Editorial

Welcome to the third issue of JCJP!

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As your new Editor-in-Chief, it is my honor to introduce this issue of the Journal of Joint Preservation and Cartilage Restoration (JCJP), the official journal of the International Cartilage Regeneration & Joint Preservation Society (ICRS). As many of our readers already know, this journal is an exciting new endeavor sponsored and supported by ICRS, and made possible through Elsevier. I am excited to work with our entire editorial team on our vision to expand upon the incredible foundation established by inaugural Editor-in-Chief, Dr. Lisa Fortier, and help build the journal’s reputation as a leading publication in joint preservation and cartilage regeneration. Given the open access nature of this journal, the ability for clinicians, researchers, and students to publish in a timely fashion in a peer-reviewed setting is seemingly unlimited. We anticipate that JCJP will have a global impact in the near term. The mission of JCJP aligns perfectly with the mission of ICRS – to advance science and education for the prevention and treatment of cartilage disease worldwide.

In this issue, we have several outstanding articles from thought leaders in joint preservation from around the globe. First, we have an article by ICRS past-president Professor Alberto Gobbi and colleagues entitled “A Review of Bone Marrow Lesions in the Arthritic Knee and Description of a Technique for Treatment.” In this article, the authors discuss the etiology and types of bone marrow lesions, as well as the biology and biomechanics of these lesions along with relevant anatomy. Treatment options for these difficult entities are also reviewed, including a description of the technique and benefits of a novel minimally invasive procedure to induce bone remodeling referred to as Osteo-Core-Plasty. Next, we have an article from the lab of ICRS past-president Dr. Lisa Fortier (and prior editor-in-chief) entitled “Bone marrow concentrate mesenchymal stromal cells do not correlate with nucleated cell count or colony forming units.” Point-of-care bone marrow aspirate concentrate has become a more frequently used biologic treatment for cartilage repair and osteoarthritis given its bioactive components. Measuring the concentration of mesenchymal stromal cells in bone marrow aspirate concentrate is difficult, yet critical for determining their specific influence on healing. This article describes a study in which the authors analyzed two proposed techniques, nucleated cell count and colony forming units, that more simply quantify MSC concentration as compared to advanced methods. Next, the role of adipose is discussed in an article led by Hannah Bradshew, entitled “The Essential Roles of Human Adipose Tissue: Metabolic, Thermoregulatory, Cellular, and Paracrine Effects.” In this article, the authors describe the various roles of human adipose tissue, including the important functions of adipose-derived mesenchymal stromal cells, which contain several biologic properties that exhibit paracrine and immunomodulatory functions, as well as the ability to differentiate into multiple lineages, including chondrogenic and osteogenic cell lines. This article discusses the anatomy, physiology, and various roles and properties of human adipose tissue to better understand this tissue before considering it as a cellular source. The next article in this issue is led by Dr. Nguyen Huu Chien and colleagues, entitled “The Need for a Standardized Whole Leg Radiograph Guideline: The Effects of Knee Flexion, Leg Rotation, and X-ray Beam Height.” There is a high risk of developing knee osteoarthritis in patients with lower limb malalignment, and accurate alignment measurements are crucial when patients are indicated for total knee arthroplasty or osteotomy. This article analyzes the effects of various factors on the accuracy of Hip-Knee-Ankle-Angle measurements and discusses guidelines for setup and patient positioning to obtain accurate and reproducible whole leg radiographs that minimize HKA measurement errors. Next, the article “How to Salvage the Delivery of a Wrong-Sided Meniscal Allograft: A Rare Case Series” co-authored by Dr. Jack Farr is presented. While rare, receiving a wrong-sided meniscal allograft during a meniscal transplant procedure is possible. While continuing with the procedure is dependent on many factors, this article describes a guide on how to address this problem as well as the surgical technique...
to complete the transplant utilizing the wrong-sided graft. Finally, the last article in this issue is a summary of the recent ICRS Virtual Convention, entitled “ICRS Virtual Convention 2021: Orthoregenerative Therapy: From Basic Science to Clinical Application,” by Dr. Simon Görtz and colleagues. This article highlights the conference proceedings from this recent virtual convention and identifies area for future research in the field of cartilage repair/restoration and joint preservation.

Overall, this issue of JCJP covers a wide spectrum of knee joint preservation topics. We encourage all of our readers to submit articles for consideration of publication in JCJP, including clinical studies, biomechanical studies, animal studies, basic science studies, translational research, systematic reviews and meta-analyses, as well as case reports and technique articles. We encourage articles focusing not only on the knee, but on other joints throughout the musculoskeletal system, including the upper and lower extremities, and spine. We look forward to reviewing your submissions, and hope you enjoy this issue.

Declaration of competing interest

The author declared no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

References