

# **Pediatric Spine Surgery**

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# **Pediatric Spine Surgery:**

Surgery of the Pediatric Spine Daniel H. Kim, Randal R. Betz, Stephen L. Huhn, Peter O. Newton, 2011-01-01 A single volume reference for managing pediatric spine disorders and disease Ideal for neurosurgeons pediatric neurosurgeons and orthopedic surgeons Surgery of the Pediatric Spine is a comprehensive multidisciplinary reference for the surgical management of the most frequently encountered spine problems in the pediatric patient An overview of developmental and clinical aspects provides essential information on biomechanics neuroimaging preoperative evaluation anesthesia and neurophysiological monitoring The book goes on to present the surgical anatomy and various approaches to the spine and spinal cord Chapters are grouped into easy to reference sections that are organized by type of problem including congenital anomalies and developmental disorders neoplasms vascular malformations inflammatory and infectious diseases neuromuscular disease trauma and deformities The book also presents special techniques for the treatment of spinal deformity such as osteotomy vertebrectomy VEPTR expansion thoracoplasty and fusionless techniques A chapter devoted to the rehabilitation of children with spinal cord injury covers the principles and key concepts in treatment as well as the possible secondary complications and challenges that are unique to pediatric patients Highlights Clinical insights from well known experts in the fields of neurosurgery pediatric neurosurgery and orthopedics Detailed information for each stage of management guides the reader through clinical presentation diagnostic studies indications operative techniques nonsurgical treatments possible complications and outcomes More than 1 000 illustrations and images demonstrate key concepts Numerous cases in selected chapters illustrate management principles and treatment outcomes An invaluable resource for multidisciplinary approaches to patient care this comprehensive text provides readers with a solid foundation in the specific issues associated with treating the pediatric patient with spine disease and disorders **The Pediatric Spine** Stuart L. Weinstein, 1994 <u>Pediatric Spine Surgery</u> Stuart L. Weinstein, 2001 Featuring contributions from the foremost spine surgeons worldwide this volume is the most comprehensive guide to contemporary pediatric spine surgery Coverage includes all common and rarer surgical procedures and instrumentation systems and the entire range of complications that a spine surgeon might encounter The book presents step by step thoroughly illustrated surgical techniques and offers expert advice on prevention and management of complications Also included are detailed descriptions of the intricate traction and casting needed for rehabilitation Other chapters address perioperative considerations such as anesthesia blood salvage neurophysiology spinal cord monitoring bone banking and bone grafting Each chapter includes a comprehensive bibliography

Surgery of the Pediatric Spine Daniel H. Kim,2008 A single volume reference for managing pediatric spine disorders and disease Ideal for neurosurgeons pediatric neurosurgeons and orthopedic surgeons Surgery of the Pediatric Spine is a comprehensive multidisciplinary reference for the surgical management of the most frequently encountered spine problems in the pediatric patient An overview of developmental and clinical aspects provides essential information on biomechanics

neuroimaging preoperative evaluation anesthesia and neurophysiological monitoring The book goes on to present the surgical anatomy and various approaches to the spine and spinal cord Chapters are grouped into easy to reference sections that are organized by type of problem including congenital anomalies and developmental disorders neoplasms vascular malformations inflammatory and infectious diseases neuromuscular disease trauma and deformities The book also presents special techniques for the treatment of spinal deformity such as osteotomy vertebrectomy VEPTR expansion thoracoplasty and fusionless techniques A chapter devoted to the rehabilitation of children with spinal cord injury covers the principles and key concepts in treatment as well as the possible secondary complications and challenges that are unique to pediatric patients Highlights Clinical insights from well known experts in the fields of neurosurgery pediatric neurosurgery and orthopedics Detailed information for each stage of management guides the reader through clinical presentation diagnostic studies indications operative techniques nonsurgical treatments possible complications and outcomes More than 1 000 illustrations and images demonstrate key concepts Numerous cases in selected chapters illustrate management principles and treatment outcomes An invaluable resource for multidisciplinary approaches to patient care this comprehensive text provides readers with a solid foundation in the specific issues associated with treating the pediatric patient with spine disease and disorders Pediatric Spine Surgery - Trauma, Tumors, and Surgical Strategy Jonathan R. Slotkin, Douglas Brockmeyer, 2007 Aspects specific to spinal disorders and surgery for the pediatric population are discussed in this issue of Neurosurgery Clinics Contents include Development and Maturation of the Axial Skeleton Postnatal Maturation and Radiology of the Growing Spine Congenital Abnormalities of the Cervical Spine Congenital Abnormalities of the Thoracic Lumbar and Sacral Spine Spinal Disorders Associated with Skeletal Dysplasias and Syndromes Pediatric Scoliosis and Kyphosis Management of Scoliosis Iatrogenic Spinal Deformity The Tethered Spinal Cord The Chiaris and Syringohydromyelia Cervical Spine Trauma in Children Thoracic Lumbar and Sacral Trauma in Children Spinal Tumors Pediatric Disc Disease and Sports Injury The Pediatric Cervical Spine Approaches and Instrumentation The Pediatric Thoracic Lumbar and Sacral Spine Approaches and Instrumentation The Adult and Pediatric Spine John W. Frymoyer, Sam W. Wiesel, 2004 This edition covers both the adult and pediatric spine provides more complete and detailed information on surgical techniques and includes eminent neurosurgeons as section editors and contributors Midwest

**Pediatric Spine Surgery: Normal and Abnormal Development of the Spine (Part 1)** Maj Paul Klimo Jr, USAF MD MPH, Jonathan R. Slotkin, Paul Klimo, Douglas Brockmeyer, 2007-09-17 Aspects specific to spinal disorders and surgery for the pediatric population are discussed in this issue of Neurosurgery Clinics Contents include Development and Maturation of the Axial Skeleton Postnatal Maturation and Radiology of the Growing Spine Congenital Abnormalities of the Cervical Spine Congenital Abnormalities of the Thoracic Lumbar and Sacral Spine Spinal Disorders Associated with Skeletal Dysplasias and Syndromes Pediatric Scoliosis and Kyphosis Management of Scoliosis Iatrogenic Spinal Deformity The Tethered Spinal Cord

The Chiaris and Syringohydromyelia Cervical Spine Trauma in Children Thoracic Lumbar and Sacral Trauma in Children Spinal Tumors Pediatric Disc Disease and Sports Injury The Pediatric Cervical Spine Approaches and Instrumentation The Pediatric Thoracic Lumbar and Sacral Spine Approaches and Instrumentation Scoliosis Amber Sentell Mizerik, Michael G. Vitale MPH,2019-11 If you are reading this book you probably know someone who has been diagnosed with scoliosis Whether it is you a friend or a loved one who is facing this new challenge it can all be overwhelming at first Take a deep breath This will be OK We are writing this book to provide useful information about this common condition My hope is that the information presented here answers your questions makes you feel better and equips you to make the best decisions possible regarding optimum treatment During the 20 years of my practice as an orthopaedic surgeon I have seen a number of significant changes in this field We have a greater understanding of the nature of scoliosis We also have a much wider variety of treatment options available to our patients including non operative conservative treatment and our treatments are more successful than ever I am deeply indebted to Amber Sentell Mizerik for her help in the planning organization and writing of this book An expert Physician Assistant who has been with me throughout my practice her experience and insight have greatly enriched the content of this book And finally many thanks to my patients for trusting me with their care They have been a constant source of inspiration and encouragement as they prompted me to adopt a relentless laser focus in my pursuit of improvements in scoliosis care You will hear from many of these extraordinary kids in the following pages Michael G Vitale Pediatric Orthopedics, An Issue of Pediatric Clinics of North America Paul Haynes, 2019-12-03 In collaboration MD MPH with Consulting Editor Dr Bonita Stanton Dr Paul Haynes has assembled expert authors to bring current information to pediatricians on the topic of Pediatric Orthopedics The issue provides a general overview of evaluation and treatment of the pediatric orthopedic patients Specific articles are devoted to the following topics Evaluation Pediatric Orthopedic Exam Genetic and Metabolic Conditions Musculoskeletal Infections Neuromuscular Conditions Orthopedic Manifestations Pediatric Anesthesia as Related To Orthopedic Procedures Perioperative Management The Limping Child Pediatric Orthopedic Trauma Hand and Upper Extremity Hip and Pelvis Knee and Lower Extremity Foot and Ankle Pediatric Spine Pediatric Sports Injuries Concussions and Chronic Overuse Injuries And Injury Prevention and Tumors and Tumor Like Conditions Readers will come away with the most current information on this important topic **Pediatric Spine Surgery** Paul Klimo, 2007

<u>Principles and Practice of Pediatric Infectious Diseases E-Book</u> Sarah S. Long, Charles G. Prober, Marc Fischer, David Kimberlin, 2022-03-10 Comprehensive in scope yet concise and easy to manage Principles and Practice of Pediatric Infectious Diseases 6th Edition by Drs Sarah S Long Charles G Prober Marc Fischer and new editor David Kimberlin is your go to resource for authoritative information on infectious diseases in children and adolescents A veritable who s who of global authorities provides the practical knowledge you need to understand diagnose and manage almost any pediatric infectious disease you may encounter Covers the latest aspects of the COVID 19 pandemic including manifestations diagnosis

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new of pediatric surgical procedures including a number that highlight clinical examination and unusual clinical findings Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and Pediatric Hospital Medicine and Pediatric Palliative Care, An Issue of references from the book on a variety of devices Pediatric Clinics Mary C. Ottolini, Christina K. Ullrich, 2014-08-04 For the first time Pediatric Clinics is devoting one issue to two clinically focused topics Pediatric Palliative Care and Pediatric Hospital Medicine Dr Ottolini has organized her section to focus on a variety of issues of relevant to all pediatricians but which pose special challenge to the Pediatric Hospitalists As pediatric care has advanced children who would not have survived infancy are growing into young adults with complex chronic diseases and dependence upon technology They frequently require hospitalization to address exacerbation of underlying disease processes and procedures to improve their quality of life The articles are devoted to patient care challenges of troubleshooting malfunctioning technology co managing medically complex patients pre and post op with surgical colleagues and the Hospitalist's evolving role in performing procedures and sedation in this population of vulnerable patients Also discussed rare strategies to maximize communication with parents patients and primary care providers during hospitalization especially for medically complex patients Dr Ullrich and Dr Wolfe Pediatric have worked to bring relevant articles on palliative care to the pediatrician While life threatening conditions in childhood are rare children with LTC account for a high proportion of pediatric hospital care and about one half of such children die in the inpatient setting The number of hospital based pediatric palliative care programs has increased dramatically over the past decade to meet the palliative care needs of hospitalized children including symptom management facilitation of communication decision making and advance care planning support and coordination of care Given these considerations it is evident that the topics of pediatric palliative care and hospital medicine are fitting counterparts for this comprehensive issue **Pediatric** Musculoskeletal Infections Mohan V. Belthur, Ashish S. Ranade, Martin J. Herman, James A. Fernandes, 2022-06-28 Pediatric musculoskeletal infections are common globally and represent about 1 2% of all pediatric hospital admissions in the developed world and about 10 20% of admissions in the developing countries If untreated or treated inadequately pediatric bone and joint infections can cause significant mortality and morbidity The functional and economic burden to the family and community at large also presents a significant public health problem This book serves as an evidence based comprehensive review of the current concepts for the early diagnosis and management of pediatric musculoskeletal infections Currently there are no comprehensive easily accessible books on this topic This first of its kind book also uses a multidisciplinary and global approach by including contributions from editors and authors worldwide The long term goal of this text is to help improve the quality of care provided to children with musculoskeletal infections improve patient safety reduce the cost of care and add value to the care provided to these children and thus reduce the economic burden Broken up into five sections the first part of this text covers the epidemiology microbiology pathological consequences antibiotic therapies systemic

effects and imaging modalities of pediatric musculoskeletal infections Section two takes a detailed look at acute pediatric musculoskeletal infections Infections discussed in this section include acute hematogenous osteomyelitis septic arthritis pyomyositis complex musculoskeletal infections musculoskeletal infections in the neonate and acute surgical site infection after pediatric orthopedic surgery Section three focuses on chronic osteomyelitis and its sequelae Section four examines anatomic region specific considerations in musculoskeletal infections. The topics that are expanded upon are epiphyseal osteomyelitis Pediatric hand and foot infections tuberculosis of the axial and the appendicular skeleton and non tuberculous infections of the spine Finally the fifth section includes an overview of less common musculoskeletal conditions such as fungal infections brucellosis hydatid disease gas gangrene viral musculoskeletal infection and meningococcal infections. Written by experts in the field Pediatric Musculoskeletal Infections Principles and Practice serves as an easily accessible resource for a global audience of healthcare providers from multiple disciplines to aid them in making informed decisions while managing pediatric bone and joint infections Paediatricians orthopedic surgeons infectious disease physicians radiologists pathologists family physicians and any other healthcare providers involved in the care of children with musculoskeletal infections will find immense value in this reference as will medical students residents and fellows

Pediatric Anesthesia Bruno Bissonnette, 2014-05-14 No longer merely a subspecialty pediatric anesthesia is now a professional entity in its own right as is amply demonstrated in this comprehensive addition to the medical and surgical literature Pediatric Anesthesia Basic Principles State of the Art Future comprises the contributions of 150 experts in the field from all over the world providing this book with a truly global perspective This textbook will help anesthesiologists already interested in pediatric anesthesia to the knowledge and skills inherent to the safe practice of anesthesia for infants and children Orthopaedic Knowledge Update® Pediatrics 6 Jeffrey E. Martus, 2021-01-07 Orthopaedic Knowledge Update Pediatrics 6 reflects the most recent clinical practice guidelines and appropriate use criteria as well as the substantial number of high quality studies in pediatric orthopaedics This comprehensive multispecialty resource explores the latest advances in pediatric trauma sports related injuries and upper and lower extremity conditions with brand new chapters on developmental biology metabolism high energy injury and polytrauma elbow trauma knee trauma and disaster response Recognized section editors and contributors bring fresh approaches and perspectives with a focus on delivering a well rounded update of this rapidly evolving subspecialty This concentrated guide to new techniques new approaches and current controversies is ideal for anyone who treats pediatric musculoskeletal injuries **Principles and Practice of Pediatric** Infectious Diseases E-Book Marc Fischer, Sarah S. Long, Charles G. Prober, 2017-05-09 Comprehensive in scope yet concise and easy to manage Principles and Practice of Pediatric Infectious Diseases 5th Edition by Drs Sarah Long Charles Prober and Marc Fischer is your go to resource for authoritative information on infectious diseases in children and adolescents A veritable who s who of global authorities provides the practical knowledge you need to understand diagnose and manage

almost any pediatric infectious disease you may encounter Features a consistent easy access format with high yield information boxes highlighted key points and an abundance of detailed illustrations and at a glance tables Allows quick look up by clinical presentation pathogen or type of host Includes coverage of the latest vaccine products recommendations and effectiveness as well as expanded diagnostics and therapies for autoinflammatory periodic fever syndromes Covers emerging viruses such as Zika Ebola and EV D68 as well as infectious risks of immunomodulating drugs and expanding antimicrobial resistance patterns Discusses expanding antimicrobial resistance patterns and new therapies for viral and fungal infections and resistant bacterial infections Expert Consult eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures images videos including video updates glossary and references from the book on a variety of devices Orthopaedic Knowledge Update: Pediatrics 5 Jeffrey E. Martus, MD, MS, 2018-08-21 OKU Pediatrics 5 reflects the substantial number of high quality studies in pediatric orthopaedics as well as the most recent clinical practice guidelines and appropriate use criteria This comprehensive multispecialty resource explores the latest advances in pediatric trauma sports related injuries and upper and lower extremity conditions with a brand new section on Neuromuscular Metabolic and Inflammatory Disorders Complications in Orthopaedics: Pediatrics - E-Book Matthew Schmitz, Stephen Thompson, 2023-09-12 The difference between an average surgeon and a master surgeon is often an ability to navigate and resolve surgical complications Complications in Orthopaedics Pediatrics provides expert guidance and offers real solutions to improve patient outcomes both for the trainee and for the experienced surgeon This brand new volume in the new Complications in Orthopaedics series from Dr Stephen R Thompson co editor of Miller's Orthopaedics and DeLee Drez s Orthopaedic Sports Medicine and Dr Matthew R Schmitz focuses on how to get out of the weeds with practical use now advice on pediatric trauma upper extremity spine lower extremity and neuromuscular congenital disorders Describes how to navigate the most common or most devastating errors and complications in pediatric orthopaedic surgery combining the breadth of knowledge of academic surgeons with the in the trenches skills of community surgeons Follows a templated reader friendly format throughout Emphasizes how to recognize and avoid errors with thorough coverage of preoperative errors intraoperative issues and postoperative complications Includes video clips clinical images and MRI and CT scans to enhance and reinforce the material

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