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Now in a revised and expanded second edition, this practical text utilizes the most current evidence and knowledge of articular cartilage as the basis for clinical interventions for cartilage repair and restoration, combining an overview of clinical research and methodologies with clinical cases to help guide the orthopedic treatment and care of patients presenting with cartilage issues.

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Publications | Knee Restoration Center of Indiana

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Dr. Andreas Gomoll is double board certified in orthopedic surgery and sports medicine. He is an Associate Professor of Orthopedic Surgery, a Fellow of the American Academy of Orthopaedic Surgeons, the American Orthopaedic Society for Sports Medicine, and the International Cartilage Repair Society.

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Attempting to bridge the gap between the science and art of cartilage restoration, Cartilage Restoration: Practical Clinical Applications combines an overview of clinical research and methodologies with clinical cases to help guide the orthopedic treatment and care of patients presenting with cartilage issues. With chapters written by internationally-renowned orthopedic surgeons, topics include an overview of current surgical options, debridement and marrow stimulation, autograft plug ...

Cartilage Restoration | SpringerLink

Crema MD, Roemer FW, Marra MD, Burstein D, Gold GE, Eckstein F, Baum T, Mosher TJ, Carrino JA, Guermazi A. Articular cartilage in the knee: current MR imaging techniques and applications in clinical practice and research. Radiographics. 2011;31(1):37–61. PubMed CrossRef Google Scholar

Articular Cartilage: Structure and Restoration | SpringerLink

Co-Editor of "Cartilage Restoration: Practical Clinical Applications" Member, International Cartilage Regeneration Society Design Surgeon and Clinical Researcher "Caribbean Healthcare Partner's high ethical standards toward a vulnerable patient population, a world-class assembly of scientific and medical expertise and superb business ...

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Clinical outcomes assessment for articular cartilage restoration. Mithoefer K(1), Acuna M. Author information: (1)Department of Orthopedics and Sports Medicine, Harvard Vanguard Medical Associates, Chestnut Hill, Massachusetts 02467, USA. kmithoefer@partners.org

Clinical outcomes assessment for articular cartilage ...

Clinical Application of the Basic Science of Articular Cartilage Pathology and Treatment J Knee Surg. 2020 Nov;33(11):1056-1068. doi: 10.1055/s-0040-1712944. ... or well-designed cohort-based clinical trials with respect to cartilage repair and restoration surgeries, such that there is a gap in knowledge that must be addressed to determine ...

Clinical Application of the Basic Science of Articular ...

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In: Cartilage Restoration, Practical Clinical Applications. Eds. Farr J and Gomoll AH. Springer New York, 2014, pp 223-249. Pöllänen R, Tikkanen AM, Lammi MJ, Lappalainen R. The effect of loading and material on the biomechanical properties and vitality of bovine cartilage in vitro. J Appl Biomater Biomech. 2011 9(1):47-53.

Publications, Articles, & Reports | Active Implants

The advent of a flexible catheter system to spray liquid nitrogen through a scope broadens the clinical application of cryotherapy to other fields. SCT has shown success in treating Barrett's oesophagus and early oesophageal cancer [1 , 7] and may be safely used in patients on high levels of oxygen without the risk of airway fire.

Spray cryotherapy is effective for bronchoscopic ...

Cartilage restoration surgery – A surgical procedure intended to stimulate production and promote growth of healthy cartilage. Patella instability surgery – A surgical procedure used to realign and tighten tendons to keep the kneecap on track, or to release tissues that pull the kneecap off track.

Now in a revised and expanded second edition, this practical text utilizes the most current evidence and knowledge of articular cartilage as the basis for clinical interventions for cartilage repair and restoration, combining an overview of clinical research and methodologies with clinical cases to help guide the orthopedic treatment and care of patients presenting with cartilage issues. Carefully updated chapters discuss the state-of-the-art in cartilage anatomy, defects and imaging, current tibiofemoral and patellofemoral surgical options, debridement and marrow stimulation, osteochondral autografts and allografts, osteotomies, cell therapy, and meniscal transplantation. New chapters explore new surgical treatment strategies and revision for failed cartilage repair, case vignettes presenting real-life treatment decisions and outcomes, and rehabilitation protocols following cartilage repair. Written and edited by experts in the field and bringing the most recent literature and research to bear, Cartilage Restoration remains a valuable resource on joint preservation for orthopedic surgeons, residents, and fellows, sports medicine specialists and rheumatologists.

This invaluable resource discusses clinical applications with effects and side-effects of applications of stem cells in bone and cartilage regeneration. Each chapter is contributed by a pre-eminent scientist in the field and covers such topics as skeletal regeneration by mesenchymal stem cells, clinical improvement of mesenchymal stem cell injection in injured cartilage and osteoarthritis, Good manufacturing practice (GMP), minimal critera of stem cells for clinical applications, future directions of the discussed therapies and much more. Bone & Cartilage Regeneration and the other books in the Stem Cells in Clinical Applications series will be invaluable to scientists, researchers, advanced students and clinicians working in stem cells, regenerative medicine or tissue engineering.

Articular Cartilage Injury of the Knee is a comprehensive reference that combines the basic scientific knowledge of articular cartilage as it relates to patient health and disease with patient-focused diagnosis and treatment options. This book emphasizes the importance of bridging the divide between basic science and clinical applications in order to select the best possible treatment when injuries occur. Key Features: Provides clinically-relevant information on each topic that can easily be applied in practice Showcases the latest techniques in transplantation and scaffolds for cartilage repair Includes a focused chapter on assessment outcomes after cartilage repair of the knee Written and edited by leading orthopedic surgeons and basic science experts who represent the most current philosophy of effective management of articular cartilage injury of the knee Orthopedic surgeons specializing in the lower extremity will find this book to be an excellent resource that they can consult to guide them in the treatment of patients with articular cartilage injury of the knee.

This book employs a wealth of high-quality illustrations to provide the reader with a detailed understanding of the anatomy and the histology of the cartilage, the etiology and the classification of the cartilage lesions, and the numerous techniques employed for cartilage repair. Detailed attention is devoted to healthy cartilage, to each stage in the degenerative process, and to the response of the cartilage to the treatment. Imaging of the damaged and the repaired cartilage, as well as the information on the biomechanics are provided in great detail. The chapters on the techniques cover a wide range of approaches: marrow stimulation techniques, osteochondral cylinder transfer techniques, first, second and third generation autologous chondrocyte implantation techniques, allografts, cell-based therapies, orthobiologic approaches, and the role of 3D printing. The chapters closes with a consideration of the success of rehabilitation devices and the long-term results of cartilage repair.The book will be invaluable for all general orthopaedic and arthroscopic surgeons seeking a deeper knowledge of cartilage science and will help to dispel the confusion that still surrounds the reparative treatment. The authors are recognized experts in the fields of cartilage histology, assessment, classification, and repair.

Comprised of clinical cases demonstrating strategies for both common and complex knee preservation, this concise, practical casebook will provide orthopedic surgeons with the best real-world strategies to properly manage the many kinds of knee injuries and disorders they may encounter. The opening section presents the knee joint as a unique structure, reviewing the anatomy and function of articular cartilage and the meniscus, the effects of joint malalignment, the role of the synovium, and how joint failure is defined. The next two sections are comprised of clinical cases with a unique presentation, followed by a description of the diagnosis, assessment and management techniques used to treat it, as well as the case outcome, and clinical pearls and pitfalls. Cases included illustrate small and large cartilage defects, osteochondritis dessicans, chondral defects and lesions, meniscal allograft transplantation, and tibial and tibiofemoral cartilage defects, among others. The final section examines the current evidence for the treatment of articular cartilage lesions and emerging techniques in knee joint preservation and cartilage restoration. Pragmatic and reader-friendly, Joint Preservation of the Knee: A Clinical Casebook is an excellent resource for orthopedic surgeons and sports medicine specialists treating common and complex injuries of the knee.

This book introduces the exciting field of orthobiology, which will usher in a new array of therapeutic approaches that stimulate the body's natural resources to regenerate musculoskeletal tissues damaged by trauma or disease. The book addresses a range of key topics and discusses emerging approaches that promise to offer effective alternatives to traditional treatments for injuries to bone, cartilage, muscles, ligaments, and tendons. It explains in detail how a variety of innovative products, including biomaterials, growth factors, and autogenous cells, together provide the basis for the regeneration of these musculoskeletal structures and how recent scientific progress has created unique opportunities to address pathological situations that until recently have been treated with unsatisfactory results. The authors are experts from across the world who come together to provide a truly global overview. The book is published in collaboration with ISAKOS. It will be invaluable for all with an interest in this area of medicine, which has already attained huge popularity in Orthopaedics and Sports Medicine and has also attracted the attention of the lay public.

Master the PTA's role in orthopedic care — from the examination to treatment planning and interventions! Fundamental Orthopedic Management for the Physical Therapist Assistant, 5th Edition helps you understand and apply the principles of orthopedic science to clinical practice. First you will learn the basics of assessing flexibility, strength, endurance, and balance, and then you'll become a more valuable PTA by learning the essentials of tissue healing, gait and movement, kinesiology, and the management of orthopedic patients by region and condition. This edition reflects the latest, evidence-based practice and adds updates to the Evolve website. Written by clinician and educator Robert Manske, along with a team of expert contributors, this book describes how to work effectively with a supervising physical therapist! Comprehensive coverage addresses not only core concepts related to orthopedic care, but also includes biomechanics, pharmacology, imaging, in-depth reviews of the types of tissue healing, and the PTA's role in physical assessment and interventions. More than 600 illustrations and 75 summary tables reinforce orthopedic concepts and procedures. A focus on critical thinking and application prepares you for the treatment room and for the clinical practicum portions of your PTA program. Important Concepts highlight useful tips to remember in patient practice. Key terms and learning objectives begin each chapter, serving as checkpoints for understanding and helping you study effectively for examinations. Review questions at the end of each chapter prepare you for the kind of critical thinking you will be required to do in practice. Glossaries in each chapter make it easy to find definitions of key terminology. Useful appendices provide a quick reference to information such as commonly used medications, fracture eponyms, and reference ranges for lab tests. NEW! Updated content and references are added throughout the book to reflect changes in practice patterns. NEW! Expanded full-color illustrations add clarity to anatomy and procedural drawings and make it easier to learn important concepts NEW! Updated chapter summaries highlight essential, need-to-know information. NEW! Updated educator and student resources on the Evolve website provide tools to make teaching and learning easier.

This book presents the evidence related to the use of injectable biologics to provide faster and better healing for musculoskeletal lesions and conditions. The authors discuss approaches, such as blood derivatives and cell concentrates, applied to lesions of muscles, ligaments, tendons, bones, meniscus and cartilage, as well as osteoarthritis. Chapters are written by some of the most influential opinion leaders in the field, with up-to-date review of the current literature; where the authors explore both the potential and the limitations of these minimally invasive and promising treatments. The first section is devoted to the formulations and rationale for the use of injectable orthobiologics, while the second section reviews current treatment methods applied to specific joints and pathologies – ranging from tendinopathies through non-unions to articular degenerative processes – as well as the results of these treatment approaches. The third section explores future perspectives, such as pluripotent stem cells, gene therapy, and the stimulation of intrinsic stromal cell niches. Appealing to a broad readership, this book will be of interest to both laboratory research scientists and clinicians, including orthopedists, sports physicians, physiatrists, and regenerative medicine experts.

Indispensable for both surgeons and sports medicine physicians, DeLee, Drez, & Miller's Orthopaedic Sports Medicine: Principles and Practice, 5th Edition, remains your go-to reference for all surgical, medical, rehabilitation and injury prevention aspects related to athletic injuries and chronic conditions. Authored by Mark D. Miller, MD and Stephen R. Thompson, MD, this 2-volume core resource provides detailed, up-to-date coverage of medical disorders that routinely interfere with athletic performance and return to play, providing the clinically focused information you need when managing athletes at any level. Provides a unique balance of every relevant surgical technique along with extensive guidance on nonsurgical issues—making it an ideal reference for surgeons, sports medicine physicians, physical therapists, athletic trainers, and others who provide care to athletes. Offers expanded coverage of revision surgery, including revision ACL and revision rotator cuff surgery. Features additional coverage of cartilage restoration procedures and meniscal transplantation. Provides significant content on rehabilitation after injury, along with injury prevention protocols. Retains key features such as coverage of both pediatric and aging athletes; a streamlined organization for quick reference; in-depth coverage of arthroscopic techniques; extensive references; levels of evidence at the end of each chapter; and "Author's Preferred Technique" sections.