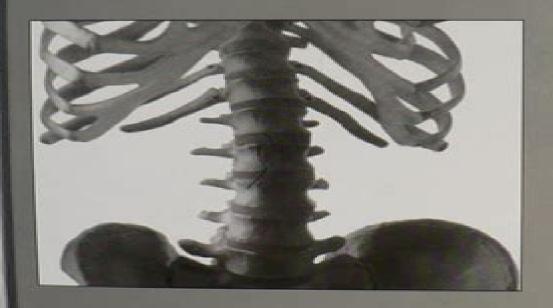
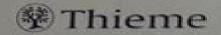
# Surgical Management of Low Back Pain

Daniel K. Resnick Regis W. Haid, Jr.





American Association of Neurological Surgeons



# Surgical Management Of Low Back Pain Neurosurgical Topics

Antonio Di Ieva, Eric Suero Molina, Sidong Liu, Carlo Russo

#### **Surgical Management Of Low Back Pain Neurosurgical Topics:**

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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 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 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 Surgery of the Spine and Spinal Cord Erik van de Kelft, 2016-07-04 This book offers with complete text images and video 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 I 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 Youmans and Winn Neurological Surgery E-Book H. Richard Winn, 2022-01-21 Widely regarded as the definitive reference in the field Youmans and Winn Neurological Surgery offers unparalleled multimedia coverage of the entirety of this complex specialty Fully updated to reflect recent advances in the basic and clinical neurosciences the 8th Edition covers everything you need to know about functional and restorative neurosurgery deep brain stimulation stem cell biology radiological and nuclear imaging and neuro oncology as well as minimally invasive surgeries in spine and peripheral nerve surgery and endoscopic and other approaches for cranial procedures and cerebrovascular diseases In four comprehensive volumes Dr H Richard Winn and his expert team of editors and authors provide updated content a significantly expanded video library and hundreds of new video lectures that help you master new procedures new technologies and essential anatomic knowledge in neurosurgery Discusses current topics such as diffusion tensor imaging brain and spine robotic surgery augmented reality as an aid in neurosurgery AI and big data in neurosurgery and neuroimaging in stereotactic functional neurosurgery 55 new chapters provide cutting edge information on Surgical Anatomy of the Spine Precision Medicine in Neurosurgery The Geriatric Patient Neuroanesthesia During Pregnancy Laser Interstitial Thermal Therapy for Epilepsy Fetal Surgery for Myelomeningocele Rehabilitation of Acute Spinal Cord Injury Surgical Considerations for Patients with Polytrauma Endovascular Approaches to Intracranial Aneurysms and much more Hundreds of all new video lectures clarify key concepts in techniques cases and surgical management and evaluation Notable lecture videos include multiple videos on Thalamotomy for Focal Hand Dystonia and a video to accompany a new chapter on the Basic Science of Brain Metastases An extensive video library contains stunning anatomy videos and videos demonstrating intraoperative procedures with more than 800 videos in all Each clinical section contains chapters on technology specific to a clinical area Each section contains a chapter providing an overview from experienced Section Editors including a report on ongoing controversies within that subspecialty Enhanced eBook version included with purchase Your enhanced eBook allows

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