

E. Carlos Rodríguez-Menchán
Sam Österudrik Editors

Total Knee Arthroplasty

A Comprehensive Guide



Springer

Total Knee Arthroplasty A Comprehensive Guide

James V. Bono, Richard D. Scott



Total Knee Arthroplasty A Comprehensive Guide:

Total Knee Arthroplasty E. Carlos Rodríguez-Merchán, Sam Oussedik, 2015-06-15 This book offers a comprehensive guide to total knee arthroplasty TKA that will assist in achieving excellent outcomes based on a sound understanding and technique After an introductory section on the native knee that covers the anatomy physiology biomechanics and patterns of disease all aspects of primary knee arthroplasty are discussed in detail Individual chapters are devoted to topics such as acute pain management the role of technological aids prosthetic kinematics alignment targets unicompartmental arthroplasty patellar resurfacing outcome measures and cost effectiveness An extensive section explains the causes and management of potential complications including aseptic failure infections and periprosthetic fracture The surgical techniques appropriate for revision knee arthroplasty are described separately and guidelines on how to deal with bone loss instability and extensor mechanism failure are provided The authors are all respected experts from the United Kingdom United States Australia and Europe

Comprehensive Guide in Knee & Hip Arthroplasty Parag Sancheti, Rami Sorial, Ashok Shyam, Sunny S Gugale, 2019-03-18 Section 1 Science of Arthroplasty 1 How to Establish a Successful Arthroplasty Practice 2 Critical Surgical Anatomy for Safe Total Knee Arthroplasty 3 Surgical Anatomy for Total Hip Arthroplasty 4 Kinematics of Knee Arthroplasty 5 Biomechanics of the Hip Joint 6 Modern Cement Technology in Arthroplasty 7 Bearing Surfaces for Total Hip Arthroplasty Material and Design 8 Mechanical Failure of Hard on Hard Bearings in Arthroplasty and Preventive Measures 9 Alternative Bearings in Total Hip Arthroplasty 10 Essential Knowledge about Polyethylene 11 The Science of Ligament Balancing 12 Scientific Basis for Unicompartmental Knee Replacement Technical Implications 13 Thromboprophylaxis in Total Joint Arthroplasty 14 Patellofemoral Kinematics in Total Knee Arthroplasty Design 15 Understanding Mid Flexion Instability in Total Knee Arthroplasty Section 2 Primary Knee Arthroplasty 16 Surgical Approaches to the Knee 17 Concepts Underlining Balancing in Total Knee Arthroplasty 18 Components Rotational Alignment in Total Knee Arthroplasty 19 Posterior Cruciate Ligament in Total Knee Arthroplasty Balancing the Controversy 20 Algorithm for Dealing with Varus Deformity 21 Algorithm for Dealing with Fixed Flexion Deformity 22 Classification and Treatment Algorithm of a Valgus Knee 23 Total Knee Replacement in Valgus Knees An Algorithmic Approach 24 Dealing with Severe Valgus Knee 25 Total Knee Arthroplasty after High Tibial Osteotomy 26 Total Knee Replacement in Complex Multiplanar and Segmental Knee Deformities 27 Rotating Mobile bearing Total Knee Arthroplasty 28 High flexion TKA View through the Mist 29 Navigation in Total Knee Replacement 30 Extensor Mechanism Deficiency in Total Knee Arthroplasty 31 Patellofemoral Arthroplasty 32 Noncemented Primary Total Knee Arthroplasty 33 Current Role of Patient specific Instrumentation in Total Knee Arthroplasty 34 UKA The Mobile bearing Option 35 Fixed bearing Unicondylar Knee Arthroplasty 36 Minimal Invasive Unicondylar Knee Arthroplasty 37 Multicompartment UKR and ACL Reconstruction Section 3 Revision Total Knee Arthroplasty 38 Surgical Approaches for Revision Total Knee Arthroplasty 39 Evaluation of Painful Total Knee Arthroplasty

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Advances in Revision Total Knee Arthroplasty E. Carlos Rodríguez-Merchán, 2024-06-21

This book offers a comprehensive guide to revision total knee arthroplasty a complex surgical procedure with increasing numbers due to the aging world s population Covering both septic and aseptic prosthetic failure it presents an updated overview of available surgical techniques from one or two stage revision for periprosthetic joint infection to robot assisted total joint arthroplasty Moreover the authors explore the current role and future potentialities of artificial intelligence This volume offers the reader state of the art information aiming to illuminate contentious topics in the field

The Unhappy Total Knee Replacement Michael T. Hirschmann, Roland Becker, 2015-09-15

This book addresses the need for improved diagnostic and treatment guidelines for patients in whom total knee arthroplasty TKA has had an unsatisfactory outcome It opens by discussing the basics of TKA and the various causes of failure and pain Diagnostic aspects are considered in detail with attention to advances in clinical investigation laboratory analysis and in particular imaging techniques In addition helpful state of the art diagnostic algorithms are presented Specific pathology related treatment options including conservative approaches and salvage and revision TKA strategies are then explained with identification of pitfalls and key points A series of illustrative cases cover clinical scenarios frequently encountered in daily clinical practice The evidence based clinically focused guidance provided in this book written by internationally renowned experts will assist surgeons in achieving the most effective management of these challenging cases

Total Hip Arthroplasty Olusegun

Onibonoje, 2012-01-01

Revision Total Knee Arthroplasty Hosam E. Matar, Benjamin V. Bloch, Hugh U. Cameron, Peter J.

James, 2021-09-03 This book is a practically applicable guide to the use of revision total knee arthroplasty Demand for primary total knee arthroplasty TKA continues to rise with some estimates predicting this to be as high as 400% than it currently is and this will inevitably lead to increased demand for revision surgery Furthermore this is a sub specialist area of

arthroplasty that is complex and challenging with high failure rates meaning that there is a real need to improve the outcomes of these procedures Within this book the chapters focus on a particular subject area focusing on how to successfully perform a procedure in a step by step manner in a variety of scenarios from condylar revisions to salvage cases Topics covered include how to use surgical techniques in instances of periprosthetic distal femur fractures and manage infections where bone loss has been significant Long term outcome data is also presented to enable the reader to develop a deep understanding of where a particular strategy might be most effective Revision Total Knee Arthroplasty A Practical Guide concisely details how to use the techniques covered in all aspects of revision knee surgery making it an indispensable resource for all those involved in the care of these patients or who use these techniques in their day to day clinical practice

A Comprehensive Guide to Geriatric Rehabilitation E-Book Timothy L. Kauffman, Ronald W. Scott, John O. Barr, Michael L. Moran, 2014-09-05 Now in its third edition this trusted clinical guide enables both the busy practitioner and student to review or to learn about a range of pathologies conditions examinations diagnostic procedures and interventions that can be effectively used in the physical rehabilitation of older people It presents a broad overview of age related physiological changes as well as specific professional discipline perspectives Organized into eleven distinct and interrelated units the first unit begins with key anatomical and physiological considerations seen with aging which have significant impact on the older person The second and third units go on to review important aging related conditions and disorders of the musculoskeletal and neuromuscular neurological systems respectively Neoplasms commonly encountered in older people are the focus of the fourth unit while aging related conditions of the cardiovascular pulmonary integumentary and sensory systems are presented in units five through seven Unit eight highlights a range of specific clinical problems and conditions commonly encountered with older patients Critically all of these units emphasize important examination and diagnostic procedures needed for a thorough evaluation and stress interventions that can be of significant benefit to the older patient The ninth unit presents select physical therapeutic interventions that are especially important in managing rehabilitative care Key societal issues related to aging are discussed in the tenth unit Finally the concluding eleventh unit focuses on the successful rehabilitation team that includes both professional and non professional caregiver members A trusted guide to the conditions and problems faced when evaluating and treating geriatric patients Extensive coverage over 84 chapters each written by an expert in the field Includes imaging vision and the aging ear Cross referenced providing the complexity and inter relatedness of co morbidities common to aging patients Collaborative international perspective Chapters on the aging spine frailty safe pilates for bone health health care for older people Additional renowned editor Ronald W Scott Revised title to reflect the comprehensive scope of content covered previously entitled Geriatric Rehabilitation Manual *Medical Claims Adjudicator - The Comprehensive Guide* DEAN STRATTON, 2025-10-18 Unlock the full potential of your healthcare career with Medical Claims Adjudicator The Comprehensive Guide a definitive handbook for mastering the complex world of medical claims

processing Designed for both beginners and seasoned professionals this book provides a clear roadmap to understanding insurance claim lifecycles payer provider relationships healthcare coding and compliance regulations Inside you ll find detailed insights on claim review methodologies fraud detection HIPAA requirements and adjudication decision logic Real world case studies and hypothetical claim scenarios illustrate how to analyze and resolve denials manage appeals and ensure accuracy in every claim decision Step by step workflows visual breakdowns and expert tips make even the most intricate adjudication rules accessible and practical Whether you re preparing for a career as a medical claims adjudicator enhancing your skills in health insurance operations or leading a compliance team this guide offers everything you need to excel Written in an engaging and original style it combines technical precision with relatable examples that bring clarity and confidence to your adjudication journey Perfect for healthcare professionals students and administrative leaders seeking to navigate the intersection of healthcare policy data accuracy and operational efficiency

Operative Orthopaedics: The Stanmore

Guide Timothy W R Briggs,Jonathan Miles,William Aston,2009-12-25 Operative Orthopaedics is a definitive and comprehensive guide to elective orthopaedic surgery for trainees preparing for FRCS and surgeons at MRCS level With the emphasis on techniques employed and the reasoning behind them this book is both a practical instruction manual and a revision tool Based on the authoritative Stanmore course run by t

Soft Tissue Balancing in Total Knee Arthroplasty

Shuichi Matsuda,Sébastien Lustig,Willem van der Merwe,2017-05-02 In this booklet experts from across the world including members of the ISAKOS Knee Arthroplasty Committee offer clear up to date guidance on all aspects of soft tissue or ligament balancing in primary total knee arthroplasty with the aim of enabling the reader to achieve optimal patient outcomes After an introduction explaining the normal soft tissue condition in the native knee surgical procedures are described including techniques for the management of severe deformity The most striking feature of the booklet however is the many pages devoted to the accurate evaluation and clinical relevance of ligament balancing Different techniques and devices for intraoperative soft tissue assessment are discussed highlighting for example the use of gap measuring devices or trial liners with load bearing sensors to achieve more objective evaluation Above all special attention is devoted to the crucial issue of the impact of intraoperative soft tissue balance on postoperative results In the closing chapter very experienced surgeons introduce intraoperative troubleshooting in order to assist successful completion of arthroplasty

Operative Orthopaedics Timothy WR Briggs,Jonathan Miles,William Aston,Heledd Havard,Daud TS Chou,2020-12-16 Revised updated and expanded Operative Orthopaedics The Stanmore Guide Second Edition is a definitive and comprehensive guide to elective orthopaedic surgery It is suitable for junior trainees during their various orthopaedic rotations and senior trainees preparing for the Fellowship of the Royal College of Surgeons FRCS Tr and Orth examination With the emphasis on surgical techniques employed and the reasoning and evidence base behind them this book is both a practical instruction manual and a revision tool for the examination The procedures identified by the Specialist Advisory Committee including areas such as

tumour surgery paediatrics and limb reconstruction are included Each chapter follows a simple and consistent format explaining the surgery from preoperative planning and consent through to approaches techniques and postoperative care The chapters also include key references and sample Viva Questions to extend and reinforce learning Key Features New updated surgical techniques Highly illustrated to help explain surgical concepts easily Key point boxes to facilitate learning Recommended references for FRCS Tr and Orth examination success Editors Timothy WR Briggs MD MBBS Hons MCH Orth FRCS Eng FRCS Ed MD Res Royal National Orthopaedic Hospital Trust Stanmore United Kingdom Jonathan Miles MBChB FRCS Tr Orth Royal National Orthopaedic Hospital Trust Stanmore United Kingdom William Aston BSc MBBS FRCS Tr Orth Edinb Royal National Orthopaedic Hospital Trust Stanmore United Kingdom Heledd Havard BSc MBChB MSc FRCS Tr Orth Royal National Orthopaedic Hospital Trust Stanmore United Kingdom Daud Chou MBBS BSc MSc FRCS Tr Orth Cambridge University Hospitals NHS Foundation Trust Cambridge United Kingdom

A Comprehensive Guide to Sports

Physiology and Injury Management Stuart Porter, Johnny Wilson, 2020-11-13 Divided into two parts physiology and sports injury management this is an innovative clinical and evidence based guide which engages with the latest developments in athletic performance both long and short term It also considers lower level exercise combined with the pertinent physiological processes It focuses on the rationale behind diagnostic work up treatment bias and rehabilitation philosophy challenging convention within the literature to what really makes sense when applied to sports settings Drawing upon experts in the field from across the world and various sports settings it implements critical appraisal throughout with an emphasis on providing practical solutions within sports medicine pedagogy Dovetails foundational sports physiology with clinical skills and procedures to effectively manage sports injuries across a variety of settings Takes an interdisciplinary approach and draws upon both clinical and evidence based practice Contributed by leading international experts including academics researchers and in the field clinicians from a range of sports teams including the Royal Ballet and Chelsea FC Pedagogical features include learning objectives clinical tip boxes summaries case studies and Editor s commentary to critique of concepts and techniques across chapters

Revision Total Joint Arthroplasty E. Carlos

Rodríguez-Merchán, 2019-10-29 This comprehensive book is devoted to revision total joint arthroplasty and provides state of the art guidance in a field where level I evidence is difficult to produce In the book s respective sections each of which focuses on a specific joint the knee hip shoulder elbow or ankle readers will learn how to manage these complex surgical techniques Each section thoroughly describes the epidemiology causes and surgical techniques as well as clinical results and complications Filling an important gap in a rapidly evolving field this book will appeal to all healthcare workers involved in the care of affected patients including orthopedic surgeons and fellows rehabilitation specialists pain physicians podiatrists and nurses

Mastering Orthopedic Techniques: Revision Knee Arthroplasty Rajesh Malhotra, Deepak

Gautam, 2019-06-30 Total knee replacements TKRs are very successful procedures but they eventually wear out and

sometimes complications may develop requiring a further operation revision knee replacement A revision or re do total knee replacement procedure involves the removal of the existing TKR and its replacement with new components This book presents orthopaedic surgeons with the latest developments current indications and critical issues in revision knee arthroplasty providing in depth discussion on surgical reconstruction of the knee and basic knee joint deformities Part of the successful Mastering Orthopedic Techniques series the book is highly illustrated with surgical photographs operative diagrams X Ray images and tables Other titles in the series include Total Knee Arthroplasty Total Hip Arthroplasty Revision Total Hip Arthroplasty Spine Surgery Intra articular Fractures and Knee Reconstruction Key Points Complete guide to revision knee arthroplasty for orthopaedic surgeons Presents latest advances current indications and critical issues Highly illustrated with surgical photographs diagrams X Rays and tables Part of the successful Mastering Orthopedic Techniques series

Revision Total Knee Arthroplasty James V. Bono, 2005-03-17 James V Bono MD and Richard D Scott MD two leading authorities in the field edited this invaluable how to book on corrective surgery for failed total knee arthroplasty The text has an in depth comprehensive approach geared for orthopedic surgeons sports medicine specialists and residents All fundamental aspects of revision total knee arthroplasty and its complications are covered More than 350 illustrations 60 in full color complement well written explanations of general principles surgical procedures and special considerations Top experts in orthopedics offer clinical pearls on topics such as diagnosis and evaluation pre op planning and component selection surgical approach revision technique post op complications and salvage Radiologists also detail the use of imaging for evaluation Economics and reimbursement are addressed as well Readers will find that this thorough and accurate book is an unprecedented guide that unravels the complexity of revision total knee arthroplasty

Knee Arthroplasty Mrinal Sharma, 2022-06-03 This book offers a comprehensive guide to knee arthroplasty that will assist in achieving excellent outcomes based on a sound understanding and technique An introductory section on the primary knee arthroplasty that covers preoperative planning surgical exposures step by step approach to knee arthroplasty unicondylar knee arthroplasty and radiological assessment are discussed in detail The next section is devoted to topics pertaining to knee replacement in complex situations like bone defects stiff knees previous failed trauma and extra articular deformities A separate section has been dedicated to use of technology like Computer navigation and Robotics in TKA An extensive section explains the causes and management of potential complications including instability infections and periprosthetic fracture Individual chapters focussing on multimodal pain management deep vein thrombosis rehabilitation and newer advances have been included The surgical techniques appropriate for revision knee arthroplasty are described separately and guidelines on how to deal with bone loss instability gap balancing joint line restoration and use of bulk allografts hinges and condylar replacement prosthesis are provided The authors are all respected experts from the United Kingdom United States India and Europe The language of the book is easy to read user friendly with colourful pictorial representation of relevant surgical steps Case

based discussions surgical tips and pearls and summary has been added in each chapter The references given at the end of each chapter would be useful for those doing research This book should be of interest to practicing orthopaedic surgeon across the globe beginner arthroplasty surgeons postgraduate students of orthopaedics DNB students and those preparing for board exams This book will serve as a reference book for Master Arthroplasty surgeons as well as a compendium on Knee Arthroplasty Revision Total Knee Arthroplasty James V. Bono,Richard D. Scott,2005-12-06 Edited by two leading authorities in the field this volume is a technique oriented how to guide to an increasingly performed procedure corrective surgery for the failed total knee arthroplasty This book offers an in depth comprehensive approach for orthopedic surgeons sports medicine specialists and residents to revision total knee arthroplasty and its complications More than 350 illustrations 60 in full color complement detailed descriptions of surgical procedures This book offers clinical pearls on topics such as diagnosis and evaluation pre op planning and component selection surgical approach revision technique post op complications and salvage all covered by top experts in the field Lippincott Nursing Procedures Lippincott Williams & Wilkins,2022-03-14 Confidently provide best practices in patient care with the newly updated Lippincott Nursing Procedures 9th Edition More than 400 entries offer detailed evidence based guidance on procedures ranging from the most basic patient care to assisting with intricate surgeries The alphabetical organization allows you to quickly look up any procedure by name and benefit from the clear concise step by step direction of nursing experts Whether you re a nursing student are new to nursing or are a seasoned practitioner this is your go to guide to the latest in expert care and positive outcomes

Rothman Institute Manual of Total Joint Arthroplasty Javed Parvizi,William J Hozack,Peter F Sharkey,Gregory K Deirmengian,2017-03-31 This book is a complete guide to total joint arthroplasty for orthopaedic surgeons presented as a collection of key protocols for surgery Divided into four sections the text begins with preoperative considerations covering patient evaluation clinical examination indications and implant selection The following section provides step by step guidance on the complete range of arthroplasty techniques and associated procedures Section three covers postoperative management such as wound care transfusions physical therapy medication and much more The final chapters in the book discuss the management of numerous potential complications Edited by an internationally recognised team of experts led by Javad Parvizi from the renowned Rothman Institute in Philadelphia this comprehensive guide is enhanced by surgical images and diagrams to assist learning Key points Comprehensive guide to total joint arthroplasty for orthopaedic surgeons Presented as collection of key protocols for surgical procedures Provides step by step guidance from preoperative considerations to surgical techniques postoperative management and complications Edited by internationally recognised experts from the Rothman Institute Intramedullary Nailing Pol M. Rommens,Martin H. Hessmann,2015-01-12 This book contributes to the enhancement of fundamental and practical knowledge in the treatment of fractures healing disturbances and bone disorders with intramedullary nailing It promotes this biological and mechanical outstanding technique for appropriate indications and

ameliorate the standard of care for those patients who can profit from intramedullary nailing Orthopedic trauma surgeons from all over the world who work in the most different circumstances and with the most diverse technical and logistical equipment will find this book to be an essential resource and guide for their daily practice with intramedullary nailing

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