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AOSpine Masters Series

Volume 4

Adult Spinal Deformities



Aospine Masters Series Volume 4 Adult Spinal Deformities

**Ziya L. Gokaslan, Charles G
Fisher, Stefano Boriani**



Aospine Masters Series Volume 4 Adult Spinal Deformities:

AOSpine Masters Series, Volume 4: Adult Spinal Deformities Lawrence G Lenke, Kenneth M.C. Cheung, 2015-06-17
An expert reference on the management of adult spinal deformities In this fourth volume of the AOSpine Masters Series experts from around the world share their strategies for managing the most common adult spinal deformities This book gives clinicians the guidance they need to make the right treatment decisions and provide the best care for their patients Chapter topics include osteotomies for rigid spinal deformities postoperative coronal decompensation in adult deformity and biomechanics and material science for deformity correction Key Features The issues of patient selection outcomes and complications along with all the essential preoperative and intraoperative factors are discussed in detail in every chapter Editors are internationally recognized authorities on the management of adult spinal deformities Each chapter includes expert tips and pearls The AOSpine Masters Series a co publication of Thieme and AOSpine a Clinical Division of the AO Foundation addresses current clinical issues whereby international masters of spine share their expertise and recommendations on a particular topic The goal of the series is to contribute to an evolving dynamic model of an evidence based medicine approach to spine care All spine surgeons orthopaedic surgeons and neurosurgeons along with residents and fellows in these areas will find this book to be an excellent reference that they will consult often **AOSpine Masters Series, Volume 1: Metastatic Spinal Tumors** Ziya L. Gokaslan, Charles G. Fisher, 2014-09-30 A focused guide from the world s experts on metastatic spine tumors This first volume in the AOSpine Masters Series integrates the expertise of oncologists and radiology interventionalists with that of master spine surgeons all of whom are actively involved in the care of patients with metastatic spine tumors The book provides expert guidance to help clinicians make the right treatment decisions and provide the best care for their patients Chapter topics range from evaluation and decision making principles to a spectrum of non operative and operative treatment options that have been rapidly evolving over the past decade Key Features Editors are internationally recognized authorities on metastatic spine tumors Includes contributions from key opinion leaders working in spine oncology Synthesizes the best available evidence and consensus expert advice on metastatic spine tumors leading to optimal clinical recommendations Each chapter includes clinical pearls tips on complication avoidance and top 5 must read references The AOSpine Masters Series a co publication of Thieme and the AOSpine Foundation addresses current clinical issues whereby international masters of spine share their expertise and recommendations on a particular topic The goal of the series is to contribute to an evolving dynamic model of an evidence based medicine approach to spine care All neurosurgeons orthopedic surgeons neuro oncologists and orthopedic oncologists specializing in spine along with residents and fellows in these areas will find this book to be an excellent guide that they will consult often in their treatment of patients with metastatic spine tumors nbsp *AOSpine Masters Series, Volume 8: Back Pain* Luiz Roberto Gomes Vialle, 2016-12-01 Current statistics indicate that 75 80% of people worldwide will experience some

form of back pain during their lifetime Lumbar pain is a leading cause of disability a global public health burden with serious economic implications Written by internationally renowned spine experts the 8th volume in the AOSpine Masters series is a concise state of the art overview on fundamental management strategies and current issues and challenges The text covers the full age spectrum from childhood to older adulthood and contributing factors such as the sacroiliac joints genetics and spine infections Clinical evaluation treatment options recent research advances and future perspectives are systematically examined and presented in a clear format With commentary from leading authorities this compendium presents candid discussion of significant challenges faced by clinicians who treat back pain Among the issues addressed are managing patients who have undergone multiple operations chronic back pain failed spine surgery and what to do when all nonsurgical and surgical options have been exhausted Key Highlights Economic considerations risk factors and legal aspects Neurological causes including myopathies neuromuscular disease Parkinson disease and dystonia Conservative treatment options such as drugs physiotherapy and complementary medicine The role of minimally invasive surgery in treating degenerative lumbar spine disease Must read bibliographic references in every chapter Bullet lists of pearls and pitfalls summarize critical points and key concepts The AOSpine Masters series a copublication of Thieme and the AOSpine Foundation addresses current clinical issues featuring international masters sharing their expertise in the core areas in the field The goal of the series is to contribute to an evolving dynamic model of evidence based approach to spine care

AOSpine Masters Series, Volume 10: Spinal Infections Shanmuganathan Rajasekaran, Rishi Kanna, Giuseppe Barbagallo, 2018-09-05 Renowned spine experts share recent advances on the management of spinal infections AOSpine Masters Series Volume 10 Spinal Infections is a concise state of the art review covering all aspects of spinal infections from basic science and epidemiology to fundamental surgical and nonsurgical approaches Internationally renowned spine surgeons Luis Roberto Vialle S Rajasekaran Rishi Kanna Giuseppe Barbagallo and many experts across the world provide clinical pearls and insights gleaned from years of hands on expertise This book provides discussion of underlying pathologies imaging and diagnosis and surgical techniques with a focus on issues specific to children co infection with HIV postoperative problems geriatric patients and pseudoarthrosis Key Highlights Overviews on the epidemiology microbiology and pathology of spinal infections Detailed review of imaging and other investigations Treatment planning and surgical techniques Risk stratification and prevention of post operative infection Pathogenesis clinical features diagnosis and treatment of pyogenic spondylodiscitis in various regions of the spine Clinical pearls on the management of spinal tuberculosis including drug therapy and surgery The AOSpine Masters series a co publication of Thieme and the AOSpine Foundation addresses current clinical issues featuring international masters sharing their expertise in the core areas in the field The goal of the series is to contribute to an evidence based approach to spine care This textbook is essential reading for all spine surgeons Orthopaedic and neurosurgery residents as well as veteran surgeons will find this a useful tool for daily practice [AOSpine Masters](#)

Series, Volume 7: Spinal Cord Injury and Regeneration Luiz Roberto Gomes Vialle, Michael G. Fehlings, Norbert Weidner, 2016-10-30 World renowned experts share the latest updates in translational research as well as surgical and nonsurgical strategies for treating spinal cord injury Spinal cord injury SCI is a devastating clinically challenging injury leading to varying degrees of neurological function impairment and paralysis Underlying biological mechanisms either inhibit or promote new growth in the spinal cord Researchers have been making important discoveries about how neurons and their axons grow in the central nervous system and why they fail to regenerate after SCI Although progress has been steady there remains an urgent need to address issues in acute management such as early decompression and the use of biologics as well as potential solutions for regeneration Written by renowned experts in the ever evolving field of SCI research and clinical practice the 7th volume in the AOSpine Masters series is a state of the art compendium on the latest in SCI diagnosis spine surgery interventions and long term management Each chapter contains pearls from leading spine specialists gleaned from the research laboratory and years of hands on experience treating SCI patients in the emergency setting and long term Key Features Pathobiology assessment and diagnostic considerations The use of biomarkers as predictors of functional recovery Surgical and nonsurgical interventions for traumatic SCI The role of neural stem cells and biologics in spinal cord repair Functional and epidural stimulation and brain computer interfaces The AOSpine Masters series a copublication of Thieme and the AOSpine Foundation addresses current clinical issues featuring international masters sharing their expertise in the core areas in the field The goal of the series is to contribute to an evolving dynamic model of evidence based approach to spine care This essential textbook delivers invaluable insights to spine surgeons spinal cord injury clinicians and researchers and trainees from translational researchers to experienced researchers and clinicians experienced in the operative and non operative management of spinal cord injury

AOSpine Masters Series, Volume 3: Cervical Degenerative Conditions K. Daniel Riew, Manabu Ito, 2014-12-01 A focused reference from the world's experts on degenerative cervical conditions This third volume in the AOSpine Masters Series covers the most common operative techniques for treating degenerative cervical conditions The book provides expert guidance to help clinicians make the right treatment decisions and provide the best care for their patients Chapter topics range from Laminectomy and Fusion for Cervical Spondylotic Myelopathy to Complications on Anterior Surgery VA Injury Esophageal Perforation and Dysphagia Key Features Synthesizes the best available evidence and consensus expert advice on each operative technique for degenerative cervical conditions leading to optimal clinical recommendations Editors are internationally recognized authorities on the treatment of degenerative cervical conditions Each chapter includes tips and pearls from leaders in the field The AOSpine Masters Series a co publication of Thieme and the AOSpine Foundation addresses current clinical issues whereby international masters of spine share their expertise and recommendations on a particular topic The goal of the series is to contribute to an evolving dynamic model of an evidence based medicine approach to spine care All neurosurgeons and orthopedic surgeons along with residents and fellows in these

areas will find this book to be an excellent guide that they will consult often in their treatment of patients with degenerative cervical conditions *AOSpine Masters Series, Volume 5: Cervical Spine Trauma* F.C. Öner, Alexander R.

Vaccaro, 2015-07-01 Leading spinal trauma surgeons share their expertise on the cervical spine FOUR STARS from Doody's Star Ratings This fifth volume in the AOSpine Masters Series presents a detailed analysis of the essential aspects of managing the most common cervical spine injuries World renowned cervical spine experts discuss anatomy biomechanics patient evaluation and critical steps in the decision making process for the treatment of these complex injuries Chapters include Anatomy of the Cervical Spine Nonoperative Management of Cervical Spine Trauma and Subaxial Cervical Spine Injuries Key Features Each chapter provides historic literature as well as a synthesized analysis of current literature and proposes an evidence based treatment plan Editors are international authorities on the management of cervical spine injuries Expert tips and pearls included in every chapter The AOSpine Masters Series a co publication of Thieme and AOSpine a Clinical Division of the AO Foundation addresses current clinical issues whereby international masters of spine share their expertise and recommendations on a particular topic The goal of the series is to contribute to an evolving dynamic model of an evidence based medicine approach to spine care All spine surgeons orthopaedic surgeons and neurosurgeons along with residents and fellows in these areas will find this book to be an excellent reference that they will consult often in their treatment of patients with cervical spine injuries *AOSpine Masters Series, Volume 2: Primary Spinal Tumors* Ziya L.

Gokaslan, Charles G Fisher, Stefano Boriani, 2014-11-22 An evidence based guide to managing primary tumors of the spine This second volume in the AOSpine Masters Series balances critical appraisal of current evidence in spine oncology with the opinions of experienced spine surgeons to create a unique clinical reference for spine oncology surgeons The book provides expert guidance to help clinicians make the right treatment decisions and provide the best care for their patients The chapters have been written and researched by key leaders in spine oncology and range from general evaluation staging and decision making principles to histology specific oncologic patient management Key Features Editors are internationally recognized authorities on the treatment of primary spine tumors Synthesizes the best available evidence and consensus expert advice on primary spine tumors leading to optimal clinical recommendations Each chapter includes clinical pearls tips on complication avoidance and top 5 must read references The AOSpine Masters Series a co publication of Thieme and the AOSpine Foundation addresses current clinical issues whereby international masters of spine share their expertise and recommendations on a particular topic The goal of the series is to contribute to an evolving dynamic model of an evidence based medicine approach to spine care All neurosurgeons orthopedic surgeons neuro oncologists and orthopedic oncologists specializing in spine along with residents and fellows in these areas will find this book to be an excellent resource that they will often refer to in their treatment of patients with primary tumors of the spine *AOSpine Masters Series, Volume 6:*

Thoracolumbar Spine Trauma Carlo Bellabarba, Frank Kandziora, 2015-10-16 An expert reference on the thoracolumbar area

of the spine FOUR STARS from Doody's Star Ratings This sixth volume in the AOSpine Masters Series provides expert guidance on making an accurate diagnosis and classification of injuries to the thoracolumbar area of the spine Chapters include Radiographic Assessment of Thoracolumbar Fractures Posterior and Anterior MIS in TL Fractures and Thoracolumbar Fracture Fixation in the Osteoporotic Patient Key Features Each chapter provides historic literature as well as a synthesized analysis of current literature and proposes an evidence based treatment plan Editors are international authorities on thoracolumbar spine trauma Expert tips and pearls included in every chapter The AOSpine Masters Series a co publication of Thieme and AOSpine a Clinical Division of the AO Foundation addresses current clinical issues whereby international masters of spine share their expertise and recommendations on a particular topic The goal of the series is to contribute to an evolving dynamic model of an evidence based medicine approach to spine care All spine surgeons and orthopaedic surgeons along with residents and fellows in these areas will find this book to be an excellent reference that they will consult often in their treatment of patients with thoracolumbar spine injuries Neurosurgery Updates, Vol. 1 Manas Panigrahi, Rajneesh Kachhara, B. K. Baishya, 2022-06-27 This book is an essential update on the novel approaches used for surgical management of a spectrum of disorders affecting the spine Focusing on practitioners residents and trainee neurosurgeons the book offers guidance on selecting the most appropriate surgical management option for a variety of spinal conditions All the 11 chapters of the book take the reader through a stepwise logical presentation of not only the surgical approaches but also the neuroanatomy and biomechanics of the spine pain mechanisms and imaging techniques Based on evidence based practice and the vast experience of all authors the book guides the reader through the diagnostic hierarchy and selection of the requisite approach for managing various disorders of the different regions of the spine The book also identifies some of the most common potential complications of certain techniques and discusses strategies for avoiding them The various surgical techniques have been described in the form of case presentations and illustrated with the help of images The book will be of interest to not only neurosurgeons but also orthopaedic surgeons Key Features Guidance on selecting the most appropriate surgical management option for a variety of spinal conditions Logical presentation of surgical approaches and the neuroanatomy and biomechanics of the spine pain mechanisms and imaging techniques Identifies some of the most common potential complications of certain techniques and discusses strategies for avoiding them

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