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Minimally Invasive Approaches in Endodontic Practice **Advances in Minimally Invasive Surgery** *FUE Hair Transplantation* **Minimally Invasive Acute Care Surgery** *Minimally Invasive Oral and Maxillofacial Surgery* **Minimally Invasive Surgery for Upper Abdominal Cancer** *Minimally Invasive Surgery of the Foot and Ankle* **Minimally Invasive Acute Care Surgery** **Minimally Invasive Surgery of the Foot and Ankle** *Minimally Invasive Cardiac Surgery* *Minimally Invasive Surgery in Orthopedics* *Minimally Invasive Approaches to Colon and Rectal Disease* **An Anatomic Approach to Minimally Invasive Spine Surgery** *Atlas of Minimally Invasive Techniques in Upper Gastrointestinal Surgery* *Engineering Approaches to Mechanical and Robotic Design for Minimally Invasive Surgery (MIS)* *Minimally Invasive Surgery: A Comprehensive Approach* **Minimally Invasive Periodontal Therapy** *Transcatheter Mitral Valve Therapies* *Robotic-Assisted Minimally Invasive Surgery* **A Minimally Invasive Approach to the Fatty Tissue Excess** **The Single-Tooth Implant** **Minimally Invasive Approach to the Mandibular Ramus-condyle Unit** **Functional Surgery of Cerebellopontine Angle by Minimally Invasive Retrosigmoid Approach** *Comprehensive Overview of Modern Surgical Approaches to Intrinsic Brain Tumors* **Minimally Invasive Spine Surgery** *Robotic Approaches to Colon and Rectal Surgery* **Minimally Invasive Surgery for Achilles Tendon Disorders in Clinical Practice** *Fundamentals of Congenital Minimally Invasive Cardiac Surgery* *Visual Tracking in Conventional Minimally Invasive Surgery* *Atlas of Minimally Invasive Surgery for Lung and Esophageal Cancer* **Minimally Invasive Bariatric and Metabolic Surgery** *Supra-Gingival Minimally Invasive Dentistry* **Clinical Pancreatology for Practising Gastroenterologists and Surgeons** *Minimally Invasive Spine Surgery* *Minimally Invasive Surgery in Total Hip Arthroplasty* *Operative Endoscopic and Minimally Invasive Surgery* *Minimally Invasive Surgical Techniques for Cancers of the Gastrointestinal Tract* *Anaesthesia for Minimally Invasive Surgery* *Recent Advances in Minimally Invasive Surgery* **Minimally Invasive Surgery in Gynecological Practice**

This text is designed to present a comprehensive, up to date and safe approach to managing emergency general surgery patients with a minimally invasive approach. This book bridges the gap between the minimally invasive surgery (MIS) expert who may not routinely be involved in the care of the acute care surgery patient and the ACS expert surgeon who may not have a routine MIS elective practice. The first section reviews the physiology of the acute care surgery patient and the physiologic impact of MIS techniques including pneumoperitoneum in critically ill patients. This review is crucial to assure that the surgeon has a clear understanding of when a MIS approach is safe and when it can be potentially dangerous to the patient. The illustrations are presented in an atlas-style format to describe the surgical procedures. The authors of the various sections are minimally invasive and acute care surgeons from prominent academic centers. The format represents a narrative review with appropriate illustrations and links to online videos. Recent years have witnessed a trend toward the use of minimally invasive techniques in all areas of orthopedic surgery, including hip replacement. This book aims to provide a comprehensive guide to the use of minimally invasive surgery in total hip arthroplasty. The four commonly employed approaches – anterior, anterolateral OCM, anterolateral supine, and posterior – are described in detail with the aid of high-quality illustrations. For each approach, clear guidance is offered on patient selection, patient positioning, surgical procedure, postsurgical care, and rehabilitation. Potential complications and the advantages and disadvantages of each option are carefully weighed up, and experts also present their personal experiences, outcomes, and success rates with the different approaches. The book concludes by discussing future trends in hip arthroplasty. Learn state-of-the-art MIS techniques from master spine surgeons! Significant advances have been made in minimally invasive spine (MIS) surgery approaches, techniques, and innovative technologies. By preserving normal anatomic integrity during spine surgery, MIS approaches enable spine surgeons to achieve improved patient outcomes, including faster return to normal active lifestyles and reduced revision rates. Exposing only the small portion of the spine responsible for symptoms via small ports or channels, requires a deep understanding of spinal anatomy and spinal pathophysiology. Building on the widely acclaimed first edition, An Anatomic Approach to Minimally Invasive Spine Surgery, Second Edition, provides an expanded foundation of knowledge to master minimally invasive spine surgery. World-renowned spine neurosurgeons Mick Perez-Cruet, Richard Fessler, Michael Wang, and a cadre of highly regarded spine surgery experts provide masterful tutorials on an impressive array of cutting-edge technologies. Organized by seven sections and 51 chapters, the book presents a diverse spectrum of current safe and efficacious MIS procedures and future innovations. Nonsurgical approaches include injection-based spine procedures and stereotactic radiosurgery. Surgical technique chapters discuss MIS anterior, posterior, and lateral approaches to the cervical, thoracic, and lumbar spine, with procedures such as endoscopic microdiscectomy, vertebroplasty and kyphoplasty, percutaneous instrumentation, and robotic spine surgery. Key Features Step-by-step illustrations, including more than 400 depictions by master surgical and anatomic illustrator Anthony Pazos portray the surgeon’s-eye-view of anatomy, intraoperative images, and surgical instruments, thereby aiding in the understanding of anatomy and procedures 20 online videos feature real-time operative fluoroscopy, pertinent anatomy, operative set-up, and common cervical, thoracic, and lumbar approaches Discussion of novel MIS techniques reflected in 16 new or expanded chapters, including Robotic Assisted Thoracic Spine Surgery and Stem-Cell Based Intervertebral Disc Restoration There is truly no better clinical reward for spine surgeons than giving patients suffering from debilitating spinal disorders their life back. This quintessential MIS surgery resource will help surgeons and clinicians accomplish that goal. This book provides a comprehensive overview of hair transplantation using the Follicle Unit Extraction method, and is the translation of the successful German edition. Following a brief introduction to the topic and explaining key terms used in hair surgery, it discusses one of the most common reasons for hair loss - androgenic alopecia in men and women. The main body then describes the surgical procedure for the Follicle Unit Extraction (FUE) method, including prerequisites for donor and recipient sites, and postoperative care. The result of this minimally invasive procedure are detailed in a wealth of high-quality pictures. The punch and the FUT technique are highlighted as sampling methods. Rounding off the coverage of this highly interesting topic, the book summarizes the latest findings and offers an outlook on further developments. This book offers a valuable guide for all plastic surgeons and dermatologists interested in performing this technique at their practices. The cerebellum is the area at the back of the brain that controls motor movement coordination, balance, equilibrium and muscle tone. The pons connects the cerebral cortex (responsible for thinking perceiving, producing and understanding language) with the medulla oblongata (controls autonomic functions such as breathing, digestion, heart and blood vessel function, swallowing and sneezing). It also serves as a communications centre between the two hemispheres of the brain. The cerebellopontine angle (CPA) is the anatomical space at the junction of the cerebellum and the pons and is a frequent site of benign tumour formation and other non life-threatening, functional disorders. (About.com). This manual is a comprehensive guide to functional surgery of the CPA using the minimally invasive retrosigmoid technique, which involves making a small incision behind the ear, providing endoscopic access to the cerebellum and brain stem. Beginning with the surgical anatomy of CPA and in depth discussion on the instruments and set up for the procedure, the following sections cover the pathophysiology, radiological characteristics, neurological presentation, diagnosis and treatment of a wide spectrum of CPA lesions. Written by internationally recognised experts from France, India and Japan, this highly illustrated resource includes 550 full colour clinical photographs, diagrams and tables, as well as extensive references. Key points Comprehensive guide to minimally invasive retrosigmoid surgery of the cerebellopontine angle (CPA) In depth discussion of instruments and set up for the procedure Internationally recognised author team Includes 550 photographs, diagrams and tables This text is designed to present a comprehensive, up to date and safe approach to managing emergency general surgery patients with a minimally invasive approach. This book bridges the gap between the minimally invasive surgery (MIS) expert who may not routinely be involved in the care of the acute care surgery patient and the ACS expert surgeon who may not have a routine MIS elective practice. The first section reviews the physiology of the acute care surgery patient and the physiologic impact of MIS techniques including pneumoperitoneum in critically ill patients. This review is crucial to assure that the surgeon has a clear understanding of when a MIS approach is safe and when it can be potentially dangerous to the patient. The illustrations are presented in an atlas-style format to describe the surgical procedures. The authors of the various sections are minimally invasive and acute care surgeons from prominent academic centers. The format represents a narrative review with appropriate illustrations and links to online videos. ?Minimally Invasive Surgery for the achilles tendon represents a novel approach to treatment of orthopedic problems in the Achilles tendon. The gradual change of philosophy in the management of ankle surgery means that patients require a less invasive approach to surgery and a consequent improvement in recovery time. Describing the techniques and, importantly, the indications for minimally invasive procedures for the management of achilles tendon ailments, this book explains the management of various conditions and how they can be approached using minimally invasive techniques. This handbook provides an instant reference source for specialists and trainees alike, for those needing a ‘to the point’ companion when performing when treating disorders of the achilles tendon.? Gynaecological practice has changed fundamentally in the last three decades and a large proportion of major pelvic operations has been replaced by minimally invasive approaches. This book will cover minimally invasive approaches in all aspects of gynaecology including general gynaecology, oncology, urogynaecology and reproductive medicine. The chapters are written at a level appropriate for trainees/residents and general gynaecology specialists but enough details and additional resources will be provided for those who require further information. Specific aim of the book is to provide direct to the point surgical pearls which can be adapted to the daily practice instantly by the target audience. The book includes chapters on relevant surgical anatomy, principles of MIS, management of camera systems, video/image editing, initiating a successful MIS practice, improving efficiency of current MIS program, how to develop successful teaching techniques in academic setting, avoiding & managing MIS related surgical complications and preoperative/postoperative care before covering MIS for individual conditions including intensive care managements. Chapters are written by world renown authorities. ACOG guideline recently published a statement recommending vaginal hysterectomy and endoscopic hysterectomy should be considered as a first step of surgical choice. Current practice has been shifting from open cases to laparoscopic/ robotic assisted cases while vaginal cases stays steady. This shift has created an urge among gynaecologists to learn, improve or adapt laparoscopic/ robotic techniques in their practice. Visual Tracking in Conventional Minimally Invasive Surgery introduces the various tools and methodologies that can be used to enhance a conventional surgical setup with some degree of automation. The main focus of this book is on methods for tracking surgical tools and how they can be used to assist the surgeon during the surgical operation. Various notions associated with surgeon–computer interfaces and image–guided navigation are explored, with a range of experimental results. The book starts with some basic motivations for minimally invasive surgery and states the various distinctions between robotic and non-robotic (conventional) versions of this procedure. Common components of this type of operation are presented with a review of the literature addressing the automation aspects of such a setup. Examples of tracking results are shown for both motion and gesture recognition of surgical tools, which can be used as part of the surgeon–computer interface. In the case of marker-less tracking, where no special visual markers can be added to the surgical tools, the tracking results are divided into two types of methodology, depending on the nature and the estimate of the visual noise. Details of the tracking methods are presented using standard Kalman filters and particle filters. The last part of the book provides approaches for tracking a region on the surgical scene defined by the surgeon. Examples of how these tracking approaches can be used as part of image-guided navigation are demonstrated. This book is designed for control engineers interested in visual tracking, computer vision researchers and system designers involved with surgical automation, as well as surgeons, biomedical engineers, and robotic researchers. Minimally invasive or laparoscopic surgery is becoming increasingly commonplace, as technology has enabled a minimally invasive approach to be offered as a feasible alternative to conventional open surgery for a number of important surgical procedures. This up-to-date, comprehensive, but concise and practically oriented introduction to the subject will be of value to all anaesthetists with an interest in minimally invasive techniques. It begins by covering the key aspects of basic physiology, moves on to patient preparation and positioning, monitoring, the anaesthetic procedures themselves (including possible complications and contraindications and easy-to-follow ‘how to’ guides for a number of key procedures) and finally, post-operative pain. Written by a leading expert in the field, from a well-known European centre of excellence, it is essential reading for anaesthetists and intensivists at all levels of expertise. Similar to the 1st edition, the 2nd edition of Minimally Invasive Surgical Techniques for Cancers of the Gastrointestinal Tract provides different approaches for various organs of the gastrointestinal tract. This book provides an updated resource of advanced minimally invasive surgical techniques for patients with GI cancers. It is primarily designed to provide a step-by-step approach of surgical techniques, highlighting key learning points and potential operative pitfalls. The text is largely focused on minimally invasive surgical techniques (laparoscopic and robotic), with new chapters on innovations in gastric cancer surgery including middle gastrectomy, pylorus preserving gastrectomy, and sentinel lymph node dissection. In addition, the text also includes new chapters on single incision surgery for cancers of the GI tract, on advanced instrumentation for trans-anal procedures, and on refined robotic approaches to total mesorectal excision. Chapters are written by experts with extensive experience in new techniques, and are accompanied by companion videos in almost every chapter. The 2nd edition of Minimally Invasive Surgical Techniques for Cancers of the Gastrointestinal Tract proves to be a valuable resource for surgeons at all levels of training that are interested in learning new techniques to improve patient satisfaction and cancer outcomes. Comprehensive Overview of Modern Surgical Approaches to Intrinsic Brain Tumors addresses limitations in the scientific literature by focusing primarily on surgical approaches to various intrinsic neoplasms using diagrams and step-by-step instructions. It provides the advantages and disadvantages of these approaches, controversies, and technical considerations and discusses topics such as anatomy, pathology and animal models, imaging, open brain tumor approaches and minimally invasive approaches. Additionally, it discusses controversial treatments and the pros and cons of each. This book is a valuable source for medical students, neurosurgeons and any healthcare provider who has an interest in brain tumors and techniques to treat them. Provides a comprehensive review of different approaches, explaining them step-by- step Includes diagrams that show surgical approaches Presents the advantages and disadvantages of each approach to aid in decision-making This Atlas presents a state-of-the-art review of VATS and robotic approaches to managing lung and esophageal cancers. It discusses cancer staging, physiological evaluation of patients, and patient selection for minimally invasive surgery. The atlas offers detailed descriptions of individual operations accompanied by anatomic drawings, intraoperative images, and 3-dimensional anatomic reconstructions. Written by recognized experts in the field, it provides readers with an unparalleled resource for advancing their skills in managing these cancers. It is a valuable reference work for thoracic surgeons in training as well as in practice who want to pursue minimally invasive surgery. It is unique in offering fully illustrated, step-by-step descriptions of the operative procedures. This is a new reference edited by two leading authorities in the field of minimally invasive surgery that differentiates itself from other similar titles by providing a stronger emphasis on incorporating newer technologies. The book discussed the incorporation of flexible endoscopy into surgical practice, harvesting the expertise of gastroenterologists and surgical endoscopists. It also discusses minimally invasive operative procedures such as laparoscopically assisted vaginal hysterectomy. Unique resource provides spine surgeons with the right tools and mindset to perform minimally invasive surgery Minimally Invasive Spine Surgery: A Primer by Luis Manuel Tumulalán is the ideal introduction to minimally invasive spine approaches, especially for neurosurgery and orthopedic residents, fellows, and spine surgeons who want to incorporate minimally invasive approaches into their practice. The Primer offers a treasure trove of 3D illustrations and animations that virtually brings the aspiring minimally invasive spine surgeon into the operating room alongside their professor. The text starts with a discussion of open spine surgery versus minimally invasive procedures and the optimal mindset required to convert from one to the other. The book is divided into lumbar, cervical, and thoracic spine sections, and a fourth section dedicated to the fundamentals of fluoroscopy and radiation exposure. The text begins with an overview, history, and evolution of each procedure, followed by a discussion of the anatomical basis for using a minimally invasive approach. Each anatomical section starts with the least complicated surgeries, thereby laying the foundation for more complex procedures discussed in subsequent chapters. The third section focuses on thoracic decompression, nerve sheath tumors in the lumbar and thoracic spine, and management of metastatic disease and intradural extramedullary lesions. Key Features Single-authored text provides uniform readability and philosophy--cover to cover Lumbar approaches include microdiscectomy, laminectomy, transforaminal interbody fusions, and the transpsoas approach Cervical procedures encompass posterior foraminotomy, laminectomy, and anterior discectomy Superb illustrations, high-fidelity anatomical animations based on computer modeling, and procedural videos enhance understanding of minimally invasive spine principles This unique, single-author Primer is a must-have resource for early-career spine surgeons who wish to learn minimally invasive principles, as well as veteran surgeons who have a desire to incorporate minimally invasive spine surgery into clinical practice. This book includes complimentary access to a digital copy on https://medone.thieme.com. Minimally invasive surgery has evolved as an alternative to the traditional approaches in orthopedic surgery and has gathered a great deal of attention. Many surgeons are now p- forming all types of procedures through smaller surgical fields. Along with changes in the surgical technique, there have been rapid advances in computer navigation and robotics as tools to enhance the surgeon’s vision in the limited operative fields. With these new techniques and technologies, we must ensure that these procedures are performed safely and effectively with predictable clinical outcomes. This book has been expanded from our previous publi- tions to include spine and foot and ankle surgery, along with updated sections on knee arth- plasty, hip arthroplasty, and upper extremity surgery. The clinical information and surgical techniques, along with tips and pearls, provided by experts in the field allows the reader to grasp a comprehensive understanding of the nuances of MIS. It is our intention that this text will be a valuable reference for all orthopedic surgeons. New York, NY Giles R. Scuderl, MD Piscataway, NJ Alfred J. Tria, MD v BookID 127440_ChapID FM_Proof# 1 - 14/09/2009 Contents Section I The Upper Extremities 1 What Is Minimally Invasive Surgery and How Do You Learn It? 3 Aaron G. Rosenberg 2 Overview of Shoulder Approaches: Choosing Between Mini-incision and Arthroscopic Techniques 11 Raymond A. Klug, Bradford O. Parsons, and Evan L. Flatow 3 Mini-incision Bankart Repair 15 Edward W. Lee, Kenneth Accousti, and Evan L. Flatow 4 Mini-open Rotator Cuff Repair This book aims to comprehensively describe the minimally invasive technique including robot assisted procedures of upper abdominal cancer, including aspects such as surgical anatomy, neoadjuvant therapy and minimally invasive

surgical technique, and robot assisted procedures (5 alinea). Upper abdominal oncological surgery is increasingly approached by Minimally Invasive Surgery (MIS). Due to the rising experience of young surgeons with MIS, the optimal imaging obtained during the procedure and the possibility of decreasing the postoperative complications has led to an increase of quality of life without compromising the completeness of resection. The book bases its approach on the information gathered by MIS observation and the step-by-step descriptions, by using illustrations and videos of surgical procedures for oncological resections of esophageal and gastric cancer, as well as for duodenum, pancreas, spleen and liver cancers. Furthermore, this book will serve as a teaching guide, providing a present-day introduction to the increasingly sophisticated performance of surgery required by general and specialized surgical practitioners. The reader will have access to a practical book with relevant information that guides adequate treatment. Minimally invasive techniques, designed to reduce morbidity and risk while simultaneously improving outcomes, are increasingly being used in oral and maxillofacial surgery. This book covers the most recent technological developments and the advanced techniques used when performing such minimally invasive surgery in patients with common and rare oral and maxillofacial pathologies. The relevant basic science is reviewed, but the principal focus is on the surgical techniques themselves. These are described step by step with the aid of numerous superb color illustrations that will help the clinician to gain a full understanding of the technology and the procedures. In addition, still emerging techniques of endoscopy, navigation, and minimally invasive surgery are well covered. This text will be a premier resource for physicians who diagnose and treat oral and maxillofacial pathologies and injuries. **TRANSCATHETER MITRAL VALVE THERAPIES** An essential survey of the advancing field of transcatheter mitral valve repair and replacement Minimally invasive transcatheter therapies have revolutionized the treatment of structural heart disease. Greatly improving outcomes for higher-risk patients, transcatheter aortic valve replacement is now established as a safe and effective alternative to invasive surgery. The mitral valve, however, poses further challenges. Contending with one of the heart's most anatomically and pathologically complex components, practitioners and engineers have yet to perfect a stream-lined, widely deliverable therapy—though they are getting closer and closer to this goal. **Transcatheter Mitral Valve Therapies** provides a far-reaching survey of the field of mitral interventions in its current state. Highlighting the stumbling blocks preventing transcatheter mitral valve replacement's widespread adoption, the book's international group of contributors discuss the improvements to be made in repair and replacement procedures, as well as the adjunctive use of imaging and pharmacologic therapies. This ground-breaking text: Provides detailed explanations of transcatheter repair, transcatheter replacement, and adjunctive procedures Features chapters on the use of imaging to aid in patient selection, procedure planning, and intra-operative guidance Discusses the importance of minimally invasive approaches for mitral valve repair Examines anticoagulation following transcatheter mitral valve interventions Outlines the possible future of transcatheter mitral valve therapy **Transcatheter Mitral Valve Therapies** is an important, up-to-date resource for interventional cardiologists, as well as all clinical researchers and practitioners seeking information on this vital and developing treatment. **Clinical Pancreatology** Since the book **Clinical Pancreatology for Practising Gastroenterologists and Surgeons** was first published sixteen years ago, the knowledge and clinical management of pancreatic diseases have developed markedly. Thanks to the development of the translational research and the from bench to bedside concept, much progress from the lab has been applied to clinical practice. In addition, several highly relevant clinical trials published over the last years have resulted in the update and optimisation of clinical guidelines. A new and validated classification of severity and complications of acute pancreatitis is firmly rooted in clinical practice and has been the basis for the development of minimally invasive approaches to pancreatic necrosis. The etiopathogenic knowledge of chronic pancreatitis and other pancreatopathies, like that associated with diabetes mellitus, has developed significantly. Especially important has been the development of the field of cystic pancreatic tumours, which has been reflected in the publication of several guidelines and consensus reports over the last few years. Most research efforts have focused on pancreatic cancer, which have led and will further lead to a significant increase in the therapeutic armamentarium against this devastating disease. Finally, many newly published studies have changed the concept, causes, clinical relevance, diagnosis and treatment of exocrine pancreatic insufficiency. This new edition of **Clinical Pancreatology for Practising Gastroenterologists and Surgeons** has enjoyed the collaboration of the world's leading experts in each of the areas of clinical pancreatology with the aim of facilitating gastroenterologists, surgeons, oncologists, internists, nutritionists, diabetologists, paediatricians, radiologists, pathologists and other specialists in their decision making when facing patients with pancreatic diseases in their daily clinical practice. All in all, this book supplies an indispensable update of the relevant aspects of clinical pancreatology. The minimally invasive approach in medicine is one of the most common areas of interest in surgery. **Advances in Minimally Invasive Surgery** describes the latest trends, indications, techniques, and approaches in minimally invasive surgery. It provides step-by-step instructions for both routine and diagnostic procedures via illustrations and video collection. The long-term success of periodontal therapy is dependent on proper diagnosis and removal of subgingival tooth-borne accretions in the form of calculus and bacteria. From a clinical perspective, better visualization during the diagnostic and therapeutic phases has been shown to yield better results compared to traditional approaches. **Minimally Invasive Periodontal Therapy** evaluates the advantages of using minimal invasive techniques, the technologies available for enhancing visualization during minimally invasive therapy, and step-by-step illustrates the clinical use of each technique. Each chapter addresses the advantages and disadvantages of minimally invasive therapies, rationale for the approach, and the advantages and limitations of each of the current methods of improving visualization. The chapters then provide an evidence-based review of the technologies and procedures, and end with case studies for each visualization procedure, featuring clinical photographs. **Minimally Invasive Surgery of the Foot and Ankle** represents a novel approach to treatment of orthopedic problems in the foot and ankle. The gradual change of philosophy in the management of foot and ankle surgery means that patients require a less invasive approach to surgery and a consequent improvement in recovery time. Describing the techniques and, importantly, the indications for minimally invasive procedures for the management of foot and ankle ailments, this book will explain the management of various conditions and how they can be approached using minimally invasive techniques. However, rather than only concentrating on minimally invasive surgery of the foot and ankle, the authors will be examining the options open to surgeons operating in this area – both open surgical and arthroscopic – and explaining the benefits of each. Extensive radiographs, diagrams, and intra-operative pictures will illustrate the procedures described. This book examines the considerations, drawbacks, and advancements minimally invasive techniques have provided in the evaluation, management, and outcomes across a broad range of colorectal disease and procedures. For some readers of this book, a minimally invasive approach to colorectal disease may add a new dimension to the management of these patients. For others, it is the opportunity to learn helpful tips, specifics about a certain procedure, or to fine tune what has already become a routine part of their practice. Even if you have successfully overcome many of the technical challenges of minimally invasive surgery, the preoperative evaluation, perioperative decision-making, and management of postoperative complications can be demanding and consuming. Wherever you may be on this spectrum, **Robotic Approaches to Colorectal Surgery** is a useful resource to surgeons. Minimally invasive surgery has impacted the outcomes of surgery more than any technology since the development of sterile technique. The hard science has demonstrated that decrease in wound complications and recovery time has created the biggest gap with open approaches to surgery. The total economic benefit may be unfathomable when looked at comprehensively. Integral to the rise of minimal access and therapeutic techniques in surgery has been the growth of technological improvements over time. Beginning with insufflators, videoscopes, and energy devices, that evolution has continued into the development of tele-surgical devices that feature full articulation of instruments, high-resolution 3-D optics, and computer assisted movement. This has come with controversy – as the dominant manufacturer of robotic assisted devices, Intuitive Surgical, and their generations of da Vinci surgical platforms, holds enough market share to spur cries of monopoly and financial excess. However, with over 3000 world-wide systems in use, and over 6000 peer-reviewed research articles, the impact of robotic surgery cannot be ignored. The current state of data suggests equivalency in most procedures with regard to traditional outcome measures, equal or somewhat elevated costs, with specific areas of superiority. The first section of this textbook, **Surgical Robots**, covers the history, economics, training, and medico-legal aspects of robotic surgery that will be of interest to students, residents, fellows, surgical staff, and administrators or public health specialists who seek to gain a comprehensive background on robotic surgery, or justification for purchasing a robotic system for their institution. Surgeons will also find this background valuable to their practice, to give context to their procedures so they can better counsel their patients, help with advocating for robotic platform purchases, and proactively prepare themselves for medico-legal issues. The chapter on legal issues will have specific instances of robotic surgery-related lawsuits and their outcomes, a first for robotic surgery texts. The second section of this textbook, **Robotic Procedures**, will contain a comprehensive catalogue of procedures that have been performed robotically in general surgery, gynecology, urology, plastic surgery, cardiothoracic, and otolaryngology. Each author will cover the existing literature, preoperative planning, room and patient setup, steps of the procedure, and postoperative care. Standardized room maps and port placement will help the student, resident, fellow, surgeon or OR Staff to quickly reference these before cases. Each chapter will also cover the specific equipment needs and expected complexity of the procedures, allowing administrators to better gauge how to prepare for, or ration, use or their robotic resources. The final section, **Future of Robotics**, will give the entire scope of audience a look into what exciting advancements in the field are on the horizon. This textbook is a complete resource for robotic-assisted minimally invasive surgery, covering the history, current state, technical and clinical aspects, and future considerations that may be of interest to any who has a role, stake, or curiosity regarding robotic surgery. Within the past twenty years, the field of robotics has been finding many areas of applications ranging from space to underwater explorations. One of these areas which is slowly gaining popularity among the users group is the notion of service robotics. This book is an investigation and exploration of engineering principles in the design and development of mechanisms and robotic devices that can be used in the field of surgery. Specifically the results of this book can be used for designing tools for class of Minimally Invasive Surgery (MIS). Generally, Minimal Invasive Surgery (MIS), e. g. laparoscopic surgery, is performed by using long surgical tools, that are inserted through small incisions at the ports of entry to the body (e. g. abdominal wall) for reaching the surgical site. The main drawback of current designs of endoscopic tools is that they are not able to extend all the movements and sensory capabilities of the surgeon's hand to the surgical site. By improving surgical procedures, training, and more practice, it is possible for surgeons to reduce completion time for each task and increase their level of skill. However, even in the best cases the level of performance of a surgeon in Minimally Invasive Surgery is still a fraction of the conventional surgery. Any dramatically improvement is usually driven by introduction of new tools or systems that in turn bring totally new procedures and sets of skills. This Atlas comprehensively covers minimally invasive operative techniques for benign and malignant cancer surgery of the esophagus and stomach. It provides easy-to-follow instructions accompanied by a range of pictures and illustrations, as well as a collection of interactive videos to aid the reader in developing a deeper understanding of each surgical procedure. Techniques covered include minimally invasive surgical treatment for esophageal and gastric cancer including different approaches such as thoracoscopic, transhiatal, laparoscopic, and robot-assisted resections. These chapters include different types of cervical and intrathoracic anastomoses after esophageal resections, and different anastomoses and reconstructions after gastrectomy. Moreover, the Atlas includes an extensive description of minimally invasive procedures in bariatric surgery including sleeve resection, gastric bypass, biliopancreatic diversion, and others. Minimally invasive approaches for other benign pathologies such as benign tumors and treatment of gastroduodenal ulcer complications are also depicted. All chapters, written by a renowned and experienced international group of surgeons and their teams, are focused on practical step-by-step description of the techniques. Atlas of Minimally Invasive Techniques in Upper Gastrointestinal Surgery systematically describes the most frequently performed surgical procedures of the esophagus and stomach and is a valuable resource for all practicing surgeons and trainee general surgeons dedicated to upper gastrointestinal surgery, such as bariatric and surgical oncologists. **Minimally Invasive Surgery of the Foot and Ankle** represents a novel approach to treatment of orthopedic problems in the foot and ankle. The gradual change of philosophy in the management of foot and ankle surgery means that patients require a less invasive approach to surgery and a consequent improvement in recovery time. Describing the techniques and, importantly, the indications for minimally invasive procedures for the management of foot and ankle ailments, this book will explain the management of various conditions and how they can be approached using minimally invasive techniques. However, rather than only concentrating on minimally invasive surgery of the foot and ankle, the authors will be examining the options open to surgeons operating in this area – both open surgical and arthroscopic – and explaining the benefits of each. Extensive radiographs, diagrams, and intra-operative pictures will illustrate the procedures described. The surgical procedures which limit the size of incisions required and consequently reduce the pain, wound healing time, and the risk of infection are known as minimally invasive surgeries. The advancement in technology has resulted in advanced techniques of minimally invasive surgery. One such example is remote-control manipulation of instruments with indirect observation through a large scale display panel. Minimally invasive direct coronary artery bypass is an example of minimally invasive surgery. It is a type of surgical procedure for coronary heart disease. It is often known as "keyhole" heart surgery because in this surgery, the operation is analogous to operating through a keyhole. This book provides comprehensive insights into the field of minimally invasive surgery. It includes some of the vital pieces of work being conducted across the world, on various topics related to minimally invasive surgery. The extensive content of this book provides the readers with a thorough understanding of the subject. Minimally invasive surgery has become a common term in visceral as well as gynecologic surgery. It has almost evolved into its own surgical speciality over the past 20 years. Today, being firmly established in every subspecialty of visceral surgery, it is now no longer a distinct skillset, but a fixed part of the armamentarium of surgical options available. In every indication, the advantages of a minimally invasive approach include reduced intraoperative blood loss, less postoperative pain, and shorter rehabilitation times, as well as a marked reduction of overall and surgical postoperative morbidity. In the advent of modern oncologic treatment algorithms, these effects not only lower the immediate impact that an operation has on the patient, but also become important key steps in reducing the side-effects of surgery. Thus, they enable surgery to become a module in modern multi-disciplinary cancer treatment, which blends into multimodular treatment options at different times and prolongs and widens the possibilities available to cancer patients. In this quickly changing environment, the requirement to learn and refine not only open surgical but also different minimally invasive techniques on high levels deeply impact modern surgical training pathways. The use of modern elearning tools and new and praxis-based surgical training possibilities have been readily integrated into modern surgical education, which persists throughout the whole surgical career of modern gynecologic and visceral surgery specialists. This book describes the latest minimally invasive approaches in endodontics and explains the principles that guide them. The advantages and limitations of these approaches are critically analyzed with the intention of defining new endodontic gold standards. The trend toward the use of more conservative procedures within endodontics reflects the wider adoption of minimally invasive dentistry in general and is being fostered by the introduction of new materials, devices, instruments, and techniques as well as the use of magnification and advanced three-dimensional diagnostic imaging technologies. In this book, readers will find clear explanation of these advances and their impacts. Minimally invasive access to the root canal system is described, and detailed attention is devoted to the application of novel strategies in root canal instrumentation and disinfection, root canal filling, coronal restoration, retreatment, and endodontic surgery. Minimally invasive alternatives to complete endodontic treatment, such as vital pulp therapies, and to dental extraction and implant placement, including surgical extrusion, intentional replantation, and tooth autotransplantation, are also discussed. **Minimally Invasive Approaches in Endodontic Practice** will be of value for endodontists at all levels of experience. This text provides a clear, reproducible, step-by-step guide for each colorectal surgery operation. The format follows that of both a "how to" manual as well as an algorithm-based guide to allow the reader to understand the thought process behind the proposed treatment strategy. Each chapter includes both operative technical details as well as perioperative "tips and tricks" that the authors utilize in the management of these complex surgical patients. In addition, it addresses the optimal "next step" in dealing with more challenging situations such as pregnancy, emergent surgery, the elderly, and the obese patient. Throughout the text, each author provides an ongoing narrative of his/her individual surgical techniques along with color illustrations and diagrams to "personally" take the reader through the crucial steps of the procedure, as well as key points of patient care inherent to that topic. Additionally, where appropriate, links to online or downloadable videos will give the reader an up-front look into technical aspects of traditional straight laparoscopic and hand-assisted minimally invasive surgery, as well as NOTES, transanal, robotic, single incision colectomy and combined laparoscopic-endoscopic resection. **Minimally Invasive Approaches to Colon and Rectal Disease: Technique and Best Practices** will be of great utility to colorectal, general and oncologic surgeons who want to learn or improve their minimally invasive skills in colorectal surgery. Furthermore, this text will be of particular interest to the surgeons-in-training, and the general and colorectal surgeon who is often called upon to manage a variety of colorectal surgery conditions through a minimally invasive approach. Minimally invasive cardiac surgery (MICS) is an integral component of every future cardiac surgeon's training. There continues to be a growing global demand towards less invasive surgical techniques. Both cardiologist and cardiac surgeon form "heart teams" to provide patients with novel, minimally invasive procedures, with all their benefits. Less invasive techniques are often complex and require special knowhow and skills. This book offers an innovative approach to learning, utilizing QR code technology, which refers the reader to essential audio-visual material, which, along with the didactic text, focuses on practical aspects of minimally invasive cardiac surgery. In modern Heart Teams, and with the advent of the hybrid era, surgeons will only be able to survive if they have state-of-the-art skills in less invasive technologies, which can be incorporated in the hybrid theatre and/or trans-catheter arena. This text accompanies the surgeon along this path, and provides clinical advice and practical solutions, beyond the necessary basic knowledge. Which courses to visit, which videos to watch, which centres to join for serious training? How best to exploit public and multimedia? How to consent a patient into a MICS procedure? How to set up a MICS program or practice? In the era of value driven outcomes, and a shift towards shorter and better patient journeys, MICS is a skill that no heart surgeon can be without. **Minimally Invasive Cardiac Surgery: A Practical Guide** is a teaching resource, reference book and manual written by surgeons who both operate and teach the procedures described within. Provides access to online resources via QR codes Includes links to videos and the e-version of the text Acts as a gateway to a huge choice of minimally invasive cardiac surgery materials **Supra-Gingival Minimally Invasive Dentistry: A Healthier Approach** to Esthetic Restorations provides a real-world approach to healthier supra-gingival minimally invasive restorations, as an alternative to more invasive mechanically retained restorations, such as full crowns. Provides practical, step-by-step coverage of the key elements in diagnosis, case planning, preparation, restorations, and cementation of bonded restorations Offers excellent and simple explanations of the latest in adhesive dentistry and the proper selection of restorative materials Covers both anterior and posterior direct and indirect bonded restorations, offering a better, healthier approach Presents hundreds of beautiful images showing planning, preparation, and restoration principles and treatment Features the contributions of Dr. Ray Bertolotti, Contributing Editor, and a foreword written by Gordon J. Christensen, DDS, MSD, PhD, CEO of Clinicians Report Foundation and Practical Clinical Reports **Minimally Invasive Spine Surgery**, in some form or other, has historical roots dating back more than 100 years, and recent advances in technology now make it increasingly effective in treating suitable spine patients. While minimally invasive approaches have shown to reduce muscle damage, blood loss, and post-operative pain, to perform this type of surgery correctly, even highly skilled modern-day surgeons must prepare themselves for a demanding learning curve. For this reason, AOSpine proudly presents **Minimally Invasive Spine Surgery: Techniques, Evidence, and Controversies**, the most comprehensive book of its kind, which includes more than 500 pages of surgical techniques, illustrations, case images, tips and tricks, and research, providing an invaluable tool for spine surgeons around the world. Each technique is fully examined: The pros and cons of each is objectively reviewed Its spectrum of indications and contraindications is summarized Historical and modern day controversies relating to each technique are discussed Uniquely, chapters in the text are further supported by an evidence-based section summarizing research studies, analysis, and conclusions into each technique, from peer-reviewed journals The text covers more than just a

range of interesting medical techniques. By including brief historical introductions on each technique and the surgeons that explored and founded its methods, their early (sometimes self-made) instrumentation, right through to today's current best-practice, this book provides an interesting, informative, and topical instruction on minimally invasive surgery and its increasingly encouraging results for spine-patient care. Fundamentals of Congenital Minimally Invasive Cardiac Surgery is a first of its kind, fully-illustrated guide that is solely dedicated to the most diffused congenital minimally invasive cardiac surgery procedures. It provides detailed, step-by-step descriptions of surgical maneuvers to underline each aspect of the procedures along with full color drawings and operative pictures to enhance understanding. Each chapter fully describes the preoperative setting, the needed materials and the required technical skills that make specific congenital heart defects amenable to minimally invasive surgical treatment. This is the perfect go-to reference for pediatric and congenital cardiac surgeons, and is also a must-have guide for residents in cardiac surgery who are looking to review the technical aspects and outcomes of utilizing a minimally invasive approach for cardiac surgery. Provides an extensive, step-by-step description of the most common minimally invasive pediatric cardiac surgical procedures Uses high quality, full color drawings and operative pictures of the most important steps of the procedures to facilitate understanding Combines information on both the detailed operations of minimally invasive pediatric cardiac surgery and the approach behind them This book explains the concept of metabolic surgery and provides step-by-step descriptions of all the principal minimally invasive surgical techniques employed to treat morbid obesity. The approach adopted is very practical. For each procedure, indications, technical aspects, clinical management and outcomes are described and helpful tips and tricks, highlighted. Guidance is provided on the management of emergencies and potential complications, as well as on general postoperative management and long-term follow-up. The coverage also includes new frontiers of robotic and endoscopic surgery. While the focus is on surgical techniques, emphasis is placed on the need for a multidisciplinary approach, with explanation of the role of the multidisciplinary team and the bariatric center. In addition, important information is presented on the definition of morbid and severe obesity, incidence/prevalence, pathophysiology and obesity-related comorbidities. The authors are internationally acknowledged experts who present best practice know-how in the field and draw on the most recent research literature.

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