools and methods that can be used by APNs in their quest to keep pace with new developments in the rapidly expanding field of outcome measurement. The chapter authors, recognized expert practitioners, offer invaluable insight into the process of conducting outcomes assessments in all APN practice, including the clinical nurse, nurse practitioner, certified registered nurse anesthetist and certified nurse midwife practice specialties. Detailed figures, tables, and examples of outcome studies from actual research in APN practice make this an essential resource for evaluating the true impact the advanced practice nurse has on the delivery and fulfillment of care.

This unique book provides clinicians and administrators with a comprehensive understanding of perioperative hemodynamic monitoring and goal directed therapy, emphasizing practical guidance for implementation at the bedside. Successful hemodynamic monitoring and goal directed therapy require a wide range of skills. This book will enable readers to:

- Detail the rationale for using perioperative hemodynamic monitoring systems and for applying goal directed therapy protocols at the bedside
- Understand the physiological concepts underlying perioperative goal directed therapy for hemodynamic management
- Evaluate hemodynamic monitoring systems in clinical practice
- Learn about new techniques for achieving goal directed therapy
- Apply goal directed therapy protocols in the perioperative environment (including emergency departments, operating rooms and intensive care units)
- Demonstrate clinical utility of GDT and hemodynamic optimization using case presentations.

Illustrated with diagrams and case examples, this is an important resource for anesthesiologists, emergency physicians, intensivists and pulmonologists as well as nurses and administrative officers.

The American Association for the Surgery of Trauma is dedicated to the discovery, dissemination, implementation, and evaluation of knowledge related to acute care surgery (trauma, surgical critical care, and emergency general surgery) by fostering research, education, and professional development in an environment of fellowship and collegiality. Developed by the American Society for Metabolic and Bariatric Surgery (ASMBS), The ASMBS Textbook of Bariatric Surgery provides a comprehensive guide of information dealing with the ever evolving field of bariatric surgery. Volume 1: Bariatric Surgery covers the basic considerations for bariatric surgery, the currently accepted procedures, outcomes of bariatric surgery including long-term weight loss, improvement and resolution of comorbidities and improvement in quality of life. A section focuses on revisional bariatric surgery and new innovative endoscopic bariatric procedures. Other special emphasis given to the topics of metabolic surgery and surgery for patients with lower BMI (30-35). Volume II: Integrated Health is divided into 3 sections: bariatric medicine, psychosocial and nutritional aspects of bariatric surgery. The first section deals with the psychosocial issues associated with morbid obesity. The second section deals with the role of bariatric physicians in preoperative and postoperative support of the bariatric patients. The nutritional section discusses the preoperative and postoperative nutritional support for the bariatric patient. The ASMBS Textbook of Bariatric Surgery will be of great value to surgeons, residents and fellows, bariatric physicians, psychologists, psychiatrists and integrated health members that manage the morbidly obese.

Encompassing all anesthesia topics from basic to advanced, Miller's Anesthesia Review, 3rd Edition, by Drs. Lorraine M. Sdrales and Ronald D. Miller, is an ideal study guide to assess your knowledge and deepen your understanding. This easy-to-use resource is conveniently cross-referenced to the newest edition of Miller & Pardo: Basics of Anesthesia. Hundreds of questions cover everything from physiologic and pharmacologic principles through anesthetic machine systems, anesthetic delivery in a variety of settings, and anesthesia administration for a full range of disease states. Corresponds to Miller & Pardo's Basics of Anesthesia to help you make the most of your study time and learn more efficiently. Provides immediate feedback with detailed answers to each question at the end of every chapter, cross-referenced to specific pages in Basics of Anesthesia. Includes new chapters on Neurotoxicity of Anesthesia, Palliative Care, Sleep Medicine, and Perioperative Surgical Home. Brings you fully up to date with revised questions throughout, progressing logically from basic to advanced topics. Covers hot topics such as Implantable Cardiac Pulse Generators, Anesthesia for Robotic Surgery, Perioperative Blindness, Human Performance and Patient Safety, and Civil, Chemical, and Biological Warfare.

This book provides a comprehensive overview of contemporary evidence-based management of urothelial carcinoma. The first part of the book is devoted to urothelial carcinoma of the bladder and includes detailed description of the diagnosis and treatment of non-muscle-invasive, muscle-invasive, and advanced or metastatic disease. Attention then turns to upper tract urothelial carcinoma (UTUC), with individual chapters on diagnosis, nephron-sparing surgery, nephroureterectomy, and treatment of advanced or metastatic UTUC. The text is supported by many illustrations, photos, and tables that clarify management, and surgical video clips are also available to readers. The book will be a welcome addition to the literature as progress continues to be made in understanding the exact pathophysiology of urothelial carcinoma and in developing more effective diagnostic and therapeutic modalities. It will be useful both to researchers in the field of urothelial carcinoma and to clinicians, including especially residents and fellows.

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)

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.

Practical resource for all healthcare professionals involved in day-to-day management of operating rooms of all sizes and complexity.

This practical, useful guide is for all clinicians involved in perioperative care of the geriatric patient undergoing surgery with anesthesia.

"This brilliantly assembled expert compendium provides a much-needed guide for the practical application of anesthesiology in medical practice in the most bereft underdeveloped and violence-afflicted regions of the globe." —Seymour Topping, Professor Emeritus of International Journalism, Columbia University This is a comprehensive guide to the role of anesthesiologists in medical missions. In their capacity as perioperative physicians, anesthesiologists improve the safety and efficacy of surgical interventions for underserved patients in low- and middle-income countries around the world. Contributions from international experts in global health provide essential historical context, practical medical and surgical considerations for planning missions, and scenarios of "on the ground" implementation of care. The final section considers anesthesiology education in the context of global health. This is an encompassing and eye-opening resource for trainees and physicians considering participating in a medical mission and students and faculty of global health.

New York Times bestseller Business Book of the Year--Association of Business Journalists From the New York Times bestselling author comes an eye-opening, urgent look at America's broken health care system--and the people who are saving it--now with a new Afterword by the author. "A must-read for every American." --Steve Forbes, editor-in-chief, FORBES One in five Americans now has medical debt in collections and rising health care costs today threaten every small business in America. Dr. Makary, one of the nation's leading health care experts, travels across America and details why health care has become a bubble. Drawing from on-the-ground stories, his research, and his own experience, *The Price We Pay* paints a vivid picture of the business of medicine and its elusive money games in need of a serious shake-up. Dr. Makary shows how so much of health care spending goes to things that have nothing to do with health and what you can do about it. Dr. Makary challenges the medical establishment to remember medicine's noble heritage of caring for people when they are vulnerable. *The Price We Pay* offers a road map for everyday Americans and business leaders to get a better deal on their health care, and profiles the disruptors who are innovating medical care. The movement to restore medicine to its mission, Makary argues, is alive and well--a mission that can rebuild the public trust and save our country from the crushing cost of health care.

This pocket book succinctly describes 318 errors commonly made by attendings, residents, interns, nurses, and nurse-anesthetists in the intensive care unit, and gives practical, easy-to-remember tips for avoiding these errors. The book can easily be read immediately before the start of a rotation or used for quick reference on call. Each error is described in a short, clinically relevant vignette, followed by a list of things that should always or never be done in that context and tips on how to avoid or ameliorate problems. Coverage includes all areas of ICU practice except the pediatric intensive care unit.

"This project aimed to collect and critically review the existing evidence on practices relevant to improving patient safety"--P. v.

Regional health care databases are being established around the country with the goal of providing timely and useful information to policymakers, physicians, and patients. But their emergence is raising important and sometimes controversial questions about the collection, quality, and appropriate use of health care data. Based on experience with databases now in operation and in development, *Health Data in the Information Age* provides a clear set of guidelines and principles for exploiting the potential benefits of aggregated health data--without jeopardizing confidentiality. A panel of experts identifies characteristics of emerging health database organizations (HDOs). The committee explores how HDOs can maintain the quality of their data, what policies and practices they should adopt, how they can prepare for linkages with computer-based patient records, and how diverse groups from researchers to health care administrators might use aggregated data. *Health Data in the Information Age* offers frank analysis and guidelines that will be invaluable to anyone interested in the operation of health care databases.

The only textbook bearing the imprimatur of the American College of Surgeons, *ACS Surgery 7* provides a comprehensive reference work across all stages of surgical training and practice, from resident to experienced practitioner. *ACSS7* covers thoroughly medical knowledge and patient care, as well as other competencies- professionalism, interpersonal communication, systems-based practice, and practice-based learning and improvement. The illustrations, diagrams, tables, and algorithms enhance and clarify concepts outlined in the text. In addition, monthly updating online means the work is continually renewed and current on an ongoing basis.

Perioperative Medicine uses a concise, highly practical, bulleted format designed to ensure rapid comprehension of key concepts and reinforce the reader's understanding of complex topics in perioperative medicine. It contains authoritative, up-to-date coverage of the most essential concepts in perioperative care from preoperative risk assessment to postoperative follow-up. The Editor and his contributors use their expert insight and experience to provide an in-depth review of comorbid conditions, patient and surgery-specific risk assessment, and common postoperative complications. This new book reviews recent developments in the field, including published guidelines, and emphasizes an evidence-based, cost-effective approach designed to ensure quality, patient safety, and optimal outcomes. It is intended for use by hospitalists, general internists and subspecialists as well as anesthesiologists, surgeons, and residents in training who are caring for patients before and after surgery.

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.

This book offers a comprehensive, up-to-date overview of optimal postoperative care in patients who have undergone thoracic surgery and discusses challenging issues that are of interest not only in the context of thoracic surgery but also more generally within the fields of anesthesia, intensive care, and pain medicine. The coverage ranges, for example, from use of non-invasive ventilation, extracorporeal membrane oxygenation, and new monitoring devices to fluid management, pain control, and treatment of arrhythmias. A key feature of the book is the exceptionally attractive list of authors, who represent the most authoritative experts on the topics that they address. The approach is appropriately multidisciplinary, acknowledging that in many centers thoracic anesthesiologists are responsible for care during the postoperative period. This book is exceptional in being devoted solely to postoperative care in thoracic surgery, even though the difficulties involved in thoracic operations sometimes exceed those of cardiac surgery, especially in the postoperative period.

This is a compact, single-source guide to regional anesthesia. Chapters are authored by regional anesthesia fellowship directors and fellows to insure maximum practicality and up-to-date coverage. Essentials of Regional Anesthesia covers all anatomical regions as well as the unique considerations in patients with chronic pain, obstetric patients, pediatric patients, and patients treated in the outpatient setting. A common chapter format makes it easy to find information quickly, and extensive illustrations enhance the text. Stay current with Essentials of Regional Anesthesia, and stay ahead with these helpful features:

- Ultrasound incorporated into each block
- Extremely practical focus
- More than 400 Q & As to test knowledge
- Authored by regional anesthesia fellowship directors and fellows
- Clinical pearls and guidance on complications
- Concise, clinically oriented review of relevant basic science
- Common chapter format for ease of use
- Well illustrated with 350 figures, nearly 200 in color

Prepare yourself for your exams with Miller's Anesthesia Review, 2nd Edition. Packed with hundreds of challenging review questions and answers, this essential study guide is an ideal way to assess and enhance your mastery of the information you need to know, and familiarize yourself with the complete range of essential topics in anesthesia. Easily assess your understanding at any level with chapters that progress from basic to advanced topics. Review the complete range of essential topics in anesthesia, from physiological and pharmacologic principles through anesthetic machine systems, anesthetic delivery in a variety of settings, and anesthesia administration for a full range of disease states. Get immediate feedback with detailed answers to each question at the end of every chapter. Prepare with confidence using the only review source based on the two globally respected anesthesiology references by Dr. Ronald D. Miller. Make the most of your study time and easily supplement any gaps in your knowledge with convenient page references to Miller & Pardo: Basics of Anesthesia, 6th Edition. Get up-to-date information on today's hot topics, including Implantable Cardiac Pulse Generators; Civil, Chemical, and Biological Warfare; Anesthesia for Robotic Surgery; Perioperative Blindness; and Human Performance and Patient Safety. Expand your knowledge with new coverage of TEE and acute and chronic pain.

This book is the first comprehensive, authoritative reference that provides a broad and comprehensive overview of Enhanced Recovery After Surgery (ERAS). Written by experts in the field, chapters analyze elements of care that are both generic and specific to various surgeries. It covers the patient journey through such a program, commencing with optimization of the patient's condition, patient education, and conditioning of their expectations. Organized into nine parts, this book discusses metabolic responses to surgery, anaesthetic contributions, and optimal fluid management after surgery. Chapters are supplemented with examples of ERAS pathways and practical tips on post-operative pain control, feeding, mobilization, and criteria for discharge.

Enhanced Recovery After Surgery: A Complete Guide to Optimizing Outcomes is an indispensable manual that thoroughly explores common post-operative barriers and challenges.

Surgery Review is a comprehensive review presented in a unique format. Topics are introduced with case presentations and relevant diagnostic and management information is then summarized in easy-to-remember capsules with exam pearls interjected throughout. All areas of general surgery are covered, including the subspecialty areas. There is also a section on basic science found on the in-training exam and written boards, and a section of anesthesia, trauma, and critical care. Unlike many other books, General Surgery Review excludes controversial management in order to present an easy-to-remember foundation of knowledge. Thus, the book focuses on "the basics" to provide the reader with a broad command of the field. This title is indispensable to residents studying for in-training exam or boards, and is also popular with practitioners preparing for their recertification exam in general surgery.

The purpose of this report is to present information on how the age structure of the overall population and the composition of the older population in terms of age, sex, race, and Hispanic origin are expected to change over the next four decades. Between 2010 and 2050, the United States is projected to experience rapid growth in its older population. In 2050, the number of Americans aged 65 and older is projected to be 88.5 million, more than double its projected population of 40.2 million in 2010. The baby boomers are largely responsible for this increase in the

older population, as they will begin crossing into this category in 2011. The aging of the population will have wide-ranging implications for the country. As the United States ages over the next several decades, its older population will become more racially and ethnically diverse. Projecting the size and structure, in terms of age, sex, race, and Hispanic origin, of the older population is important to public and private interests, both socially and economically. The projected growth of the older population in the United States will present challenges to policy makers and programs, such as Social Security and Medicare. It will also affect families, businesses, and health care providers.

Recognize market opportunities, master the design process, and develop business acumen with this 'how-to' guide to medical technology innovation. Outlining a systematic, proven approach for innovation - identify, invent, implement - and integrating medical, engineering, and business challenges with real-world case studies, this book provides a practical guide for students and professionals.

Optimal Resources for Surgical Quality and SafetyResources for Optimal Care of the Injured PatientAmer College of SurgeonsSurgical Quality ImprovementSpringer

Fractures of the Facial Skeleton, Second Edition gives a clear, concise and practical overview of the management of maxillofacial injuries. This new edition has been fully updated to include recent developments and improvements in facial trauma management, with expanded sections on emergency and early treatment, soft tissue injuries and major maxillofacial injuries. Written by an experienced author team, this text will appeal to trainees in all surgical specialities involved in facial trauma. Summary tables and colour illustrations throughout aid understanding, making this both an ideal introduction to the subject and a useful exam revision text. Key features include: New, updated edition of a well-respected text Easy-to-read, practical clinical handbook Covers aetiology and anatomy, emergency management of trauma, imaging, treatment of dentoalveolar, mandible and midfacial injuries, postoperative care, and complications Suitable for postgraduate students, trainees and practitioners in oral and maxillofacial surgery and practitioners of other medical disciplines involved in facial trauma

Morbid obesity is an epidemic as more than 2/3 of the United States population is obese and as such, has a high burden of weight-related co-morbid diseases. Bariatric surgery has proven to be effective and durable for treatment of severe obesity. Technological advances including applications of laparoscopy and endoluminal techniques have rapidly advanced this field. Data and outcomes examining treatments have also improved and as providers, we have a wide spectrum of therapeutic options to treat patients. As techniques and outcomes have evolved, access to a comprehensive yet focused resource regarding bariatric surgery is currently limited. The proposed textbook is designed to present a comprehensive and state-of-the-art approach to the current and future status of Bariatric interventions, which has changed significantly since the first edition of the Manual. Updates in this version will include the rapidly expanding field of endoluminal bariatric procedures, with a focus on new devices and theories of mechanisms. New data regarding laparoscopic approaches to treat obesity, as well as improved longer-term data outcomes will be reviewed. Newer surgical approaches to treat metabolic disease and obesity are included, as well as proposed mechanisms of action and efficacy. Additional new sections include sections on the application of robotic technologies, special circumstances including transplantation and pregnancy, and telemedicine and social media in bariatric surgery. Sections will address the evolution in specific treatments available to patients, initial evaluation and selection of procedures for individual patients, the latest surgical and endoscopic techniques being employed to treat patients including data on outcomes, and future directions for therapy. In particular and unique amongst references, a major focus of this text will be on both the bariatric and metabolic bases of therapies and outcomes. The SAGES Manual A Practical Guide to Bariatric Surgery, Second Edition aligns with the new SAGES UNIVERSITY MASTERS Program. The Manual supplements the Bariatric Surgery Pathway from Competency to Proficiency to Mastery. Whether it's for Biliary, Hernia, Colon, Foregut or Bariatric, the key technical steps for the anchoring bariatric procedures are highlighted in detail as well as what the reader needs to know to successfully submit a video clip to the SAGES Facebook Channels for technical feedback. Readers will also learn about how to count credits for Bariatric from the other Master Program Series, Guidelines, Top 21 Videos, Pearls, FLS, FES, FUSE, SMART and Annual SAGES Meeting. The Masters Program promotes lifelong deliberate learning.

Principles and Practice of Geriatric Surgery presents the fundamentals of surgical care for the fastest growing segment of the US population, providing a vital integration of operative strategies with the physiological changes of aging. Among the topics covered are the endocrine system, otolaryngology, respiratory system, cardiovascular system, GI system, hepatobiliary system, urogenital system, soft tissue and musculoskeletal system, neurosurgery, and transplantation.

Graduate medical education (GME) is critical to the career development of individual physicians, to the functioning of many teaching institutions, and to the production of our physician workforce. However, recent reports have called for substantial reform of GME. The current lack of established GME outcome measures limits our ability to assess the impact of individual graduates, the performance of residency programs and teaching institutions, and the collective contribution of GME graduates to the physician workforce. To examine the opportunities and challenges in measuring and assessing GME outcomes, the National Academies of Sciences, Engineering, and Medicine held a workshop on October 10-11, 2017, in Washington, DC. Workshop participants discussed: meaningful and measurable outcomes of GME; possible metrics that could be used to track these GME outcomes; possible mechanisms for collecting, collating, analyzing, and reporting these data; and further work to accomplish this ambitious goal. This publication summarizes the presentations and discussions from the workshop.

Presented by the American College of Surgeons and the Alliance for Clinical Trials in Oncology, the first comprehensive, evidence-based examination of cancer surgery techniques as standards distills the well-defined protocols and techniques that are critical to achieve optimal outcomes in a cancer operation. This unique, one of a kind collaboration between the American College of Surgeons and the Alliance for Clinical Trials in Oncology focuses on best practices and state-of-the-art methodologies. Operative Standards for Cancer Surgery clearly describes the surgical activities that occur between skin incision and skin closure that directly affect cancer outcomes.

The ON CALL Series \*Concise and portable for "on-the-spot" treatment advice \*Comprehensive overview of the initial evaluation and treatment \*Features the most frequently encountered problems in a specialty \*Includes laboratory and diagnostic tests, procedures, and commonly used medications \*Perfect for residents and students on the wards Over 80 of the most common internal medicine problems. Thoroughly revised to reflect current practices and treatment options.

This book trains the next generation of scientists representing different disciplines to leverage the data generated during routine patient care. It formulates a more complete lexicon of evidence-based recommendations and support shared, ethical decision making by doctors with their patients. Diagnostic and therapeutic technologies continue to evolve rapidly, and both individual practitioners and clinical teams face increasingly complex ethical decisions. Unfortunately, the current state of medical knowledge does not provide the guidance to make the majority of clinical decisions on the basis of evidence. The present research infrastructure is inefficient and frequently produces unreliable results that cannot be replicated. Even randomized controlled trials (RCTs), the traditional gold standards of the research reliability hierarchy, are not without limitations. They can be costly, labor intensive, and slow, and can return results that are seldom generalizable to every patient population. Furthermore, many pertinent but unresolved clinical and medical systems issues do not seem to have attracted the interest of the research

enterprise, which has come to focus instead on cellular and molecular investigations and single-agent (e.g., a drug or device) effects. For clinicians, the end result is a bit of a “data desert” when it comes to making decisions. The new research infrastructure proposed in this book will help the medical profession to make ethically sound and well informed decisions for their patients.

Orthopedic experts in their field have carefully chosen what they consider to be the key papers in their respective domains. Every paper is carefully described and evaluated by its strengths, weaknesses and its contribution to the field. Papers have been chosen by number of citations, academic importance, articles that have changed our whole way of thinking or that have simply stood the test of time.

When Laparoscopy in Children was first published in 2003, it quickly became popular with pediatric surgeons worldwide owing to its clear schematic drawings and concise text. This new edition has been revised and enlarged to cover the new procedures and other advances that have emerged in the intervening period, during which the number of operations has almost doubled. Now, the vast majority of indications for laparoscopy in children are presented and discussed. Each operation is systematically described and illustrated step by step, providing the reader with the technical guidelines required to perform laparoscopy safely even in small children. Laparoscopy in Children will be an invaluable guide for all surgeons who perform, or plan to perform, such operations.

This book teaches the theories and concepts behind surgical quality improvement and explains the skills and traits needed to become a high quality provider. The editors aim to teach and inspire the reader to achieve high quality outcomes and strive for continuous improvement.

Surgical site infections are caused by bacteria that get in through incisions made during surgery. They threaten the lives of millions of patients each year and contribute to the spread of antibiotic resistance. In low- and middle-income countries, 11% of patients who undergo surgery are infected in the process. In Africa, up to 20% of women who have a caesarean section contract a wound infection, compromising their own health and their ability to care for their babies. But surgical site infections are not just a problem for poor countries. In the United States, they contribute to patients spending more than 400 000 extra days in hospital at a cost of an additional US \$10 billion per year. No international evidence-based guidelines had previously been available before WHO launched its global guidelines on the prevention of surgical site infection on 3 November 2016, and there are inconsistencies in the interpretation of evidence and recommendations in existing national guidelines. These new WHO guidelines are valid for any country and suitable to local adaptations, and take account of the strength of available scientific evidence, the cost and resource implications, and patient values and preferences.

The SAGES Manual on the Fundamental Use of Surgical Energy (FUSE) emphasizes good communication and promotes best practice for the use of electrosurgical, ultrasonic, and microwave energy sources in the operating theatre. This manual describes the basic technology of energy sources in the operating room and demonstrates the correct use and indications of energy sources in clinical practice. It also addresses the potential complications, hazards, and errors in the use of surgical energy sources and evaluates the potential interactions of energy sources with other medical devices. Any healthcare professional who has ever picked up an energy device in the OR such as a “Bovie” , Ultrasonic or bipolar instrument will better understand how it works, when to apply it, and what are the possible hazards and errors in its use. The SAGES Manual on the Fundamental Use of Surgical Energy (FUSE) is the first volume of its kind to provide such guidance and will be of great value to surgeons, anesthesiologists, nurses, endoscopists, and allied health care professionals who use these devices.

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