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Application. New York, NY: Springer;
2012. New York, NY: Springer; 2012.
Engelhart L, Nelson L, Lewis S, Mordin
M, Demuro-Mercon C, Uddin S, McLeod

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L, Cole B, and Farr J. Validation of the Knee Injury and Osteoarthritis Outcome Score subscales for patients with articular cartilage lesions of the knee.

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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

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Surgeons, the American Orthopaedic Society for Sports Medicine, and the International Cartilage Repair Society.

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Crema MD, Roemer FW, Marra MD,
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Articular cartilage in the knee: current MR imaging techniques and applications in clinical practice and research.

Radiographics. 2011;31(1):37-61.

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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

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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

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Associates, Chestnut Hill, Massachusetts
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Clinical Application of the Basic Science
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Treatment J Knee Surg. 2020

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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 ...

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clinical outcomes following cartilage restoration procedures are highly dependent on addressing

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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.

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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.

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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

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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

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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 book employs a wealth of high-quality illustrations to provide the reader

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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

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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

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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

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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.

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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

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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

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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.

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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

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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,

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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,

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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

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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

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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.

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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,

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Written by noted experts in orthopaedic

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This book focuses on cartilage defects and new mesenchymal stem cell-based treatments for their repair and regeneration. Early chapters provide a review of current etiological findings and repair methods of cartilage defects. The

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next chapters discuss fundamental concepts and features of MSCs, including their proliferation, differentiation, migration and immunomodulatory effects. The discussion also includes clinical applications of MSCs in cartilage tissues, especially with regards to various animal models, biomaterials and transferring

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techniques. Cartilage Regeneration focuses on the biology of MSCs and their possible applications in cartilage reconstruction, with the goal of bringing new insights into regenerative medicine. It will be essential reading for researchers and clinicians in stem cells, regenerative medicine, biomedical engineering and

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The thoroughly revised, updated Seventh

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cover casting, remodeling and what is unique about children's fractures; principles of physical examination of children with fractures; and treacherous children's fractures. A companion website contains the fully searchable text, an image bank, and videos of the ten most difficult procedures.

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