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Complications after Primary Total Hip Arthroplasty
A Comprehensive Clinical Guide
Covering both acute post-operative and chronic complications following total hip arthroplasty (THA), this comprehensive clinical guide provides diagnostic and management strategies and techniques for orthopedic surgeons at every level. Utilizing a case-based approach, each condition is discussed in terms of its epidemiology, risk factors, and preventative measures, with a brief literature review providing evidence for the diagnosis and treatment each author selects. The first section covers acute post-operative complications, discussing peripheral nerve and vascular injuries, periprosthetic fractures and infections as well as thromboembolic events. The second section covers chronic [...] More on www.springer.com/978-3-319-54911-8

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Clinical Anatomy of the Shoulder
An Atlas
This book provides detailed information on functional anatomy, physical examination, and clinical radiology of the shoulder with a view to enabling the clinician to identify the most suitable treatment approach to different shoulder joint pathologies. In addition, it describes the arthroscopic treatment techniques most frequently employed in patients with these conditions and presents numerous arthroscopic images detailing characteristic findings. The shoulder is widely regarded as the most complex joint in the human body, displaying the widest range of motion. Knowledge of normal and pathological anatomy, ability to perform a proper physical examination, and appropriate [...] More on www.springer.com/978-3-662-54183-8

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This book explores in a comprehensive manner the causes and symptoms of muscle and tendon pathologies, the available diagnostic procedures, and current treatment approaches. Specific aspects of the anatomy, biomechanics, and function of muscles and tendons are analyzed, and detailed guidance is provided on the most innovative methods – both conservative and surgical – for ensuring that the athlete can make a safe and quick return to sporting activity. Optimal care of tendon and muscle injuries in sports-people requires effective cooperation of sports scientists and medical practitioners to identify the best ways of preserving muscle and tendon structures and to develop new strategies [...] More on www.springer.com/978-3-662-54183-8

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Tutorials in Patellofemoral Disorders
This book adopts a case-based approach to the management of patellofemoral disorders with the aim of helping orthopaedic surgeons at all levels of experience to decide whether individual patients referred with patellofemoral problems should be treated conservatively or operatively. A series of real-life case stories are used to illustrate every stage of the decision-making process and to explore the reader’s higher-order thinking around patient management. In each case study, the patient’s history, clinical and imaging findings, and management are reported, during the course of which the reader is asked searching questions. The reader is then able to compare his or her responses with [...] More on www.springer.com/978-3-319-45664-5

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Practical Strategies for Success for Senior Medical Students
The 4th year of medical school represents an important transition with new goals and expectations. Matching into orthopedic surgery residency is increasingly competitive. Performing well on orthopedic surgery rotations during the 4th year of medical school is critical for match success. The goal of this guide book is to help students ace their orthopedic rotations. Orthopedic Surgery Rotation focuses on practical tips for success from optimal study resources, key technical skills, and strategies for being a standout orthopedic team player. Each chapter is written by current orthopedic residents, who not only know from personal experience on how to excel but also are actively involved [...] More on www.springer.com/978-3-319-45664-5

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Extreme Sports Medicine
This technically oriented book on medicine as applied to extreme sports offers broad coverage of the field extending well beyond the usual focus on major
trauma and acute injuries. In addition to the injuries and diseases associated with individual extreme sports, this book also addresses the topics of psychology, dermatology, ophthalmology, infectious diseases, physiology, nutrition, training, injury prevention strategies, rehabilitation, doping, treatment in hostile environments, and legal aspects. Innovative and less frequently considered topics are also discussed, such as recent advances in protective equipment and materials, the effects of exposure on whole-body vibration, and [...] More on www.springer.com/978-3-319-28263-3

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**Forthcoming**
G.I. Groh (Ed.)

**Clavicle Injuries**
*A Case-Based Guide to Diagnosis and Treatment*

This is the first book of its kind to specifically cover all aspects of clavicle injury management, from anatomy and biomechanics to anesthesia and radiology, with the bulk of the chapters presenting current treatment strategies, both operational and otherwise. The clavicle is the most frequently injured bone in the human body, but despite the frequency of injury, there is a remarkable breadth of treatment options and controversy regarding operative and non-operative treatment, with intramedullary fixation and plate techniques both having avid supporters. Each chapter presents expert opinion and relies on biomechanics, anatomy, radiography, evidence-based medicine and outcome in a well-organized manner, thereby facilitating assessment and treatment techniques. Drawing on the results of recent studies, the book will enable the reader to better understand how tears occur and what treatment should be employed in different circumstances. Rotator cuff tear has always attracted great interest because it may cause shoulder pain, loss of strength, simple or complex disabilities, and partial or total inability to work, reducing quality of life. The goals of cuff [...] More on www.springer.com/978-3-319-33354-0

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**Pediatric Femur Fractures**
*A Practical Guide to Evaluation and Management*

Bringing together the many considerations and complexities surrounding the management of pediatric femur fractures, this up-to-date, comprehensive book discusses all aspects of these common but challenging injuries, where the treatment strategies are rapidly changing and which have the potential for complications and less than ideal outcomes. Because there may be multiple acceptable treatment approaches to a given fracture, we sought to review the full spectrum of therapeutic modalities. The entirety of the pediatric femur is considered, including femoral head and neck fractures, diaphyseal, physeal and epiphyseal fractures, and intra-articular fractures of the distal femur. Opening with [...] More on www.springer.com/978-1-4899-7984-1

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D. Hedequist, B. Heyworth (Eds.)

**The Shoulder**

This book provides a broad overview of operative and non-operative treatments of various conditions affecting the shoulder. It is presented in an easy to use format with each chapter including multiple choice questions to help the reader prepare for boards to improve shoulder knowledge and increase success in exams. The Shoulder clearly describes the basic science, anatomy, biomechanical features and principals of physical examination while utilising an algorithmic approach to shoulder disorders. The contributors are an international team of shoulder experts who understand what is important to know at every level. The result is a book of value to those new to shoulder [...] More on www.springer.com/978-3-319-51977-7

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**Erscheinungstermin: April 29, 2017**

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A.B. Imhoff, F.H. Savoie III (Eds.)

**Shoulder Instability Across the Life Span**

This book outlines the consensus findings of the ISAKOS Upper Extremity Committee regarding the treatment options for patients suffering from shoulder instability. The aim is to furnish readers with a precise knowledge of the presenting features of conditions typical of different ages, thereby facilitating assessment of patient characteristics and optimal treat-
The book opens with a review of the baseline mechanics and pathomechanics of the scapula, proceeds to evaluation, then describes in detail the association of the scapula with specific shoulder problems, including rotator cuff disease, labral injuries, glenohumeral and multidirectional instability, clavicle fractures,[...]

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Forthcoming

R.F. LaPrade, E.A. Arendt, A. Getgood, S.C. Faucett (Eds.)

The Menisci
A Comprehensive Review of their Anatomy, Biomechanical Function and Surgical Treatment

This book is a comprehensive journey through the pathogenesis and treatment of meniscal pathology. It details the elements that are necessary to properly understand, diagnose, and treat meniscal tears, ranging from vertical tears to radial tears and root avulsions. Treatment techniques are thoroughly described and illustrated, with presentation of the latest evidence on outcomes. The algorithmic treatment of meniscal tears has undergone a rapid transformation. We have progressed from the initial treatments involving removal of the meniscus using an open technique, to the performance of partial meniscectomies and complex meniscal repairs by means of an arthroscopic technique. The[...]

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Forthcoming

K. Lampropoulou-Adamidou, G. Hartofilakis

Total Hip Replacement
Case Series from a Leading Registry

Setting out from the premise that “a picture is worth more than a thousand words”, this book presents a superb set of illustrations, with accompanying clinical data, relating to a series of cases from a single surgeon registry. The series has the benefit of offering exceptional homogeneity of data from patients who have undergone total hip replacement (THR) and have been subjected to long-term follow-up with repeated acquisition of radiographs. This THR registry was established at the time when the Orthopaedic Department of the University of Athens became one of the first centers in Greece to perform THR. It now tests, radiological exams, microbiological analysis, and biomechanical assessment of the implant wear.

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Histological evaluation of the periprosthetic soft and osseous tissues is an important analytical tool. Its standardization is essential to generate accurate and reproducible data which allow comparisons for academic institutions, arthroplasty registries, and government regulatory agencies worldwide. It is also part of multidisciplinary evaluation of orthopedic implant failures and provides valuable information to be integrated with the clinical data, allergological

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From Molecular Mechanism to Clinical Applications

This book discusses recent advances and various topics in plasticity of skeletal muscle from the perspectives of morphology, biological function, and clinical applications. Skeletal muscle is a highly plastic organ to adapt to environmental various demands, appears to endocrine various myokines, which flow into blood to protect the recognizing function of brain and inhibit the appearance of several cancer tumorigenesis. The book deals with current stem-cell based, pharmacological, and nutritional therapies for muscle wasting (sarcopenia, cachexia, and muscular dystrophy). It also explains the roles of biological
discusses pre-collapse treatments aimed at the early case outcome and clinical pearls and pitfalls. Part I manages techniques used to treat it, as well as the description of the diagnosis, assessment and management of a unique clinical presentation, followed by a lapse conditions. Each chapter is a case that opens properly diagnose and treat both pre- and post-collapse stages of ONFH, including the use of bisphosphonates, stem cell therapy and minimally invasive core decompression. Chapters presenting[...]


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Now in a revised and updated second edition, this practical guide remains an invaluable resource for improving the management of hip and pelvic injuries and presents a spectrum of treatment options for children, adolescents, adults and special populations. Opening with valuable clinical pearls for each topic, differential diagnosis is emphasized throughout the chapters, and evidence-based guidelines and sport-specific considerations aid the reader with injury evaluation and care. From fundamentals—including epidemiology, history and physical examination, imaging and gait assessment—to functional therapeutic interventions, injection techniques, taping and bracing, and both surgical and[...]

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Providing a detailed review of one of the most common clinical problems, elbow instability, this comprehensive text organizes the most up-to-date, evidence-based information on the rapidly advancing field of elbow surgery. Initial chapters focus on anatomy, biomechanics and the most currently utilized surgical approaches for the treatment of the unstable elbow. Subsequent chapters focus on the evaluation and surgical treatments of acute instabilities, such as simple dislocations and fracture-dislocations, as well as chronic instabilities, including chapters focusing on the non-operative and operative management of the throwing athlete. The final chapters describe additional treatment[...]

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