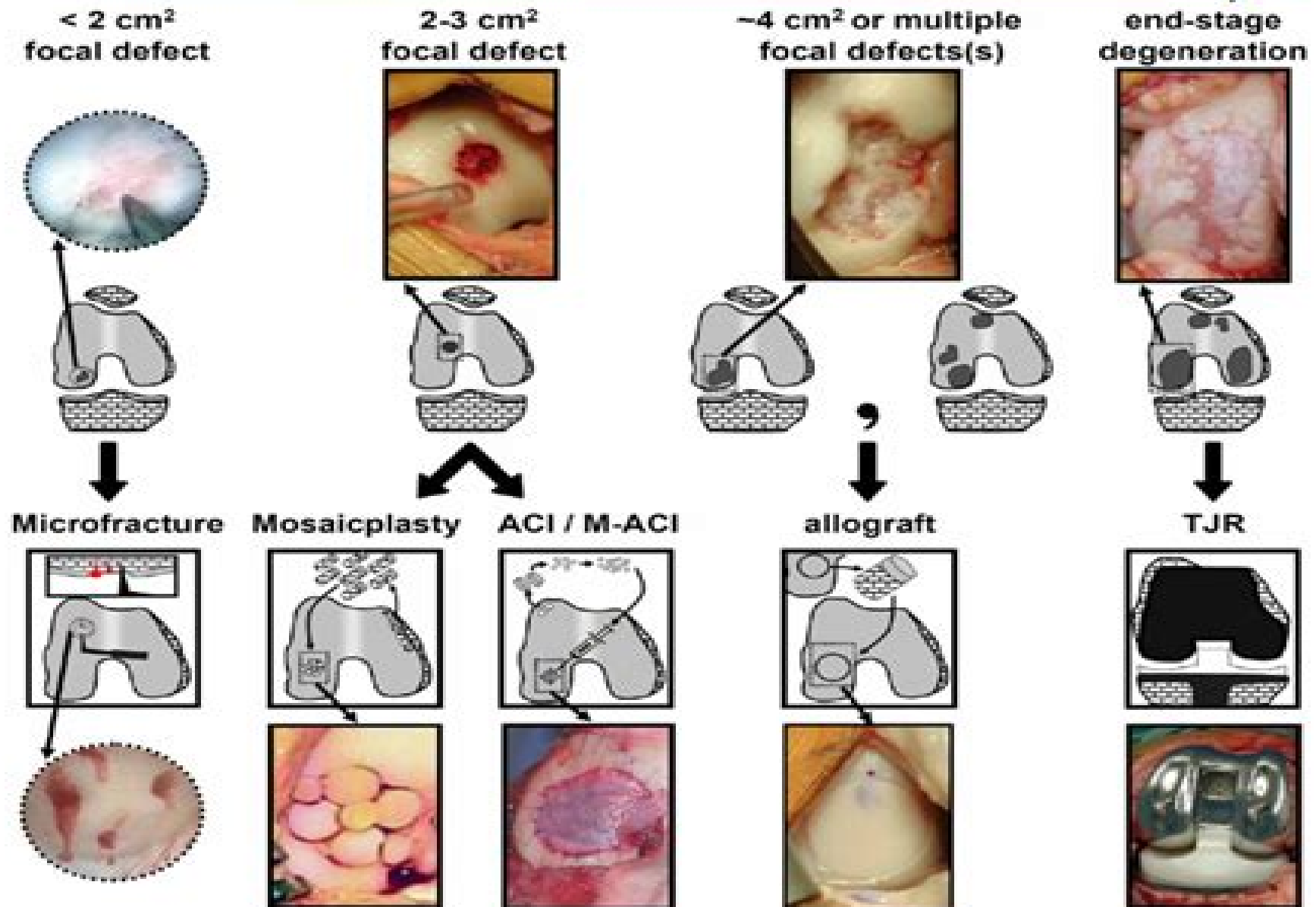


Current Treatment Paradigms for Articular Cartilage Degeneration

Defect Size and Severity



Rts 77 Current Development In Cartilage Transplantation

**Kyriacos A. Athanasiou, Eric M.
Darling, Jerry C. Hu**



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Cumulated Index Medicus, 1999 **People of Today**, 2002 **Science Citation Index**, 1992 Vols for 1964 have guides and journal lists **Current Developments in Autologous Chondrocyte Transplantation** George Bentley, 2002 This manual based on conference proceedings discusses current developments in cartilage transplantation **Developing Insights in Cartilage Repair** Pieter J. Emans, Lars Peterson, 2013-10-16 This comprehensive book discusses cartilage repair and all its aspects These aspects vary from basic insights in cartilage biology and regeneration via MRI to results of existing cartilage repair techniques and upcoming novel approaches Fundamental cartilage biology is the topic covered within the first chapters of the book These chapters not only provide an insight in healthy damaged and regenerative cartilage but also describe developments in gene therapy and methods to enhance chondrogenesis of stemcells and prevent hypertrophic differentiation There is a huge progress in the possibilities of MR imaging of both healthy damaged and regenerative cartilage These developments not only enable better monitoring of cartilage repair but may also unravel the pathophysiology of the development of cartilage defects Different cartilage repair techniques e g allografts autologous chondrocytes transplantation ACT microfracture there technical aspects e g developments towards an total arthroscopic approach pitfalls and outcomes are reported in the following chapters In these chapters factors important for the results of cartilage repair such as meniscal repair patient factors are described Finally an overview of novel cartilage repair techniques such as minced cartilage denovo cartilage and more areas are discussed in this comprehensive addition to the literature *Cartilage Surgery and Future Perspectives* Christian Hendrich, Ulrich Nöth, Jochen Eulert, 2012-12-06 Tissue engineering as a technology and as a therapeutic has captured worldwide attention and commitment because it has such potential in the care of humanity Because we are not as yet able to craft robust three dimensional vascular and ductal structures to support the development of complex parenchymal organs the initial focus of the field has been on thin tissues that can be nourished by diffusion alone The best example of this class is cartilage Thought by some to be a relatively simple tissue in the early days of tissue engineering deep study of this tissue has shown it to manifest great complexity Yearsof experimental and clinical effort have begun to untangle the clues that will allow us to reproducibly characterize gener ate and clinically apply engineered cartilage with positive effects World wide researchers and clinicians are intently focused on this goal and it has come time to step back and make a good assessment of our progress *Articular Cartilage* Kyriacos A. Athanasiou, Eric M. Darling, Jerry C. Hu, Grayson D. DuRaine, A. Hari Reddi, 2013-03-21 Well known for their inability to heal articular cartilage injuries often degenerate inexorably to disastrous impairment Multitudes of treatments have been devised for this problem but no satisfactory long term solutions have been established Written by world class experts *Articular Cartilage* covers the latest research and advancements related to biology development pathology clinical applications and tissue engineering This book is useful for rheumatologists orthopaedic surgeons cartilage biologists and cartilage engineers as well as for professionals

working in the orthopaedic and other musculoskeletal industries This book also belongs in the library of primary care physicians gerontologists physical therapists kinesiologists and chiropractors Written at a level that allows accessibility to a wide audience it provides an interdisciplinary approach that encompasses the breadth and depth of basic science bioengineering translational science and detailed methodologic approaches The authors examine the major events and signaling molecules that lead to development of articular cartilage from precursor cells and the changes in cartilage as it matures and ages They focus on the epidemiology etiopathogenesis and therapeutic approaches for cartilage injury and the major arthritides that affect cartilage and the synovial joints such as osteoarthritis rheumatoid arthritis and gout They supply an up to date overview of the field of tissue engineering as applied to articular cartilage repair They examine a number of methods used to assess structure composition biology and biomechanical function Each chapter contains extensive references to enhance additional study The book s comprehensive focus on multiple aspects of articular cartilage sets it apart from other tissue engineering or developmental biology based books available It includes important discussions and perspectives on many of the remaining challenges and opportunities in the development and translation of new approaches for treating diseases of articular cartilage It also provides detailed working protocols for many of the methods used to study articular cartilage coverage of current treatment options and business and regulatory aspects of the development of cartilage products It provides a deeper understanding that will help with the development of new products and clinical applications

Articular Cartilage Tissue Engineering Kyriacos A. Athanasiou, Eric M. Darling, Jerry C. Hu, 2010 Cartilage injuries in children and adolescents are increasingly observed with roughly 20% of knee injuries in adolescents requiring surgery In the US alone costs of osteoarthritis OA are in excess of 65 billion per year both medical costs and lost wages Comorbidities are common with OA and are also costly to manage Articular cartilage s low friction and high capacity to bear load makes it critical in the movement of one bone against another and its lack of a sustained natural healing response has necessitated a plethora of therapies Tissue engineering is an emerging technology at the threshold of translation to clinical use Replacement cartilage can be constructed in the laboratory to recapitulate the functional requirements of native tissues This book outlines the biomechanical and biochemical characteristics of articular cartilage in both normal and pathological states through development and aging It also provides a historical perspective of past and current cartilage treatments and previous tissue engineering efforts Methods and standards for evaluating the function of engineered tissues are discussed and current cartilage products are presented with an analysis on the United States Food and Drug Administration regulatory pathways that products must follow to market This book was written to serve as a reference for researchers seeking to learn about articular cartilage for undergraduate and graduate level courses and as a compendium of articular cartilage tissue engineering design criteria Table of Contents Hyaline Articular Cartilage Cartilage Aging and Pathology In Vitro Bioreactors Future Directions *Cartilage Restoration* Jack Farr, Andreas H. Gomoll, 2018-12-19 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

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