

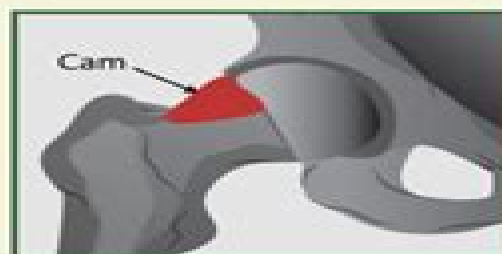
# The Principles of Hip Joint Preservation



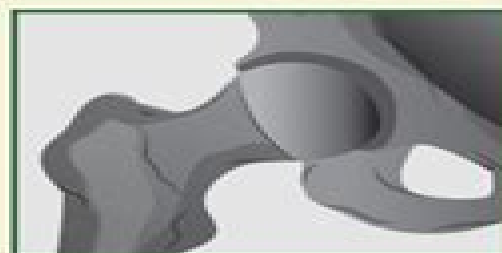
- Three primary anatomic factors must be considered for preservation of the hip joint:
  - Femoroacetabular impingement (FAI)
  - Acetabular dysplasia
  - Femoral rotational abnormalities (excessive anteversion)
- Each factor affects the integrity of the labrum and femoroacetabular cartilage
- All factors should be assessed in patients presenting with pre-arthritic hip pain

### Abnormalities and surgical treatment (right hip) may include:

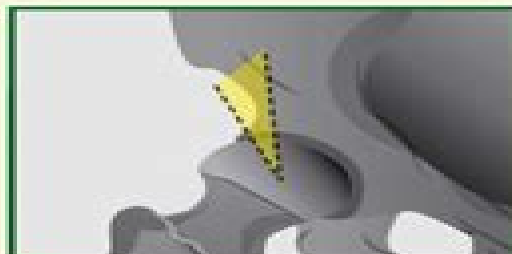
#### FAI



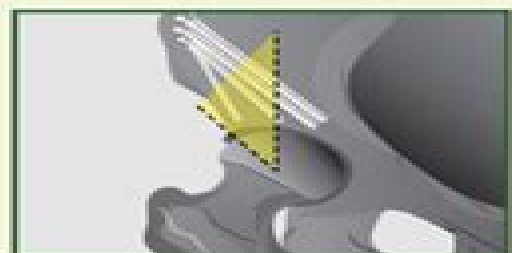
#### Femoroplasty



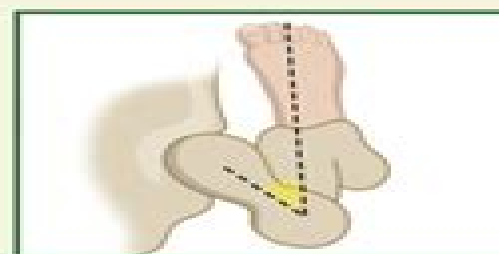
#### Acetabular dysplasia



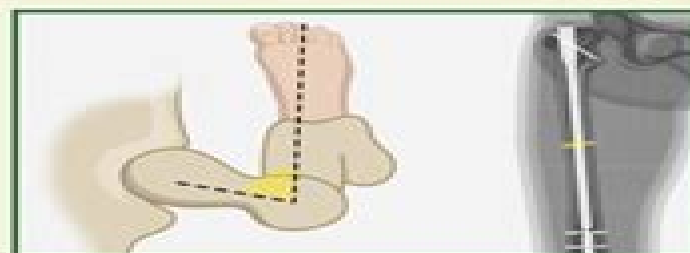
#### Periacetabular osteotomy



#### Femoral rotational abnormalities



#### De-rotational femoral osteotomy



For a successful outcome, careful preoperative planning is necessary to address all factors

Matthew J. Kraeutler, MD; Evan Hernandez, BS;  
Kristian Samuelsson, MD, PhD; Omer Mei-Dan, MD

# Hip Arthroscopy And Hip Joint Preservation Surgery

**Reinhold Ganz**



## **Hip Arthroscopy And Hip Joint Preservation Surgery:**

Hip Arthroscopy and Hip Joint Preservation Surgery Shane J. Nho, Asheesh Bedi, Michael J. Salata, Richard C. Mather III, Bryan T. Kelly, 2022-08-01 The field of hip preservation surgery has evolved over the past decade as our understanding of hip pathomechanics and pathomorphology has expanded The published literature on non arthritic hip pathology for example has grown exponentially The topics of controversy in the past decade have been answered in some cases but new questions have also arisen In addition to the 99 chapters in the original edition most of which will be retained and updated as applicable there will be over 30 brand new chapters focusing on new and more sophisticated techniques from authors that have been the pioneers of the field The text is divided into nine thematic sections covering the breadth of the topic and the current state of the art basic science of the hip operative basics for hip arthroscopy and open hip preservation surgery pediatric hip conditions approaches to disorders of the hip and pelvis enthesopathy and neuromuscular disorders hip fractures and instability avascular necrosis hip cartilage restoration and oncologic conditions Throughout there is a heavy emphasis on surgical techniques and video clips will be included in selected chapters Written by edited by thought leaders and seasoned practitioners in the field this new edition of Hip Arthroscopy and Hip Joint Preservation Surgery will remain the gold standard for orthopedic surgeons and sports medicine specialists expanding on the range of techniques available to clinicians treating injuries to and disorders of the hip     Hip Joint Restoration Joseph C. McCarthy, Philip C. Noble, Richard N. Villar, 2016-12-20 Hip Joint Restoration is a comprehensive yet practical guide to the basic science and clinical applications of arthroscopy arthroplasty osteotomy and preservation surgery for the treatment of diseases and conditions of the hip This generously illustrated text offers a comprehensive introduction to essential features of hip evaluation the medical management of hip procedures and treatment of specific conditions and covers practical topics such as surgical anatomy of the hip surgical approaches instrumentation and indications for arthroscopy and other surgical procedures aimed at restoration of the hip joint Additional chapters cover clinical outcomes and equality of life following hip surgery the current state of research and education of arthroscopic hip procedures throughout the world other topics such as complications and rehabilitation in different patient populations This book will be a useful resource for Orthopedic Surgeons and Osteopaths who perform open and arthroscopic hip preservation and total joint replacement as well as for orthopedic residents and researchers     *Hip Preservation Surgery* Nicolas Bonin, Filippo Randelli, Vikas Khanduja, 2020-05-28 This book offers practical guidance on all procedures that may be performed within the field of hip preservation surgery arthroscopy and endoscopy European experts share their experiences on everything from basic injections to the most challenging hip procedures offering step by step tutorials and highlighting important tips and tricks Whereas most books on hip arthroscopy and hip preservation surgery concentrate on pathologies surgical indications and the basics of the treatment here the focus is very much on the individual techniques and recognized variants These techniques are clearly and precisely described with

the aid of a wealth of photo and video illustrations The coverage encompasses procedures applicable in the widest range of scenarios including synovial pathologies labral chondral and bony injuries hip impingement dysplasia and instability snapping hips gluteus medius and minimus tendonitis and tears other tendinopathies post arthroplasty complications and rehabilitation The book is published in cooperation with ESSKA and will be an essential aid for orthopaedic surgeons at all levels of experience

**Modern Hip Preservation** Reinhold Ganz, 2022-05-18 This book comprehensively discusses both the history and the current concepts of modern hip preservation surgery Offering an overview of the game changing studies on the hip and pelvis vascular anatomy it thoroughly describes the evolution of a new and comprehensive pathophysiology of the hip joint degeneration Moreover in the first part particular emphasis is devoted to the history and current knowledge of femoroacetabular impingement and hip dysplasia The second part examines the main surgical procedures that have evolved and matured since the 1980s culminating in a new class of open surgical approaches such as hip surgical dislocation periacetabular osteotomies proximal femoral osteotomies and corrections and widening the door for hip arthroscopy Based on over 40 years of practical and pioneering experience by the editor and 15 years of collaboration with the GICCA Study Group this book offers a valuable resource to residents researchers and practicing orthopedic surgeon wishing to gain insights into hip preservation surgery

**Techniques in Hip Arthroscopy and Joint Preservation E-Book** Jon K. Sekiya, Marc Safran, Anil S. Ranawat, Michael Leunig, 2010-11-02 Techniques in Hip Arthroscopy and Joint Preservation Surgery is a stunning visual guide to the latest developments in the field Drs Jon K Sekiya Marc Safran and Anil S Ranawat and Michael Leunig provide a step by step balanced approach with contributions from an array of North American and international surgeons to pre operative planning surgical technique technical pearls management of complications and post operative rehabilitation Surgical videos online demonstrate techniques such as surgical hip dislocation for femoroacetabular impingement and arthroscopic femoral osteoplasty so you can provide your patients with the best possible outcomes Access the fully searchable text online at [www.expertconsult.com](http://www.expertconsult.com) along with a video library of surgical procedures Grasp the visual nuances of each technique through full color surgical illustrations and intraoperative photographs Watch expert surgeons perform cutting edge procedures such as complex therapeutic hip arthroscopy using a femoral distractor arthroscopic synovectomy and treatment of synovial disorders surgical hip dislocation for femoroacetabular important and arthroscopic femoral osteoplasty online at [www.expertconsult.com](http://www.expertconsult.com) Find information quickly and easily thanks to the consistent chapter format that includes technical pearls

**Hip Preservation Techniques** K. Mohan Iyer, 2019-04-15 Hip Preservation Techniques explores hip problems and presents and compares alternative protocols for treating the condition in children adolescents young adults and adults While poor long term outcomes of arthroplasty have led to an increasing dependence on procedures to conserve the native hip preservation surgery may maintain or protect a hip and prevent or delay the need for arthroplasty Well established techniques such as cartilage restoration and use of tissue derived mesenchymal stem cells are

presented and conceptually different procedures such as Bernese peri acetabular osteotomy Salter s and Pemberton s osteotomy are also discussed This book will be useful for medical students residents and consultants with an interest in hip preservation surgery Key Features Explores the emerging concepts in hip preservation surgery with a concise and to the point approach Discusses digital templating in total hip arthroplasty Examines the anterior approach to the hip for a minimally invasive prosthesis Offers a comprehensive coverage of the topic through beautiful illustrations Endoscopy of the Hip and Knee Tun Hing Lui,2021-08-05 This book provides detailed advancement endoscopy procedures of hip and knee It covers basic knowledge of procures and dedicated introduction of surgical techniques for disease management Endoscopic procedures with their advantage in surgical exposure and post operative rehabilitation have been extensively performed in orthopedic diseases Cases presentation with well illustrated arthroscopic and endoscopic photos for common clinical conditions was provided The format is a step by step procedure for easy reference particularly for surgeons in their training

**MR Imaging of the Hip, An Issue of Magnetic Resonance Imaging Clinics of North America** Jenny T.

Bencardino,2024-11-12 In this issue of MRI Clinics guest editor Dr Jenny T Bencardino brings her considerable expertise to the topic of MR Imaging of the Hip Top experts in the field provide a comprehensive look at major issues with the hip beginning with an update on imaging the hip and including articles on anatomy artificial Intelligence young adults stress injuries impingement syndromes and many more Contains 15 relevant practice oriented topics including an update on MRI techniques of the hip artificial intelligence applications in MRI of the hip diagnostic evaluations of stress injuries of the hip using MRI MRI of the hip infectious and inflammatory conditions MRI of tumors and tumor like conditions of the hip and more Provides in depth clinical reviews on MR Imaging of the Hip offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews *Hip Arthroscopy, An Issue of Clinics in Sports Medicine* F. Winston Gwathmey,2016-07-14 This issue of Clinics in Sports Medicine will focus on hip arthroscopy specifically imaging injections labrum cartilage capsule cam and many more exciting articles The Hip Joint K. Mohan Iyer,2021-11-10 The Hip Joint written in 2016 provides a detailed account of the hip joint s anatomy and biomechanics and covers recent trends in orthopaedic surgery of the hip joint including the latest advances in revision total hip arthroplasty THA computer assisted navigation for THA resurfacing of the hip joint and neoplastic conditions around the hip as well as indications complications and outcomes of hip arthroscopy Another book The Hip Joint in Adults Advances and Developments gives additional important details of how hip joint surgery has evolved around the world While much of the basic knowledge in this area is constant it is critically important to stay current on those areas that do change This updated second edition of The Hip Joint contains a host of original articles from contributory authors all around the world showing the evolution of the hip joint till the present day building upon the solid foundation set by the first edition It covers hot topics

such as 3D printing in orthopaedics and traumatology stem cell therapy in orthopaedics hip resurfacing hip preserving surgery sports medicine for the hip joint robotic assisted surgery in orthopaedics and neoplastic conditions around the hip

The Hip J.W. Byrd, Asheesh Bedi, Allston Stubbs, 2024-06-01 Co published with the Arthroscopy Association of North America The Hip AANA Advanced Arthroscopic Surgical Techniques is a comprehensive technique based book that presents the latest diagnostic and reconstructive techniques in arthroscopic surgery for the hip The Hip AANA Advanced Arthroscopic Surgical Techniques is authored by premier arthroscopic surgeons Drs J W Thomas Byrd Asheesh Bedi and Allston J Stubbs and their international list of expert contributors This comprehensive resource includes preferred physical examination testing and diagnostic imaging choices in pre operative planning and patient selection state of the art step by step description of the procedures detailed surgical equipment lists to perform each procedure clear and precise indications for surgery and the thoughtful rationale behind stated contraindications controversial indications post operative protocols and potential complications The written text is supported by numerous color images and a website with invaluable narrated video clips depicting disease specific arthroscopic techniques specific to the hip Features inside The Hip AANA Advanced Arthroscopic Surgical Techniques Narrated video accompanies all surgical techniques focusing on the stepwise approach to each operation Consistent organization throughout the book results in a bulleted and user friendly interface for a quick reference or prolonged study Top 5 Technical Pearls for each procedure to enhance outcomes and to avoid common pitfalls and complications High quality artwork and figures to complement clinical images Equipment and surgical technique checklists for quick reference prior to surgery Each expert contributor was chosen for his or her expertise for a specific topic related to The Hip so the reader benefits by the highest quality and treatment recommendations to provide state of the art care to his or her patient Some chapter topics include The Supine Approach to Hip Arthroscopy Use of Fluoroscopy in Hip Arthroscopy A Correlation with Three Dimensional Anatomy Treatment of the Iliopsoas Tendon Indications and Arthroscopic Approaches for Lengthening and Release Special Considerations for Revision Hip Arthroscopy Management of the Deficient Labrum Arthroscopic Labral Reconstruction Indications and Technique

Synopsis of Hip Surgery Shane J. Nho, Joshua D. Harris, Brett R. Levine, 2020-10-07 A reader friendly overview of the fundamentals in hip pathology and treatment presented by esteemed experts Synopsis of Hip Surgery by renowned hip specialists Shane Nho Joshua Harris Brett Levine and an impressive group of contributors provides a well rounded perspective on the surgical and nonsurgical management of common to rare hip conditions The generously illustrated clinical reference is both concise and comprehensive not only encompassing the full age continuum but also a wide array of hip disorders such as congenital and degenerative issues and problems associated with sports injuries The first seven chapters lay a solid foundation covering hip anatomy patient history physical examination radiographic imaging diagnostic tests biomechanics pathomechanics and implant biology Subsequent chapters detail prevalent conditions such as femoroacetabular impingement syndrome hip dysplasia soft tissue injuries and

osteoarthritis The text also covers less common diseases including synovial proliferative disorders primary and metastatic tumors and osteonecrosis Procedure specific chapters focus on primary and revision total hip arthroplasty and hip replacement surgery Key Features An outline format and bulleted text provide a quick easy reference for trainees and practitioners to consult prior to conferences at the office and in the operating room Over 200 color illustrations enhance understanding of impacted anatomy and procedures Fractures of the pelvis and hip including intracapsular extracapsular and acetabulum Discussion of pediatric conditions including Legg Calv Perthes disease slipped capital femoral epiphysis and hip fractures This concise resource is essential reading for orthopaedic surgery residents orthopaedic sports medicine and adult reconstruction fellows general orthopaedic surgeons and hip specialists [Hip Preservation Surgery in Children and Adolescents](#) Young-Jo Kim,Eduardo Novais,2020-07-27 The first comprehensive reference in this important area of pediatric orthopaedics Hip Preservation Surgery in Children and Adolescents provides authoritative highly illustrated guidance Dr Young Jo Kim and his team at Boston Children s Hospital are pioneers in the development of hip preservation techniques in children and adolescents with hip abnormalities and hip pain This outstanding author team provides the information you need to avoid both osteoarthritis and hip replacement in this vulnerable patient population **Peripheral Nerve Issues after Orthopedic Surgery** Christopher J. Dy,David M. Brogan,Eric R. Wagner,2021-11-15 Peripheral nerve issues are potential sequelae of orthopedic surgery even after cases in which technically excellent surgery was performed These injuries can impede the expected recovery of function after the primary surgery Given the manifold challenges associated with recovery of peripheral nerve injuries this book is designed as a multidisciplinary guide to the diagnosis prognostication and treatment of peripheral nerve issues after common orthopedic surgeries Beginning with an overview of nerve compression injury and regeneration as well as a presentation of the current diagnostic and imaging modalities for peripheral nerve injuries this unique text is organized by anatomic region and by type of procedure performed Topics covered include shoulder and elbow arthroplasty and arthroscopy fractures of the hand and wrist hip preservation surgery total knee replacement open surgery of the foot and ankle lumbosacral myeloradiculopathy and more Each chapter is authored by both a subspecialty surgeon who routinely performs the surgeries described and a subspecialized hand peripheral nerve surgeon with experience in evaluating and treating nerve issues after that particular injury Emphasis is placed on multidisciplinary team approaches patient counseling and technical aspects of surgical treatment Generously illustrated and written by experts in the field Peripheral Nerve Issues after Orthopedic Surgery is a truly interdisciplinary resource for orthopedic plastic hand and trauma surgeons physiatrists trainees and all professionals evaluating and managing postoperative peripheral nerve issues **The Adult Hip** John Clohisy,Paul Beaulé,Craig DellaValle,John J. Callaghan,Aaron G. Rosenberg,Harry E. Rubash,2014-07-07 There is a rising interest in trying to preserve hips especially in younger patients rather than replacing them Hips are preserved by providing the patient with a new area of articular

cartilage that prevents bone from rubbing on bone This book by the leaders in the field will comprehensively cover both the basic science and operative techniques necessary to understand and master the clinical skills necessary for hip preservation Key Features Authors are the inventors of these techniques First comprehensive coverage of hip preservation surgery This is a growing area of orthopedics Covers anatomy pathology biomechanics and treatment **Posterior Hip Disorders** Hal D.

Martin, Juan Gómez-Hoyos, 2018-09-05 This unique and comprehensive text discusses the main causes of posterior hip pathology and recent advances in evaluation and treatment of those conditions including posterior hip pain caused by discogenic intrapelvic and extrapelvic disorders Opening with description of the specific anatomy and biomechanics of the posterior hip and the etiology of hip disease the next few chapters superbly discuss and illustrate the clinical psychological and radiological assessment of the patient Analysis with differential diagnosis of various causes of posterior hip pain including nerve entrapment and impingement is then presented in detail followed by discussion of the essentials of the lumbopelvic complex as a source of pain Later chapters cover vascular claudication as a cause of posterior hip pain how to evaluate and manage the perioperative scenario and physical therapy evaluation and treatment Presenting the latest in examination diagnostic tools and surgical and therapeutic techniques from around the world Posterior Hip Disorders is a solid resource for current and future generations of orthopedic surgeons radiologists physiatrists spine surgeons sports medicine specialists rheumatologists primary care physicians and physical therapists Imaging of the Hip & Bony Pelvis

Mark Davies, Rajesh Botchu, Karthikeyan. P. Iyengar, 2024-11-29 This volume provides an up to date and comprehensive review of imaging of the hip In the first part of the book the various techniques employed when imaging the hip are discussed in detail Individual chapters are devoted to radiography computed tomography ultrasound and MRI The second part then documents the application of these techniques to the diverse application and diseases encountered in the hip Among the many topics addressed are congenital and developmental abnormalities trauma metabolic bone disease infection arthritis and tumours Each chapter is written by an acknowledged expert in the field and a wealth of illustrative material is included This book will be of great value to radiologists orthopedic surgeons and other clinicians with an interest in the hip pathology

Operative Hip Arthroscopy J.W. Thomas Byrd, 2012-09-22 Building upon the impeccable reputation of its earlier editions Operative Hip Arthroscopy Third Edition has been entirely reconceived rewritten revised and updated to address current issues and developments in hip arthroscopy This edition includes 18 new chapters that discuss issues like loose bodies labral management chondroplasty and microfracture lesions of the acetabular fossa synovial disease iliopsoas release iliotibial band release preitrochanteric space and capsulorrhaphy among other topics Every chapter includes vivid color photographs and illustrations to supplement accessible engaging text Dr J W Thomas Byrd a pioneer in the field has once again assembled a group of distinguished international contributors whose chapters constitute one of the most complete and comprehensive books on the subject Surgery of the Hip E-Book Daniel J. Berry, Jay Lieberman, 2019-09-24 Offering authoritative

comprehensive coverage of hip surgery the 2nd Edition of *Surgery of the Hip* is the definitive guide to hip replacement other open and arthroscopic surgical procedures and surgical and nonsurgical management of the hip across the lifespan Modeled after Insall Scott *Surgery of the Knee* it keeps you fully up to date with the latest research techniques tools and implants enabling you to offer both adults and children the best possible outcomes Detailed guidance from expert surgeons assists you with your toughest clinical challenges including total hip arthroplasty pediatric hip surgery trauma and hip tumor surgery Discusses new topics such as direct anterior approach for total hip arthroplasty hip pain in the young adult and hip preservation surgery Contains new coverage of minimally invasive procedures bearing surface selection management of complications associated with metal and metal bearing surfaces management of bone loss associated with revision THA and more Provides expert personal advice in Author's Preferred Technique sections Helps you make optimal use of the latest imaging techniques surgical procedures equipment and implants available Covers tumors of the hip hip instability and displacement in infants and young children traumatic injuries degenerative joint disorders and rehabilitation considerations all from both a basic science and practical clinical perspective

*Musculoskeletal Sports and Spine Disorders* Stuart B. Kahn, Rachel Yinfei Xu, 2018-02-08 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

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