

# Surgical Management of Low Back Pain

Daniel K. Resnick  
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# Surgical Management Of Low Back Pain Neurosurgical Topics

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**Guiding Neurosurgery by Evidence** B.E. Pollock,2006 Guiding Neurosurgery by Evidence provides its readers with a succinct review of contemporary neurosurgical practice when evaluated by evidence based medicine standards It begins with an introduction of the concept and principles of evidence based medicine The subsequent chapters address the topics of brain tumor epidemiology benign adult brain tumors pediatric neurosurgery endovascular treatment of cerebrovascular disorders lumbar spine surgery minimally invasive spine surgery stereotactic radiosurgery 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 In addition this book highlights not only the usefulness 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

*Congress of Neurological Surgeons Essential Papers in Neurosurgery* Najib E. El Tecle,Tarek Y. El Ahmadi,Salah G. Aoun,Bernard Bendok,2020-12-16 The Congress of Neurological Surgeons Essential Papers in Neurosurgery brings to the neurosurgical community a unique collection of critically appraised neurosurgical papers shedding light on some of the most impactful studies in the history of the field This book is equally suited for neurosurgery residents practicing neurosurgeons and anyone interested in evidence based clinical neuroscience The body of literature covered in this book has in many ways defined the gold standards of neurosurgical practice and is a must know for every student of neurosurgery

*Macnab's Backache* Ensor Transfeldt,Ian Macnab,2007 Macnab s Backache Fourth Edition is an enhancement and update of Ian Macnab s classic principles of spinal anatomy and pathology which form the cornerstones of clinical evaluation and treatment of spinal disorders This edition is geared to practitioners in a wide variety of specialties and emphasizes the initial evaluation and treatment of patients with back pain and or sciatica The book thoroughly describes and illustrates the pathoanatomy of various spinal disorders and its correlation with clinical symptoms Also included are chapters on history taking examination of the back differential diagnosis of low back pain pain management and a new chapter on injections

*Ethical And Legal Issues In Modern Surgery* Nadey S Hakim,Vassilios E Papalois,Miran Epstein,2014-12-18 Over the last quarter of a century the fields of medical ethics and of legal issues related to medical practice have rapidly developed for a number of reasons Firstly the provision of healthcare

nowadays is based on a complicated partnership between healthcare providers patients administrators and organizations responsible for providing finance this complicated partnership frequently results in clashes of views opinions and priorities which have a major ethical and legal dimension Secondly a major event of the 21st century is the development of multicultural societies healthcare related decisions thus have to be made on the background of so many different ethnicities religions cultures and languages resulting in a great spectrum of ethical and legal implications Thirdly in the modern world people are more mobile and can easily and cost effectively seek treatment outside of their country of origin or residence which raises many ethical and legal issues Lastly the development of new medical specialties modern and advanced treatments for very challenging patients and the introduction of new technologies in medical practice have dramatically broadened the spectrum of ethical and legal issues related to medical practice This book will therefore aim to cover in detail general principles and specific issues related to the ethical and legal dimensions of modern surgical practice

**The Spine: Medical & Surgical Management** Alexander Vaccaro, 2019-04-30 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

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*Surgery of the Spine and Spinal Cord* Erik van de Kelft, 2016-07-04 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

*Computational Neurosurgery* Antonio Di Ieva, Eric Suero Molina, Sidong Liu, Carlo Russo, 2024-11-10 This comprehensive and authoritative reference presents the state of the art computational methods applied to the field of neurosurgery The book brings together leading neuroscientists neurosurgeons mathematicians computer scientists engineers ethicists and lawyers to open the new frontier of computational neurosurgery to a broad audience interested in the translational field of the application of computational models such as deep learning to the study of the brain and the practical applications of neurosurgery The focus is primarily clinical and there is a solid foundation of research aspects With forewords by Michael L J Apuzzo and Enrico Coiera the book is organized into 2 sections 1 tenets of computational modeling artificial intelligence computational analysis and analysis software 2 computational neurosurgery applications including neurodiagnostics neuro oncology vascular neurosurgery all the neurosurgical disciplines surgical approaches intraoperative applications and ethics and legal aspects

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Fong,2011-03-22 The aim of this book is not to encourage defensive medical practice but to help provide better optimum care to patients and to be forth right and honest to our dear customers about our inevitable mistakes This book will focus on clinical issues facing physicians in different settings which can lead to malpractice and the best approach to use to avoid litigations and practice good medicine      **Evidence-based Management of Low Back Pain** Simon Dagenais,Scott

Haldeman,2011-01-01 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

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## **Table of Contents Surgical Management Of Low Back Pain Neurosurgical Topics**

1. Understanding the eBook Surgical Management Of Low Back Pain Neurosurgical Topics
  - The Rise of Digital Reading Surgical Management Of Low Back Pain Neurosurgical Topics
  - Advantages of eBooks Over Traditional Books
2. Identifying Surgical Management Of Low Back Pain Neurosurgical Topics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Surgical Management Of Low Back Pain Neurosurgical Topics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Surgical Management Of Low Back Pain Neurosurgical Topics
  - Personalized Recommendations
  - Surgical Management Of Low Back Pain Neurosurgical Topics User Reviews and Ratings
  - Surgical Management Of Low Back Pain Neurosurgical Topics and Bestseller Lists
5. Accessing Surgical Management Of Low Back Pain Neurosurgical Topics Free and Paid eBooks
  - Surgical Management Of Low Back Pain Neurosurgical Topics Public Domain eBooks
  - Surgical Management Of Low Back Pain Neurosurgical Topics eBook Subscription Services
  - Surgical Management Of Low Back Pain Neurosurgical Topics Budget-Friendly Options

6. Navigating Surgical Management Of Low Back Pain Neurosurgical Topics eBook Formats
  - ePub, PDF, MOBI, and More
  - Surgical Management Of Low Back Pain Neurosurgical Topics Compatibility with Devices
  - Surgical Management Of Low Back Pain Neurosurgical Topics Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Surgical Management Of Low Back Pain Neurosurgical Topics
  - Highlighting and Note-Taking Surgical Management Of Low Back Pain Neurosurgical Topics
  - Interactive Elements Surgical Management Of Low Back Pain Neurosurgical Topics
8. Staying Engaged with Surgical Management Of Low Back Pain Neurosurgical Topics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Surgical Management Of Low Back Pain Neurosurgical Topics
9. Balancing eBooks and Physical Books Surgical Management Of Low Back Pain Neurosurgical Topics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Surgical Management Of Low Back Pain Neurosurgical Topics
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Surgical Management Of Low Back Pain Neurosurgical Topics
  - Setting Reading Goals Surgical Management Of Low Back Pain Neurosurgical Topics
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Surgical Management Of Low Back Pain Neurosurgical Topics
  - Fact-Checking eBook Content of Surgical Management Of Low Back Pain Neurosurgical Topics
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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