Surgical Management Of Low Back Pain A Co Publication Of Thieme And The American Association Of Neur

Discussion Papers

Spine Disorders

Low back pain is one of the commonest conditions seen in general practice. This book has therefore been written to make it easier for GPs to manage low back pain by providing a simply written guide to give the GP an invaluable perspective on management.

Evidence-Based Management of Low Back Pain - E-Book

"Larson and Maiman have pioneered both the study of the lumbar spine, as well as the surgical and non-surgical management of lumbar spine pathology. A comprehensive treatise clearly enhances the surgeon's ability to care for patients with lumbar spine pathology; most importantly; it significantly advances the field." -- Edward C. Benzel, MD (from the foreword)

Written by two of the most distinguished leaders in modern spine surgery, this book provides "everything you need to know" regarding surgery of the lumbar spine. Throughout, you will find an emphasis on incorporating biomechanics into clinical decision-making, with detailed coverage of anatomy and pathology, fusion principles, and surgical approaches. Lumbar spine-specific pathology is addressed from an anatomical, clinical, and therapeutic point of view. Plus, you will benefit from the authors' frank discussions of techniques, complications, and surgical "pearls." The numerous high-quality drawings aid the discussion in providing a thorough understanding of the surgical procedures used in the lumbar spine. Surgery of the Lumbar Spine: An invaluable book for resident and experienced surgeon alike. Highlights of this outstanding work include: Provides a comprehensive view of lumbar-spine pathology and treatment Straight talk from experienced surgeons on techniques and complications A unique approach to clinical decision making that stresses biomechanics Hundreds of clear photographs and descriptive surgical drawings

The Neck Pain Guide

This manual, written for healthcare professionals, explores the pros and cons of a wide range of currently practiced rehabilitation methods, and includes tests, illustrated exercises, and worksheets for evaluating patients.
Low Back Pain

Low back pain is a very common problem that is increasingly being treated surgically. This book aims to evaluate carefully the possible surgical approaches to low back pain, with detailed appraisal of the factors leading to their success or failure. It begins by explaining the scientific basis for surgery and considering the different diagnostic techniques that may be employed, thereby elucidating the surgical rationale, indications, and contraindications. The value of conservative options is also assessed to help the reader weigh the need for surgery. The various surgical modalities, including the most recent, are then fully described and evaluated with the aid of numerous illustrations. The book concludes with a chapter devoted to evidence-based analysis of the outcome of surgery in patients with low back pain. This book will be invaluable to orthopaedic and neurosurgeons, rheumatologists, neurologists, and all who are concerned with the effective treatment of this often debilitating condition.

Non-Operative Treatment of the Lumbar Spine

The Seventh Edition of this textbook is built upon the peer-reviewed literature and research studies in the diagnosis and treatment of low back and radicular pain, focusing on the nonsurgical chiropractic adjusting methods. This text is the culmination of twelve years of updated research and development of spinal manipulation. From spinal stenosis to rehabilitation of low back pain patients to the latest treatise on fibromyalgia, you’ll find it all in Low Back Pain, Seventh Edition.

Rehabilitation Protocols for Surgical and Nonsurgical Procedures: Lumbar Spine

Surgery for Low Back Pain

Surgical Management of Pain, Second Edition, is a completely updated state-of-the-art reference on neurosurgical pain management. This new edition is in full color and includes the following sections: Anatomic and Physiologic Foundations for Nociceptive and Neuropathic Pain, Pain Medicine, Pain Diagnoses, Surgical Procedures for Pain, and New Directions for Pain Surgery. The chapters in the book focus on procedures that are currently performed by neurosurgeons to relieve pain. Key Features: Emphasizes best evidence treatment options free online access to videos demonstrating surgical techniques described in the book Explores nonsurgical and pharmacologic methods of pain control Beautifully illustrated drawings convey the wisdom of expert surgeons This book is a must-have for all neurosurgeons treating patients suffering from acute and/or chronic pain.

Surgery of the Lumbar Spine

Treatment of Chronic Pain Conditions

Chemonucleolysis

In this volume, world authorities on spinal surgery from the fields of Neurosurgery, Orthopaedic Surgery, and Neuroscience present current data on the basic science and clinical management of the unstable spine. Unique to this book: a frank presentation of controversies in the field.

Understanding Low Back Pain

The learning curve in the management of painful degenerative lumbar spine patients is steep because every case has singular characteristics. Surgical Care of the Painful Degenerative Lumbar Spine: Evaluation, Decision-Making, Techniques by Edgar Weaver reflects more than 35 years of neurosurgical practice devoted to refining degenerative spine disease
Management of Low Back Pain in Primary Care

Assesses low-back pain and problems, and establishes a successful plan for treatment. This monograph includes both surgical and non-surgical treatment options for low-back pain.

Surgical Management of Low Back Pain and Degenerative Spinal Disorders

Surgical Management of Low Back Pain and Degenerative Spinal Disorders.

Spine Surgery in an Aging Population

Dr. George M. Ghobrial's handbook for neck pain encompasses all aspects of diagnosis and care of acute and chronic neck pain: early and late management, resources, facilities, physicians and other healthcare providers and their roles, medication, physical therapy, imaging, as well as surgical and nonsurgical treatments. The Neck Pain Guide follows the recently published book of the Spine Health Learning Series, The Low Back Pain Guide (2019), with the goal to answer the most common questions encountered in the clinic and emergency department about neck pain. Using over 60 illustrations, Dr. Ghobrial introduces the anatomical and clinical issues related to degenerative disorders of the spine in a clear manner, explaining many terms such as disc herniations, spondylosis, degenerative disc disease, radiculopathy, and more. Topics include: common diagnostic imaging techniques such as X-ray, CT, MRI, as well as spinal injections, physical therapy, electrodiagnostic testing, discectomy, foraminotomy, laminotomy, fusion, disc replacement, scoliosis, bracing, minimally-invasive surgery, endoscopic surgery, laser spine surgery, and other emerging topics such as 'stem cell' injections and more. Suffering From Acute Neck and Arm Pain? Overwhelmed by the vast treatment options and not sure which to start with, or where to go? The Neck Pain Guide is a unique and comprehensive reference to assessing acute neck pain. Learn about concerning red flag symptoms, understand the available resources, and learn commonly avoidable options such as opiates and early imaging and invasive pain treatments. Nearly 100 of the most common questions asked by patients in the clinic, are answered in a clear manner, including over 200 references for easy review. Dr. Ghobrial reinforces a system that may help patients organize and guide their own care more efficiently, limit redundancy and waste, and expedite their journey to alleviate pain. Moreover, this guidebook teaches a basic process to confidently assess the evidence behind healthcare and advertising treatment claims, including over 200 references for easy review. Dr. Ghobrial reinforces a system that may help patients organize and guide their own care more efficiently, limit redundancy and waste, and expedite their journey to alleviate pain. Moreover, this guidebook teaches a basic process to confidently assess the evidence behind healthcare and advertising treatment claims, including over 200 references for easy review. Dr. Ghobrial reinforces a system that may help patients organize and guide their own care more efficiently, limit redundancy and waste, and expedite their journey to alleviate pain. 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AO Spine Textbook

This book aims to dispel the myths about motor control and the "core" and provide the most up to date insight into the practical application of the latest research in the management of chronic low back pain. It also provides a systematic approach and specialized skills in evidence based diagnosis and treatment for mechanical low back pain disorders. The spine problems addressed in this book are very challenging ones for doctors and therapists alike, and the author had use the first hand experience with patients to break new ground using advance Physiotherapy Techniques.

Diseases of the Brain, Head and Neck, Spine 2020-2023

This comprehensive text is the most current and definitive source for information related to the care of adult and pediatric patients with spondylolisthesis. It contains a complete analysis of this common, yet intricate spinal condition, including basic science, diagnosis, non-surgical management, surgical techniques (including minimally invasive options) and outcomes. The management of the various types of spondylolisthesis requires a thorough understanding of both fundamental principles and subtle nuances, which are highlighted here in three sections. Part I details the basic principles, diagnosis and non-surgical management of spondylolisthesis, including imaging and classification. Part II covers surgical management, including a step-by-step discussion of strategies, techniques and tips that are necessary to apply standard procedures to this specific disorder. Procedures that are covered include decompression, spinal fusion from various approaches, and the latest minimally invasive techniques. Part III discusses the outcomes and complications of surgical treatment. Written and edited by top clinicians in the field, this book will be an invaluable resource for orthopedic and neurological spine surgeons, rehabilitation physicians, residents, fellows, and any caregiver who treats the spine.

Textbook of Surgical Management of Lumbar Disc Herniation

Founded by four Swiss surgeons in 1958, AO Spine is a premier knowledge provider in spine surgery and at the forefront of education and research. Endorsed by AO Spine, this book is a comprehensive guide to the management of spinal disorders. Beginning with a general overview of the spine and its physiology and biomechanics, the next section extensively covers the paediatric spine and associated disorders. The following sections discuss conditions found in the different anatomical sections of the spine – cervical, thoracic and lumbosacral – and their history, physical examination, diagnosis and surgical and non-operative management techniques. The final part of the book explores future trends in spine surgery. Authored by leading US-based neuro and orthopaedic surgeons, this textbook is highly illustrated with more than 650 surgical images, diagrams and tables. Key points Comprehensive guide to surgical and non-operative management of spinal disorders Endorsed by AO Spine committee Covers diagnosis and treatment of numerous conditions in each section of the spine Highly experienced and renowned, US-based author team

Surgery of the Spine and Spinal Cord

All physicians are involved in the management of pain at some level or the other, but of the various specialties and health professions, orthopedic surgeons are at the frontline of delivering perioperative pain care for a wide variety of problems that range from skeletal trauma, joint replacement procedures, bone tumors and spinal conditions. Perioperative Pain Management for Orthopedic and Spine Surgery offers a concise yet comprehensive overview of the surgical spine pain management field to help practitioners effectively plan and enhance perioperative pain control. Chapters provide guidance on solving common dilemmas facing surgeons who are managing patients with pain related problems and clinical decision-making, and explore essential topics required for the trainee and practitioner to quickly assess the patient with pain, to diagnose pain and painful conditions, determine the feasibility and safety of surgical procedure needed, and arrange for advanced pain management consults and care if needed. This text also explores the latest evolving techniques and appropriate utilization of modern equipment and technology to safely provide care. Highly accessible and written by experts in the field, Perioperative Pain Management for Orthopedic and Spine Surgery is an ideal resource for practicing orthopedic and spine surgeons, anesthesiologists, critical care personnel, residents, medical students.

Spine

Doody Rating: 3 stars: In a value-based healthcare system, physicians will be required to demonstrate that the procedures they perform and treatment they provide have value. Written
by international experts in the field, this book provides the reader with an understanding of value as defined within the context of spine care delivery. There is a specific focus on the outcome and cost measures that comprise the value equation. The concepts and methodology of cost-effectiveness analysis, the Quality Adjusted Life Year (QALY), and comparative effectiveness research are discussed in a clear and comprehensive fashion. After reading this book, the reader will be armed with the tools necessary to measure the value of the care that they provide and to keep pace with the rapid evolution of our value-based health care delivery system. This book is useful for orthopaedic surgeons and spine care specialist.

Spondylolisthesis

This open access book offers an essential overview of brain, head and neck, and spine imaging. Over the last few years, there have been considerable advances in this area, driven by both clinical and technological developments. Written by leading international experts and teachers, the chapters are disease-oriented and cover all relevant imaging modalities, with a focus on magnetic resonance imaging and computed tomography. The book also includes a synopsis of pediatric imaging. IDKD books are rewritten (not merely updated) every four years, which means they offer a comprehensive review of the state-of-the-art in imaging. The book is clearly structured and features learning objectives, abstracts, subheadings, tables and take-home points, supported by design elements to help readers navigate the text. It will particularly appeal to general radiologists, radiology residents, and interventional radiologists who want to update their diagnostic expertise, as well as clinicians from other specialties who are interested in imaging for their patient care.

Defining the Value of Spine Care

This book offers essential guidance on selecting the most appropriate surgical management option for a variety of spinal conditions, including idiopathic problems, and degenerative disease. While the first part of the book discusses the neuroanatomy and biomechanics of the spine, pain mechanisms, and imaging techniques, the second guides the reader through the diagnostic process and treatment selection for disorders of the different regions of the spine, based on the principles of evidence-based medicine. I.e., it clearly explains why a particular technique should be selected for a specific patient on the basis of the available evidence, which is carefully reviewed. The book identifies potential complications and highlights technical pearls, describing newer surgical techniques and illustrating them with the help of images and accompanying videos. Though primarily intended for neurosurgeons, the book will also be of interest to orthopaedic surgeons, specialists in physical medicine, and pain specialists.

Spine Surgery

Managing Low Back Pain

A succinct reference that fosters a rapid mastery of the key concepts and core knowledge in spine surgery. It begins with a review of spinal anatomy and the examination techniques most relevant to the diagnosis of suspected spinal disorders. The remainder of the book progresses logically from the most commonly seen clinical problems to the least frequently encountered ones, and outline the appropriate management techniques, both surgical and non-surgical. With an authorship composed primarily of members of the acclaimed Rothman Institute spine surgery staff, this book embodies a consistent, cohesive approach based on a wealth of hands-on experience.

Perioperative Pain Management for Orthopedic and Spine Surgery

Percutaneous lumbar discectomy is a new surgical method for treating lumbar disc diseases. The goal of the procedure is decompression of the spinal nerve root by percutaneous removal of the nucleus pulposus under local anesthesia. Probably 20 % of all patients requiring lumbar disc surgery can be successfully treated by this method. During the past two years, percutaneous discectomy has spread rapidly, and it is now performed in most clinical departments engaged in spinal surgery. The first International Symposium on Percutaneous Lumbar Discectomy, held in Berlin in August 1988, covered all current procedures known as "percutaneous discectomy" and the entire range of percutaneous techniques, both clinical and experimental. Its publication is important because of the recency of this new surgical procedure, the outstanding experience of the speakers - including the Japanese, American, and European "pioneers" of the technique - and last but not least the gaps in the knowledge of physicians concerning this topic. This procedure opens up new perspectives in the surgical treatment of degenerative diseases of the lumbar spine.
Surgical Care of the Painful Degenerative Lumbar Spine

An essential, one-stop reference guide to the evaluation and treatment of patients with cervical, thoracic and lumbar spine disease. Based on a course taught by these highly respected authors at the American Academy of Neurology's Annual Meeting, this volume gives concise descriptions of the anatomy of spine conditions; neurologic and physical findings; advice on diagnostic tests and when to order them; and medical and surgical treatment options. Commonly performed spinal procedures are also described, including the rapidly changing field of minimally invasive surgery. Pitfalls of evaluating and treating spine patients are highlighted, along with advice on how to approach the patient who does not improve or worsens after spine surgery. Spine Disorders: Medical and Surgical Management is an essential purchase for all practitioners in this field.

Surgical Management of Low Back Pain

Presenting the 4th edition of this excellent text, with the expertise of 19 leading specialists representing the fields of orthopedic surgery, neurosurgery, osteopathy, physical therapy, and chiropractic. These authorities bring you comprehensive, multidisciplinary guidance on low back pain diagnosis, prevention, and education. And, they detail the best of today's surgical treatment approaches as well as the most effective manual manipulation methods. New chapters on multidisciplinary rehabilitation programs, manual therapy, the worker and low back pain, distinguishing between easy and difficult conditions, and more. Integrates the expertise of 15 leading specialists representing the fields of orthopedic surgery, neurosurgery, osteopathy, physical therapy, and chiropractic medicine. Examines a full range of treatment options, including manual manipulation methods and surgical treatment approaches. Illustrates all key structures, lesions, and treatment techniques with nearly 300 superb photographs, diagrams, and radiographs. Provides a wealth of specific management how-tos, pearls, and pitfalls. Offers an in-depth understanding of the physical and mathematical principles that underlie lower back pain syndromes. Reviews anatomy, pathology, biomechanics, and concepts of pain mechanisms.

Surgical Management of Pain

Practice guidelines have recently become prominent as a response to rising health care costs, reported regional practice variations, and reports of 'inappropriate' medical care. They are now expected to meet a number of agendas, including improvement of the quality of health care, protection of professional autonomy, reduction of litigation risk, minimization of practice variation, provision of standards for auditing medical records, reduction of health care costs (and therefore health care premiums), defining areas of practice, improvement in efficiency of practice, and identification of inappropriate care. The federal government has become particularly interested in guideline development and promotion of their development in the interest of rising health care costs and the extreme variation in medical practice noted nationally. This volume is intended for all spine care practitioners. It challenges its readers to weigh the recommendations of the authors against those of the Agency for Health Care Policy Research (AHCPR) Guideline Number 14: Acute Low Back Problems in Adults. The chapters are personal opinions of the individual authors, based on published scientific studies, their own writings, and, more importantly, their clinical experiences. The author of each topic-based chapter indicates agreement or disagreement with the guidelines and provides literature and experience-based reasons for their position. Specific clarification of the references cited by the AHCPR is included where appropriate, and newer literature available since the AHCPR guidelines were written is provided. The reader is encouraged to attempt to understand the rationale of the guideline's authors and decide on the veracity of the guidelines versus the chapter author's or the reader's own information and experience. In this manner, a thoughtful reexamination of our thinking regarding the management of acute low back pain will occur, and the missions of both the AHCPR and the editors of this book will be fulfilled. Chapter 1 describes the backdrop for the proliferation of guideline development from a historical perspective, outlines the methodologies used in development of guidelines, and discusses the effectiveness of guidelines on patient care and practice behaviors. Chapter 2 is an overview of practice guidelines in general. The book is divided into several sections, detailing assessment and management. A significant portion of the book deals with diagnostic and therapeutic injection techniques in response to the growing popularity of these modalities. Because the AHCPR guidelines rely on statistical odds that most acute LBP will resolve on its own, the guidelines invoke a 'wait and see' approach for the first three months unless red flags exist. This is in sharp contrast to what the general medical community and patients with low back pain would generally opine. Herein was the basis for the enormous counter-reaction to the guidelines. Because only a distinct minority of acute LBP patients present with frank radiculopathy and serious spinal conditions, most patients with nonspecific LBP do fall into the group that will see resolution with a less aggressive approach. However, serious questions remain: Will this approach do more harm than good? Will adhering to the guidelines increase the likelihood of an acute episode of LBP turning into chronic LBP, at greater suffering and expense to the individual and society? Will patient satisfaction, a recognized outcome measure, erode because of this approach? This volume provides the basis on which to evaluate these problems and their eventual resolution.
An invaluable primer on the surgical and nonsurgical treatment of aging patients with spine conditions. The growing population of people aged 65 and older has significant implications for health care systems and spine care providers. Older patients today demand interventions that enable them to return to a functional lifestyle. Treatment of degenerative spine disease in aging adults requires in-depth understanding of changes in physiology, biomechanics, function, and modifiable risk factors. Equally important, providers need to listen to patients, diagnose thoughtfully, learn about the person's goals, and teach them in plain language about the risks, alternatives, and expectations of treatment options. This foundation is critical to developing informed patient-centered treatment plans to improve outcomes. Spine Surgery in an Aging Population by Nathaniel Brooks, Andrea Strayer, and a cadre of global contributors reflects a rich array of expertise. With multidisciplinary contributions from renowned specialists in neurosurgery, orthopaedic surgery, geriatrics, and rehabilitation, the book provides invaluable insights on caring for aging adults with degenerative spine disease. Throughout 21 chapters, readers are provided with key concepts, expert knowledge, and effective management strategies to avoid complications and improve outcomes for older adult spine patients. Key Highlights Diagnosis and treatment of osteoporosis to help prevent fractures and optimize treatment approaches prior to elective surgery Management of common pathologies of the aging spine such as cervical spondylosis, lumbar stenosis, spondylolisthesis, degenerative scoliosis and trauma Special topics include value-based care, nonsurgical management of spinal pain, vertebral augmentation, minimally invasive surgery, and instrumentation considerations. This one-stop compendium is essential reading for orthopaedic and neurosurgical residents and fellows, as well as veteran surgeons and allied health providers who care for older adults with spine conditions.

**The Lumbar Spine**

This book covers the content of European postgraduate spine surgery courses, using a case-based approach. It describes a stepwise solution to a real-world clinical problem and compares this with the best available evidence. It then provides suggestions on how to bridge the gap (if there is one) between standard of care and evidence-based medicine. Spine Surgery: A Case-Based Approach is aimed at postgraduate students of spine surgery (both trainee neurosurgeons and trainee orthopedic surgeons), and is also of interest to medical students.

**Spinal Instability**

The Spine: Medical and Surgical Conditions is a complete, two volume, evidence based study edited by an internationally recognised team of spine surgeons based in the USA, China, Canada, Germany, Japan, Brazil, Egypt and India. The two volumes are divided into 137 chapters, across fourteen sections. The first section covers general topics in spinal medicine, including anatomy, biomechanics, physical and neurological examination, interventional diagnostics and therapeutics, and anaesthesia. This is followed by sections on the development of the spine, metabolic disorders, and bone grafting. Subsequent sections focus on surgery for particular parts of the spine, including cervical, lumbar and thoracic, as well as sections on spinal cord injuries and motor preservation. Later sections in the book provide information on the spine in paediatrics, adult deformity, tumours, vascular malformations and infections, complications of spinal surgery, and a final section on minimally invasive techniques. Enhanced by 1500 full colour images, The Spine: Medical and Surgical Conditions is also made available online, complete with text, images and video, with each physical copy. Key Points Comprehensive, two volume guide to spinal medicine Covers anatomy, biomechanics, examination, diagnostics, therapeutics, anaesthesia, surgery and complications Enhanced by 1500 full colour images Includes access to online version with complete text, images and video

**Surgical Management of Low Back Pain**

This volume describes the variety of techniques and instrumentation devices that have been developed for lumbar spinal fusion and critically assesses the use of these devices for treatment of degenerative lumbar disorders. Leading international experts present views of the major controversies surrounding surgical management of degenerative low back pain - whether and when fusion is indicated, which techniques and devices to use, and how to evaluate results.

**Instrumented Fusion of the Degenerative Lumbar Spine**

Bridging the gap between the medical literature and the practice of lumbar spine medicine, this user-friendly, accessible text describes the causes of lower back pain and associated “sciatic” pathologies and how these problems can be successfully treated without surgery. Beginning with a review of the anatomy of the lumbar spine and the most common causes of lower back pain, diagnostic and management strategies for a variety of conditions are discussed, including discogenic pain, facet joint pain, sacroiliac joint pain, spondylolisthesis,
lumbar radiculopathy, piriformis syndrome, spinal stenosis, and compression fractures. Chapters on epidural steroid injections, exercises for lower back pain and alternative treatments follow, as well as when it is appropriate to recommend surgery. The second section of the book is devoted to numerous clinical scenarios in which evidence based medicine is applied to actual clinical cases. Non-Operative Treatment of the Lumbar Spine will be a valuable reference for orthopedists, rheumatologists, physiatrists, pain management specialists, neurologists, and anyone treating patients with lower back pain.

**Advance Physiotherapy Techniques for Chronic Low Back Pain**

**The Nonsurgical Management of Acute Low Back Pain**

Covering all commonly used interventions for acute and chronic low back pain conditions, Evidence-Based Management of Low Back Pain consolidates current scientific studies and research evidence into a single, practical resource. Its multidisciplinary approach covers a wide scope of treatments from manual therapies to medical interventions to surgery, organizing interventions from least to most invasive. Editors Simon Dagenais and Scott Haldeman, along with expert contributors from a variety of clinical and academic institutions throughout the world, focus on the best available scientific evidence, summarizing the results from the strongest to the weakest types of studies. No other book makes it so easy to compare the different interventions and treatment approaches, giving you the tools to make better, more informed clinical decisions. A multidisciplinary approach covers treatments from manual therapies to medical interventions to surgery, and many others in between. An interdisciplinary approach enables health care providers to work together. A logical, easy-to-follow organization covers information by intervention type, from least invasive to most invasive. Integration of interventions provides information in a clinically useful way, so it's easier to consider more than one type of treatment or intervention for low back pain, and easier to see which methods should be tried first. 155 illustrations include x-rays, photos, and drawings. Tables and boxes summarize key information. Evidence-based content allows you to make clinical decisions based on the ranking the best available scientific studies from strongest to weakest. Patient history and examination chapters help in assessing the patient's condition and in ruling out serious pathology before making decisions about specific interventions. Experienced editors and contributors are known authors, researchers, and teachers, well known in the areas of orthopedics, pain management, chiropractic, physical therapy, and behavioral medicine as well as complementary and alternative medicine; the book's contributors include some of the leading clinical and research experts in the field of low back pain. Coverage based on The Spine Journal special issue on low back pain ensures that topics are relevant and up to date. A systematic review of interventions for low back pain includes these categories: patient education, exercise and rehabilitation, medications, manual therapy, physical modalities, complementary and alternative medicine, behavioral modification, injections, minimally invasive procedures, and surgery. Surgical interventions include decompression, fusion, disc arthroplasty, and dynamic stabilization. Additional coverage includes patient education and multidisciplinary rehabilitation.

**The Spine: Medical & Surgical Management**

An authoritative text in the field of the lumbar spine. Includes material on the etiology of pain, diagnosis by use of modern contrast agents in MRIs, and information on actual surgical technique. WHAT'S NEW: Provides the most up-to-date research and clinical expertise available with 50% to 60% new material - including coverage of MRI, the etiology of pain and current surgical techniques. Contributions from a multitude of new authors offer a fresh, innovative perspective to this brand new edition and special area of orthopaedic medicine. OUTSTANDING FEATURES: Makes reference easy by first presenting an overview of the lumbar spine which includes epidemiology and anatomy. Offers guidance on proper diagnosis as well as medical and surgical management of lumbar disorders. Expands the readers perspective with contributions from leading specialists in orthopedics, neurosurgery, neurology, rheumatology, and physical therapy.

**Non-surgical Management of Low Back Pain and Its Electrophysiological Assessment**

The second edition presents the current diagnostic and surgical treatments for low back pain as well as the anatomic and physiologic rationale for their application. New sections cover the evidence-based assessment of emerging biological strategies for the treatment of degenerative disk disease and more.

**Percutaneous Lumbar Discectomy**

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There is an unmet need in both acute and chronic care settings for a comprehensive, clinically focused, fast reference on pain management. Written by high-profile, internationally recognized experts in the field, Pain Treatment for Acute and Chronic Conditions: A Comprehensive Handbook is one of the first manuals of its kind to provide balanced and comprehensive coverage of pain medicine modalities. The book is structured into sixteen sections with each chapter providing key points for quick reference, followed by a more detailed overview of the topic at hand with extensive tables and figures to illustrate. Beautifully laid out and extensively furnished with both research and experience, this book is a necessary resource in the field of pain medicine.

**Spine Surgery**

Are you one of the millions of people who suffer from low back pain? While it is important that patients with low back pain educate themselves about the lower back, the information available is often more confusing than it is helpful. A single source of information should not be taken as the only truth, as this can lead to misconceptions and misunderstandings in the diagnosis and treatment of low back pain. According to author Mario A. Gutierrez, MD, not all patients with low back pain are the same, and not all back conditions have a common cause. Dr. Gutierrez draws on more than twenty years of neurosurgery experience and direct patient contact to guide back pain sufferers in their quest for reliable information and diagnosis with topics such as: Causes of low back pain Current treatments for low back pain Low back surgery options Treatment myths Rehabilitation Health insurance/disability Prevention Whether you're a patient seeking answers, an aspiring medical professional, or a practicing physician, Understanding Low Back Pain is a must-have reference, complete with medical terminology, a short medical glossary, and frequently used medical abbreviations.

**Decision Making in Surgical Treatment of Chronic Low Back Pain**

Low back pain and sciatica may often be attributed to herniation of the lumbar intervertebral disc. This book is a comprehensive guide to surgical procedures for the management of lumbar disc herniation. Divided into seven sections, the first few chapters discuss historical aspects and basics, and radiological investigations. The following section provides in-depth coverage surgical techniques for different lumbar spine disorders. Each procedure is described step by step, with intraoperative photographs and diagrams helping to explain the methodology. The final sections examine complications and follow up. This invaluable manual is authored by internationally acclaimed spinal surgeons, and is commissioned by the World Federation of Neurological Societies (WFNS). Key points Comprehensive guide to surgical procedures for management of lumbar disc herniation Covers procedures for numerous associated disorders Authored by internationally acclaimed spinal surgeons Commissioned by WFNS