

Spinal Disorders For Beginners The Oswestry Spine Primer

Master the techniques and problem-solving skills needed to manage spinal and TMJ disorders! Manual Physical Therapy of the Spine, 2nd Edition provides guidelines to manipulation, manual physical therapy examination, and treatment procedures of the spine and temporomandibular joint. Informed by evidence-based research, this text offers detailed instructions for reaching an accurate diagnosis and developing a plan of care. Written by well-known spinal manipulation expert Kenneth Olson, this resource provides the complete information you need to make sound decisions during clinical interventions. Descriptions of manual therapy techniques include evidence-based coverage of the examination and treatment of spine and TMJ disorders, along with discussions of alternative treatment methods and potential adverse effects and contraindications to manual therapy. Guidelines for completing a comprehensive spinal examination include medical screening, the patient interview, disability assessment, and tests and measures, along with an evaluation of the examination findings and the principles involved in arriving at a diagnosis and plan of care. Impairment-based manual physical therapy approach includes a review of the evidence to support its use to evaluate and treat spinal and TMJ conditions. Case studies demonstrate the clinical reasoning used in manual physical therapy. Guide to Physical Therapist Practice terminology is incorporated throughout the book, using accepted terms familiar in physical therapy settings. Expert author Ken Olson is a highly respected authority on the subject of spinal manipulation in physical therapy. A clear, consistent format for explaining techniques makes this reference easy to use in the clinical setting. NEW! Coverage of emerging topics includes soft tissue assessment, mobilization, dry needling, myofascial pain and trigger points, thoracic outlet syndrome, cervicogenic dizziness, and differentiation of headache types, plus expanded coverage of examination procedures and psychologically informed management strategies for chronic low back pain. NEW! Full-color design and photographs show essential concepts and procedures from multiple angles, illustrating hand and body placement and direction of force. UPDATED evidence-based research provides the latest thinking on manual therapy of the spine.

The 2nd Edition of the well-respected volume on cervical spine disorders includes topics on basic science, diagnostic methods and clinical management. The clinical examination is described in detail with many illustrations and pathologic interpretations of cervical spine movements along with a list of special tests, observations and syndromes in clinical diagnosis. Also included is the anatomy and physiology of the cervical spine based on gross anatomical, histologic and physiologic studies of 191 whole human cervical spines.

Minimally invasive techniques are now the preferred method for spine surgery because the incision is much smaller, causing less damage to surrounding muscles, pain is usually greatly reduced, and recovery time is faster. This book is a practical guide to minimally invasive diagnostic and surgical techniques for spine operations. Beginning with an overview of spinal anatomy and the basics of minimally invasive surgery, the following chapters examine the management of numerous different spinal conditions. A complete chapter is dedicated to patients with spinal cord injury and rehabilitation. More than 200 clinical photographs, diagrams and tables enhance the comprehensive text, making it an invaluable resource for both trainees and practising spine surgeons. Key points Comprehensive guide to minimally invasive spine surgery Covers diagnosis and treatment of numerous spinal disorders Complete chapter dedicated to spinal injury and rehabilitation Includes more than 200 photographs and illustrations

Back pain is the most common cause of job-related disability. This is a reference to these parts of the body and the ailments of sufferers. It provides information on various aspects of the back and spine, including anatomy, metabolic processes, neurological systems, injuries, diseases and disorders, treatments, medicines, and nutrition.

Radiology Illustrated: Spine
Musculoskeletal Sports and Spine Disorders

Small Animal Spinal Disorders
Disorders of the Cervical Spine

Comprehensive Overview on Surgical Management of the Spine
Spinal Disorders in Growth and Aging

The spinal cord is a tubular structure consisting of nervous tissue. It extends from the medulla oblongata to the lumbar region. Its primary function is to transit nerve signals from the motor cortex to the sensory cortex. There are 8 cervical segments, 12 thoracic segments, 51 lumbar segments, 5 sacral segments and 1 coccygeal segment in the human spinal cord. The conditions, which impair the functioning of the backbone, are known as spinal diseases. Some common examples include ankylosing spondylitis, spina bifida, spinal muscular atrophy, osteoporosis, lumbar spinal stenosis, spinal tumors, etc. This book includes some of the vital pieces of work being conducted across the world, on various topics related to spinal disorders. It elucidates new diagnostic and treatment techniques and their applications. For all readers who are interested in spinal disorders, the case studies included in this book will serve as an excellent guide to develop a comprehensive understanding.

Annotation General and emergency physicians, orthopedic surgeons in training, rheumatologists, radiologists. If it were a disease, back pain would be called an epidemic. At least 5 million people will consult their doctor about back pain this year. The total costs to the UK alone are estimated at 12 billion/year. This book details the common conditions that cause back pain and outlines a methodology for the diagnosis, investigation, and treatment of these conditions. This is a companion to Volume 1 with the same title and a similar approach: namely to draw together current understanding of the multifactorial nature of back pain. Both volumes together contain chapters contributed by most of the leading researchers into back pain in the UK and as such they constitute an unparalleled resource. Rather than concentrating on specialist areas such as surgery or the lumbar spine, the emphasis is on understanding the function and failure of the spine and its component tissues. As such it contains material which is applicable to anyone with an interest in any aspect of the spine, from biomechanics to blood flow, epidemiology to economics, nerves to nutrition and everything else in between. An essential, one-stop reference guide to the aetiology and clinical management of the high-respecting, this volume gives a clear description 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. A Comprehensive Guide

Fundamentals of Diagnosis and Treatment

The Lumbar Spine

Diagnosis and Medical Management

Benzel's Spine Surgery

Manual Physical Therapy of the Spine - E-Book

Comprehensive guide to the diagnosis and management of spinal disorders, for trainees. Covers anatomy, biomechanics, pathophysiology and surgical and non surgical treatment. US author team.

Fulfilling the need for an easy-to-use resource on managing musculoskeletal disorders and sports injuries, this book provides differential diagnostic workups with recommended gold standard evaluations that lead to a simple and accurate diagnosis, followed by first-line treatment options. Organized by five sections - head and neck, upper extremity, lower extremity, abdomen/pelvis with trunk and chest, and cervical, thoracic and lumbosacral spine - chapters present a concise summary and move on to a description of the most common symptoms, etiology, epidemiology and/or common causes if traumatic in nature. The best and most accepted diagnostic tests are illustrated, along with recommended evidence-based medicine and what may be done based on community standards of care. Treatment options will be listed in order of the most conservative to the most aggressive. This complete reference will provide primary care, physiatry, and ER physicians, residents, PA's and students a simple and practical approach for clinical and academic use.

This review of non-surgical care of the spine addresses the treatment of the majority of patients seeking relief from back pain. All aspects of back-care - from anatomy, physiology, and biomechanics - to psychosocial, emotional, and economic factors - to assessment of pain in disability, ergonomic considerations in work place design, vocational retraining and legal issues are covered. Occupational medicine, osteopathic physiotherapy, sports medicine and chiropractic options to spinal care are fully covered as well as surveillance systems for the acutely injured patient. In discussing the sub-acute patient, rehabilitation and reconditioning, quantification of function, and pre- and post-operative considerations are described. This book offers specific recommendations for the rehabilitation of the patient with spinal disorders - particularly low back pain.

The principles of treatment of spinal disorders are covered in this comprehensive, lavishly illustrated text. Corresponding X-Rays, CTs and MRIs are included with most of the line drawings to accentuate important landmarks and findings. Spinal deformity, biomechanics of the spine, embryology, osteoporosis, disorders of the cervical spine, non-operative care of the spine, tumors of the spine and physical examination are discussed. An overview of epidemiology and the treatment of congenital and acquired disorders are also included. Each chapter features a "key points" section for quick reference and review.

Management of Spinal Disorders in Young Children

Research Developments in the Spinal Disorders

Essentials of Spinal Disorders

The Clinician's Guidebook to Lumbar Spine Disorders

Spinal Disorders

Medical and Surgical Management

Spinal disorders are among the most common medical conditions with significant impact on health related quality of life, use of health care resources and socio-economic costs. This is an easily readable teaching tool focusing on fundamentals and basic principles and provides a homogeneous syllabus with a consistent didactic strategy. The chosen didactic concept and messages are repeated throughout the chapters. This textbook, with its appealing layout, will inspire and stimulate the reader for the study of spinal disorders.

Studies of human movement have proliferated in recent years, and there have been many studies of spinal pathways in humans, their role in movement, and their dysfunction in neurological disorders. This comprehensive reference surveys the literature related to the control of spinal cord circuits in human subjects, showing how they can be studied, their role in normal movement, and how they malfunction in disease states. Chapters are highly illustrated and consistently organised, reviewing, for each pathway, the experimental background, methodology, organisation and control, role during motor tasks, and changes in patients with CNS lesions. Each chapter concludes with a helpful resume that can be used independently of the main text to provide practical guidance for clinical studies. This will be essential reading for research workers and clinicians involved in the study, treatment and rehabilitation of movement disorders.

This book is a comprehensive guide to the basic science of spinal diseases for trainees and clinicians. Divided into four sections, the authors begin with detailed discussion on the anatomy, physiology and pathophysiology of the intervertebral disc. The following sections examine the science of spinal instrumentation and spinal interventions. Clinical chapters are structured in a uniform format, beginning with the presentation of a clinical case, followed by detailed discussion and supporting evidence. Each case ends with challenging questions to direct further investigation. This book is a highly useful compilation of research work from recognised surgeons from the USA and The Netherlands, specialising in the fields of physiology, biology, biomechanics and mechanobiology. Key points Comprehensive guide to the basic science of spinal diseases Based on research work of specialists in physiology, biology, biomechanics and mechanobiology US and Dutch author and editor team Includes nearly 240 full colour images and illustrations

There has been significant progress in the field of spinal disorders in very young children over the past two decades. However, the treatment of such conditions remains challenging due to the age of the patient, different etiologies, associated morbidities and the progressive nature of the deformity. Depending on the etiology of the deformity, these children are often cared for by multiple specialists including pediatricians, pulmonologists, pediatric orthopedists or orthopedic spine surgeons, pediatric surgeons, pediatric neurosurgeons, neurologists and oncologists. Health professionals in all of the mentioned disciplines are involved in the management of these patients, which is why compiling a comprehensive text that is not limited to orthopedic specialists is essential. Since the second edition of this book was published, there has been a significant body of literature that has been published and advances made in the care of young children with spinal and thoracic deformities. This new edition will effectively help to standardize the care of these patients. Furthermore, other professionals, such as nurses, physical therapists and healthcare professionals in training, are usually not familiar with these conditions and are in need of a reference book to consult when caring for young children with spinal deformities. Sections are arranged thematically and comprise a comprehensive presentation of the current knowledge on disorders of the growing spine.

After opening sections discussing general considerations and patient evaluation and diagnosis, subsequent sections describe the various categories of spinal deformity - idiopathic, congenital, neuromuscular, syndromic, and others - followed by surgical and non-surgical management strategies, both traditional and growth-friendly. Concluding sections address patient care and outcomes and outline future directions for research and practice.

Its Role in Motor Control and Movement Disorders

Textbook of Spinal Disorders

Diagnostic Imaging of the Spine and Spinal Cord

100 Questions & Answers About Spine Disorders

The Encyclopedia of the Back and Spine Systems and Disorders

A Textbook for Rehabilitation Sciences Students

Spine disorders, including degenerative disk disease, spinal tumors, scoliosis, spinal trauma, etc. are very common. The problems range from inconvenient to life-threatening. New treatments are curing or at least improving the Quality Of Life of spine disorder patients. This easy to read book answers all questions that a patient diagnosed with a spine disorder will need to know. Comprehensive, up-to-date textbook on the imaging of frequently encountered spinal disorders - Richly illustrated - All imaging modalities considered, e.g. plain film, multidetector CT and MRI - Designed to ensure ease of use, with a logical structure and extensive index

An essential information source for all healthcare providers treating patients with cervical, thoracic and lumbar spine disease. Updated to keep pace with the cutting edge of technology, the new edition of this essential text has been reorganized and expanded. The broad scope of spinal disorders is covered, along with an abundance of color and black-and-white illustrations. Its well-organized approach begins with chapters on relevant anatomy and clinical examination, proceeding to delve into operative diagnostic aids, concluding with the review of each spinal disorder. This edition moves from an atlas-style presentation to that of a fully illustrated text. Lengthy figure legends have been replaced with shorter, easier-to-digest figure legends. 50 new color prints and line figures enhance coverage on new spine surgery techniques. A description-rich presentation of surgical procedures is provided for every clinical practice.

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Imaging Modalities in Spinal Disorders

The Circuitry of the Human Spinal Cord

Current Treatment of Spinal Disorders: an Update for the Primary Care Physician

Current Concepts

Basic Science of Spinal Diseases

As both a spine surgeon and chiropractor, Dr Donald Corenman has developed a comprehensive understanding of lumbar disorders and conditions. His more than thirty years of practice on both sides of the fence have taught him that the treatment options expand when the disorder is well understood. This book covers the whys and wherefores of all lower back and leg pain management from chiropractic and physical therapy to surgery and is presented in a logical and easy to understand manner.

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.

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Imaging Modalities in Spine Surgery

Managment of Spinal Disorder

ABC of Spinal Disorders