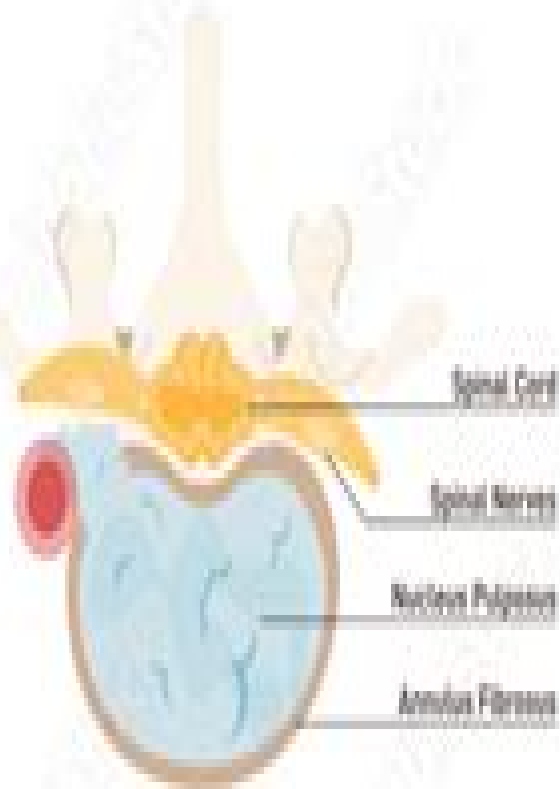
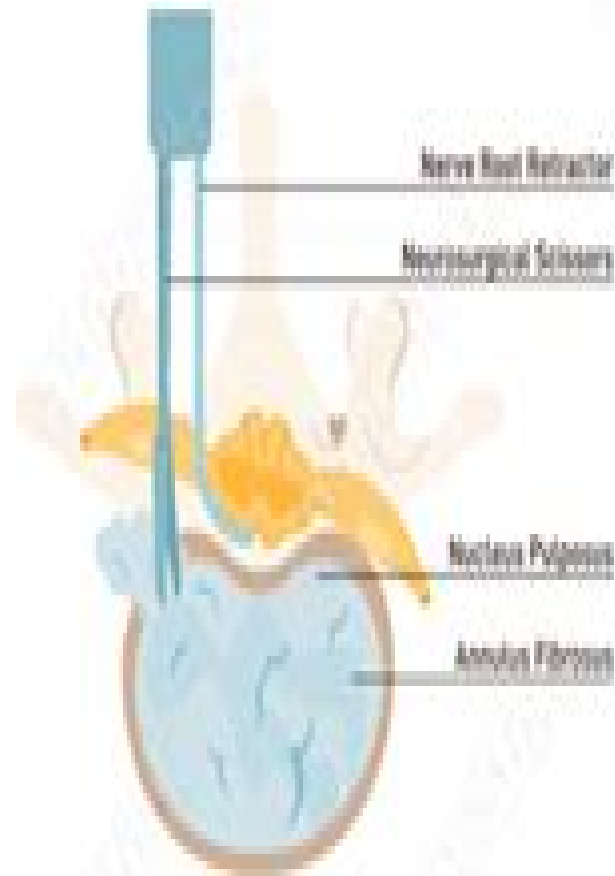


## Lumbar Microdiscectomy



## Spinal Disc Herniation



## Herniated Disc Surgery



### Herniated Part Of Disc Is Removed

# Arthroscopic Microdiscectomy

**Yong Ahn, Jin-Kyu Park, Chun-Kun Park**

## **Arthroscopic Microdiscectomy:**

Arthroscopic Microdiscectomy Parviz Kambin, 1991      *Arthroscopic and Endoscopic Spinal Surgery* Parviz

Kambin, 2007-10-28 The term minimally invasive spinal surgery was coined in early 1990 following publication of the first edition of this text entitled *Arthroscopic Microdiscectomy: Minimal Intervention in Spinal Surgery* and subsequent establishment of the International Society for Minimal Intervention in Spinal Surgery (ISMIS) under the auspices of the International Society of Orthopaedic Surgery and Traumatology (SICOT) in April 1990. The orthopedic and neurological surgeons who participated in lectures and hands-on workshops both in Philadelphia and abroad have witnessed the evolution of minimally invasive spinal surgery from blind nucleotomy to endoscopic fragmentectomy, decompression of lateral recess stenosis, foraminoplasty and spinal stabilization. In *Arthroscopic and Endoscopic Spinal Surgery: Text and Atlas, Second Edition*, experts describe and illustrate various techniques and approaches that are currently used in this field. In addition, the ongoing research for the betterment of spine care via minimally invasive approaches is briefly reviewed. I would like to express my sincere appreciation to so many of my colleagues who supported my efforts in the field of minimally invasive spinal surgery throughout the years. Many of them participated in our teaching symposiums and have provided valuable contributions to this text.

**Full Endoscopic Lumbar Discectomy** M. Hikmet Uluğ, A. Kadir Birler, 2021-10-05 This book is devoted to the full endoscopic transforaminal approach which is the beginning and basis of all spinal endoscopic interventions and was prepared digitally in Epub 3 format. It is planned to appeal to neurosurgeons and orthopedic surgeons who are new to or currently practicing endoscopic surgery. We gave wide coverage to endoscopic anatomy of the intervertebral foramen, the basis of a successful transforaminal intervention. All anatomical studies in the literature were reviewed and the anatomical structures that make up the intervertebral foramen were presented to the reader with endoscopic surgery videos. We hope that these videos will to some extent fill the lack of visual material in the field of endoscopic surgical anatomy. Preoperative planning is discussed under a separate chapter. Preoperative planning for different cases is clarified in detail and supported by rich radiology galleries. The basic stages of surgical intervention: spinal needle placement, discography, guiding rod and cannula placement are presented to the reader with anatomical models combined with surgical videos. Lumbar disc herniations are discussed in separate groups as non-migrated, migrated and extraforaminal herniations. To that end, the videos of 22 surgeries performed on 19 patients were included in the book as the case studies. In these case studies, pre-operative and post-operative radiological examinations of patients are presented to the reader in the galleries. Operative videos were specially edited and enriched with operative X-Ray images to provide anatomical orientation of the reader. Another feature of the book is its format. The frequently used hard copy format prevents the authors from using sufficient visual material. Using excessive visual material, especially in textbooks where radiological studies are predominant, breaks the connection between images and text and puts the reader in a challenging reading process. Current digital book formats, on the other hand, oblige

the reader to constantly access the video over the internet and then return to the text All visual material in Epub 3 format used in our book is embedded in the book Thus the reader can access any material in the text without an internet connection and without being distracted from the text and can watch the visual material on a full screen if desired The Epub 3 format also makes it easier for the reader to navigate and search within the book In addition when the reader downloads the book they have the opportunity to read it offline on their phone tablet or laptop whenever they desire Detailed info and example videos [www.endotextbook.com](http://www.endotextbook.com) [www.endodiscectomy.com](http://www.endodiscectomy.com) Key features 56 Galleries 72 Videos Anatomy preoperative planning needle cannula placement surgical technique 22 operative videos from 19 cases 3 D Drawings Model videos combined with surgery EPUB 3 Format Single format for both android and IOS Contents CHAPTER 1 HISTORY CHAPTER 2 NOMENCLATURE and DEFINITION CHAPTER 3 ENDOSCOPIC ANATOMY CHAPTER 4 PREOPERATIVE PLANNING CHAPTER 5 SURGICAL APPROACH CHAPTER 6 NON MIGRATED HERNIATIONS CHAPTER 7 FORAMINAL AND EXTRAFORAMINAL HERNIATIONS CHAPTER 8 MIGRATED HERNIATIONS CHAPTER 9 COMPLICATIONS REFERENCES

**Minimally Invasive Spine Surgery** H.M. Mayer, 2013-03-09 In the past few years spine surgery has undergone revolutionary changes leading towards minimally invasive techniques This book is a survey of microsurgical as well as endoscopic surgical techniques for the treatment of a variety of spinal disorders The structure of the individual chapters includes terminology history surgical principles advantages disadvantages indications surgical technique complications and hazards as well as results However all chapters are focused on a very didactic presentation of surgical steps Thus the reader will get familiar with a variety of new techniques some of which are already integrated into clinical routine others still being part of ongoing clinical trials and development *Core Techniques of Minimally Invasive Spine Surgery* Yong Ahn, Jin-Kyu Park, Chun-Kun Park, 2023-06-19 This book issues all aspects of minimally invasive spine surgery From interventional techniques such as nerve block to multilevel fusion surgery the field of minimally invasive surgery is organized by chapter from basics to the end Each chapter will include various figures and tables and videos will be added in the surgery related parts A special focus will be placed on spinal endoscopic surgery which has undergone rapid development in recent years Both full endoscopic spine surgery and uni portal bilateral endoscopic will be dealt Various surgical approaches and procedures will be presented for disc herniated disease and stenotic lesion from cervical to lumbar The new technology solution such as navigation guided spine surgery and robot surgery and artificial and augmented reality will be introduced

*Minimally Invasive Percutaneous Spinal Techniques E-Book* Daniel H. Kim, 2010-09-28 Minimally Invasive Percutaneous Spinal Techniques by Daniel H Kim MD FACS Kyung Hoon Kim MD and Yong Chul Kim MD helps you apply methods of spinal pain relief that involve less risk and shorter recovery times Focusing on the broad appeal of this goal for you and your patients this volume will help surgeons and specialists in various areas of pain management provide less invasive alternatives and faster recovery procedures for those suffering with spinal injuries Step by step techniques are well illustrated in the book

and demonstrated extensively online Get accurate step by step guidance by reviewing full color richly illustrated descriptions of various techniques Make the most of extensive surgical videos demonstrating many of the procedures from the book on expertconsult.com Reduce the risk associated with invasive spinal procedures by considering new perspectives on pain management techniques that can be used by specialists from various disciplines Address the growing need for less invasive surgeries with shorter recovery times among a large and aging population with musculoskeletal problems

**Benzel's Spine Surgery E-Book** Michael P. Steinmetz, Sigurd H. Berven, Edward C. Benzel, 2021-05-18 Written and edited by world renowned experts in the field Benzel's Spine Surgery Techniques Complication Avoidance and Management 5th Edition provides expert step by step guidance on the evaluation and management of disorders of the spine This definitive two volume work explores the full spectrum of techniques used in spine surgery giving you the tools you need to hone your skills and increase your knowledge in this challenging area Clearly organized and extensively revised throughout it features contributions from both neurosurgeons and orthopaedic surgeons to present a truly comprehensive approach to spine disease Offers a thorough overview of the effective management of patients with spinal disorders including fundamental principles biomechanics applied anatomy instrumentation pathophysiology of spinal disorders surgical techniques motion preservation strategies non surgical management and complication avoidance and management as well as controversies Focuses on both pathophysiology and surgical treatment of spine disease with an increased emphasis on minimally invasive surgery Contains new features such as key points boxes at the beginning of chapters and algorithms to help streamline the decision making process Covers today's hot topics in spine surgery such as health economics artificial intelligence predictive analytics new less invasive techniques including endoscopic spine surgery and the future of spine surgery Provides expert coverage of key topics including biomechanics of motion preservation techniques spinal injuries in sports biologics in spine fusion surgery anterior sub axial cervical fixation and fusion techniques complex lumbosacropelvic fixation techniques and many more Features more than 1 500 high quality illustrations as well as new procedural videos on en bloc spondylectomy minimally invasive endoscopic posterior cervical foraminotomy cervical total disc replacement minimally invasive lumbar decompression of stenosis and more Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

**The Disc and Degenerative Disc Disease** Luigi Manfrè, Johan Van Goethem, 2021-01-05 This easy to consult guide examines the most advanced techniques in the radiological evaluation of the disc and degenerative disc disease using conventional functional dynamic and advanced imaging It provides clear information on a range of CT X ray and MRI guided techniques presents all disc treatments in connection with symptomatic disc herniations evaluates conservative chemical ESI steroid Ozone ethanol gel injections and physical treatments coblation laser decompressors endoscopy and assesses the possibility of repairing and or regenerating the disc in the context of reversible disc degeneration Like other books in the Springer series New Procedures in Spinal

Interventional Neuroradiology this practice oriented volume will fill a significant gap in the literature and meet the need expressed by many specialists interventional neuroradiologists and radiologists neurosurgeons and orthopedists for a topical and handy guide that specifically illustrates the currently available materials and methods

**Interventional Pain Management: Image-Guided Procedures** P. Prithvi Raj, Leland Lou, Serdar Erdine, Peter S. Staats, Steven D.

Waldman, Gabor Racz, Michael Hammer, David Niv, Ricardo Ruiz-Lopez, James E. Heavner, 2008-07-28 Thoroughly revised and reorganized this 2nd edition offers you meticulous how to do it guidance on performing today's top radiographically guided regional anesthesia and pain management techniques Renowned experts explain how to make optimal use of fluoroscopy MRI and CT to pinpoint the exact anatomic site for each procedure Provides fluoroscopic MR and CT images coupled with distinct line drawings for each procedure to ensure proper positioning and easy application of techniques Offers easy to follow step by step descriptions addressing every aspect of patient positioning the use of radiographic solutions for tissue specific enhancement and correct techniques for anesthesia analgesia administration so you can be sure your patient will be pain free throughout the procedure Discusses possible complications to help you avoid mistakes Includes descriptions of procedures for each image guided technique as well as the approaches available for such imaging so you can choose the correct procedure for every patient Features two new sections Advanced Techniques and Emerging Techniques incorporates new procedures into the upper and lower extremity and head and neck chapters and revises all other chapters substantially to put you on the cusp of the latest advances in the field Uses nearly 1 600 crisp illustrations 50% new to this edition to illuminate every concept Presents a complete reorganization by body region and focused content to help you get to the information you need quickly

*Endoscopic Spinal Surgery* Kai-Uwe Lewandrowski, Sang-Ho Lee, Menno Ippenburg, 2013-02-27 Covers the latest developments in minimally invasive techniques now used in spinal surgery Applied anatomy indications and outcomes are all addressed by an international team of experienced contributors

*Laser Spine Surgery* Junseok Bae, Sang-Ho Lee, 2021-07-06 This book describes and illustrates state of the art techniques in laser spine surgery Laser technology has revolutionized surgeries in many specialties to perform minimally invasive and cutting edge procedures Recent advances in spinal surgery have led to the increasingly widespread use of minimally invasive techniques based on endoscopy and microscopy Nevertheless the application of laser in the context of spinal surgery remains less well known and the aim of this book is to present practical usage of laser in spine surgery to our readers A wide variety of minimally invasive approaches to spine surgery using CO2 Ho YAG and Nd YAG lasers are presented in detail with a discussion of equipment and specific recommendations on laser settings Care has been taken to ensure that the content is faithful to the fundamental principles of spine surgery and evidence based medicine The book will be an essential resource for all who use or are intending to use lasers in spine surgery

Unilateral Biportal Endoscopic Spine Surgery Dong Hwa Heo, Cheol Woong Park, Sang Kyu Son, Jin Hwa Eum, 2022-05-22 Biportal endoscopic spine surgery has been rapidly developed

recently and Unilateral biportal endoscopic spine UBE surgery may be new stream in spine surgery UBE surgery is a new concept of surgery that is different from the existing one portal endoscopic surgery and has the advantage of being familiar with spinal surgeons as the surgical anatomy is similar to a general surgical method and the learning curve period is short The 4mm diameter endoscope provides a very clear image and it can be safely operated under magnified and clear endoscopic view It is also available to use general surgical instruments in addition to endoscopic surgical instruments during UBE approaches Currently it is being performed not only in the lumbar spine but also in the cervical and thoracic spine In addition simple laminectomy disc removal and spinal fusion are possible With the advancement of UBE surgery spinal surgeons from various countries have been performing UBE in recent years and it is gradually spreading to the world This will be the first book summarizing from basic to advanced techniques with abundant illustrations and video aid for easy understanding Transforaminal Endoscopy for Lumbar Spine Sang-Ho Lee,Sang-Ha Shin,Junseok Bae,Sang-Joon Park,2023-05-30 Endoscopic spine surgery is the essence of the minimally invasive surgery technique It s a gradually developing field of spine surgery Nevertheless many doctors still have difficulties in acquiring an endoscope by themselves This is especially true for transforaminal approach endoscopy The editors of the book are pioneers in endoscopy and have had many interesting experiences related to transforaminal endoscopy Since each patient has a different anatomy and disc shape there are numerous practical techniques suitable for it but few are specifically able to describe it The main purpose of this book is to provide the essence of endoscopy to date based on actual video images and practical techniques of transforaminal endoscopy accumulated over decades **Surgical Approaches to the Spine** Robert G. Watkins, III,Robert G. Watkins, IV,2015-04-28 Now is its revised and expanded third edition including nine new chapters this step by step state of the art procedural manual covers over 50 unique surgical approaches for injuries and conditions of the spine Generously illustrated various surgical approaches to the cervical thoracic and lumbar spine are clearly enumerated and described including anterior lateral and posterior approaches and the worldwide movement toward the use of tubular retractors for a multitude of approaches Written and edited by leaders in the field of spine surgery this updated edition will be an invaluable resource for orthopedic surgeons neurosurgeons and sports medicine practitioners alike **Guiding Neurosurgery by Evidence** Bruce E. Pollock,2006-01-01 Guiding Neurosurgery by Evidence provides it readers with a succinct review of comtemporany neurosugrical practice when evaluated by evidence based medicine standards It begins with an introduction of concept and principles of evidence based medicine The subsequent chapters address the topics of brain tumor epidemiology benign adult brain tumore pediatric neurosurgery endovascular treatment of cerebrovascular disorders lumbar spine surgery minimally invasive spine surgery sterotactic readiosurgery trauma and the treatment of chronic pain disorders by neurostimulation Each chapter summarizes the available literature and grades it according to the quality of the evidence based medicine in neurosurgical highlights not only the usefullness of evidence based medicine in neurosurgical practice but

also its limitations with regard to neurosurgical disorders that are frequently rare and therefore impossible to evaluate in randomized clinical trials Neurological surgeons and neurologists both practicing physicians and residents in training will find in this publication valuable information about the practice of the different neurosurgical subspecialties by evidence based medicine standards

**Endoscopic Procedures on the Spine** Jin-Sung Kim,Jun Ho Lee,Yong Ahn,2019-09-03 This book aims to familiarize readers with the overall scope of endoscopic surgeries for the treatment of various types of spinal disease State of the art techniques for minimally invasive endoscopic procedures to the cervical thoracic and lumbar spine are precisely described The coverage includes cutting edge endoscopic solutions for spinal canal stenosis or instability and low back pain All technical aspects are explained in detail and the text is complemented by many helpful illustrations A further key feature is the provision of accompanying surgical videos which will be of value to both novice and experienced surgeons As a result of recent technological advances minimally invasive endoscopic procedures are now being used for the treatment of patients with spinal problems in various institutes across the world It can be anticipated that in the near future these procedures will be regarded as mainstream in spine surgery The authors hope that this book will motivate the reader to participate in this trend which promises important benefits for patients

**The Comprehensive Treatment of the Aging Spine E-Book** James J. Yue,Richard Guyer,J. Patrick Johnson,Larry T. Khoo,Stephen H. Hochschuler,2010-12-03 The Comprehensive Treatment of the Aging Spine provides all the state of the art coverage you need on both operative and non operative treatments for different clinical pathologies of the aging spine Dr James Yue and a team of talented pioneering orthopedic surgeons and neurosurgeons cover hot topics like minimally invasive fusion dynamic stabilization state of the art intraspinous and biologic devices and more in print and online Search the full text and access a video library online at expertconsult com Master the very latest techniques and technologies through detailed step by step surgical instructions tips and pearls Stay current on the state of the art in intraspinous and biologic devices such as Stent Alphatec and Optimesh Spineology thoracic techniques kyphoplasty vertebroplasty and spacers and conservative treatment modalities including injection therapies acupuncture and yoga Make expert guided decisions on techniques and device selection using the collective clinical experience of pioneering editors and contributors Identify the advantages and disadvantages for the full range of available microsurgical and endoscopic techniques for management of cervical thoracic and lumbar spine pathology minimally invasive fusion reconstruction decompression and dynamic stabilization

*Comprehensive Pain Management in the Rehabilitation Patient* Alexios Carayannopoulos DO, MPH,2017-06-14 Written in a succinct format this book presents a variety of pain conditions seen in acute or sub acute rehabilitation hospitals and in outpatient clinical settings Bio medical and bio psychosocial perspectives as well as theory clinical practice and practical aspects of managing pain are offered throughout this volume Chapters are organized by sections beginning with an introduction to pain as well use of the multi disciplinary treatment approach Additional sections cover headache management pain diagnostics medication management



rehabilitation injections and procedures behavioral management complementary and alternative medicine neuromodulation neuroablation surgical management of pain and novel techniques Business and legal perspectives of pain medicine are also addressed Comprehensive Pain Management in the Rehabilitation Patient is a handy resource for any medical interventional surgical rehabilitative behavioral or allied health provider who treats pain across the rehabilitation continuum

**Unilateral Biportal Endoscopy of the Spine** Javier Quillo-Olvera, Diego Quillo-Olvera, Javier Quillo-Reséndiz, Michael Mayer, 2022-12-01 Endoscopic spinal surgery has become popular due its procedure related benefits The biportal endoscopic surgery is a recent technique which has gained popularity in Asia Europe and Latin America since it can be applied to treat many diseases of the whole spine as cervical thoracic lumbar and sacral Divided into thirty four chapters this first ever book on unilateral biportal endoscopic spine surgery presents the technique history review and its current applications the currently available technology and basic principles of this surgery anesthesia position and operative room setup endoscopic instruments hydrostatic pressure and intraoperative radiology as well as anatomical considerations of basic approaches It also details the techniques to resolve lumbar cervical and thoracic spine diseases Written by the world s most influential groups that perform the method Unilateral Biportal Endoscopy of the Spine An Atlas of Surgical Techniques will certainly be widely accepted by all surgeons interested to improve their daily practice in minimally invasive spine surgery Mastering Orthopedic Techniques Spine Surgery Garg Bhavuk, Malhotra Rajesh, 2013-12-15 Spine surgery has come to the age into the new millennium This is an efficient technical guide designed easy to use concise and accurate how to reference for spine surgeons and residents in training who wish to attack a broad range of challenges in techniques of spine surgery The world s foremost spine surgeons from USA UK Europe and Asia describe their preferred techniques in step by step approach explaining the indications and contraindications identifying pitfalls and potential complications Improvement in technology and innovation has given spine surgery a new vision as well as a practical proposition The book has been written in an atlas format and this one of a kind book offers a comprehensive coverage of all practical aspects of operative spine surgery Covering the conventional as well as modern minimally invasive techniques to address various spine pathologies all masters in the field present a clear layout more than 400 high quality excellent illustrations and masterly tips and pearls to make a difficult spine surgery possible even for an average spine surgeon The detailed operative steps plus all the images make the book a handy companion for all involved in operative spine care

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