

# **New Articles from the Orthopaedic Journal of Sports Medicine!**

**July 2020 - Volume 8, Issue 7**

## **Higher Physiologic Platelet Counts in Whole Blood Are Not Associated With Improved ACL Cross-sectional Area or Signal Intensity 6 Months After Bridge-Enhanced ACL Repair**

Christina Freiburger, MS, Ata M. Kiapour, PhD, MMSc, Shanshan Liu, MS, MPH, The BEAR Trial Team, Rachael N. Henderson, BS, Samuel Barnett, MD, Nicholas J. Sant, BS, Benedikt L. Proffen, MD, Braden C. Fleming, PhD, Kirsten Ecklund, MD, Dennis E. Kramer, MD, Lyle J. Micheli, MD, Martha M. Murray, MD, Yi-Meng Yen, MD, PhD

## **Patient-Reported and Quantitative Outcomes of Anatomic Anterior Cruciate Ligament Reconstruction With Hamstring Tendon Autografts**

Theresa Diermeier, MD, Sean J. Meredith, MD, James J. Irrgang, PhD, Stefano Zaffagnini, MD, Ryosuke Kuroda, MD, Yuichi Hochino, MD, Kristian Samuelsson, MD, Clair Nicole Smith, MSc, Adam Popchak, PhD, Volker Musahl, MD, the PIVOT Study Group, Andrew Sheehan, MD, Jeremy M. Burnham, MD, Jayson Lian, BS, Clair Smith, PhD, Elmar Herbst, MD, Thomas Pfeiffer, MD, Paulo Araujo, MD, PhD, Alicia Oostdyk, MS, Daniel Guenther, MD, Bruno Ohashi, MD, Freddie H. Fu, MD, Kouki Nagamune, PhD, Masahiro Kurosaka, MD, PhD, Alberto Grassi, Giulio Maria Marcheggiani Muccioli, MD, Nicola Lopomo, PhD, Cecilia Signorelli, Federico Raggi, MD, Alexandra Horvath, MD, Eleonor Svantesson, MD, Eric Hamrin Senorski, PT, PhD, David Sundemo, MD, Haukur Bjoernsson, MD, PhD, Mattias Ahlden, MD, PhD, Neel Desai, MD, PhD, Jon Karlsson, MD

## **Evaluation of the Electromyographic Amplitude-to-Work Ratio in the Infraspinatus Muscle During External Shoulder Rotation Exercises: A Comparison of Concentric Isotonic and Isokinetic Exercises**

Jung-Ho Park, MD, PhD, Seok Won Chung, MD, PhD, Seoung-Joon Lee, MD, PhD, Jong-Won Lee, MD, Kyung-Soo Oh, MD, PhD

## **Do Patient Positioning and Portal Placement for Arthroscopic Subtalar Arthrodesis Matter?**

Alan G. Shamrock, MD, Annunziato Amendola, MD, Natalie A. Glass, PhD, Keith H. Shamrock, BS, Christopher C. Cychosz, MD, Christopher N. Carender, MD, Kyle R. Duchman, MD

## **Surgeon and Patient Upper Extremity Dominance Does Not Influence Clinical Outcomes After Total Shoulder Arthroplasty**

Daniel P. Berthold, MD, Lukas N. Muench, MD, Cameron Kia, MD, Connor G. Ziegler, MD, Samuel J. Laurencin, MD, PhD, Daniel Witmer, MD, Dale N. Reed, MD, Mark P. Cote, PT, DPT, Robert A. Arciero, MD, Augustus D. Mazzocca, MS, MD

## **Correlations and Reproducibility Between Radiographic and Radial Alpha Angles in the Evaluation of Cam Morphology**

Naomi Kobayashi, MD, PhD, Kosuke Sumi, Shota Higashihira, MD, PhD, Hyonmin Choe, MD, PhD, Taro Tezuka, MD, PhD, Takayuki Oishi, MD, PhD, Yohei Yukizawa, MD, PhD, Akira Morita, MD, Yutaka Inaba, MD, PhD

**Full-Thickness Gluteus Medius Tears With or Without Concomitant Hip Arthroscopy: Minimum 2-Year Outcomes Using an Open Approach and Contemporary Tendon Repair Techniques**

David R. Maldonado, MD, Shawn Annin, MD, Jeffery W. Chen, BA, Philip J. Rosinsky, MD, Jacob Shapira, MD, Ajay C. Lall, MD, MS, Benjamin G. Domb, MD

**Is There a Gender Gap in Outcomes After Hip Arthroscopy for Femoroacetabular Impingement? Assessment of Clinically Meaningful Improvements in a Prospective Cohort**

Sergio E. Flores, BS, Caitlin C. Chambers, MD, Kristina R. Borak, BS, Alan L. Zhang, MD

**Biomechanical Analysis of Plate Fixation Compared With Various Screw Configurations for Use in the Latarjet Procedure**

Rachel M. Frank, MD, Martina Roth, MSc, Coen Abel Wijdicks, PhD, Nicole Fischer, MSc, Alberto Costantini, MD, Giovanni Di Giacomo, MD, Anthony A. Romeo, MD

**Thrower's Exostosis of the Shoulder: A Systematic Review With a Novel Classification**

Michael T. Freehill, MD, Sandeep Mannava, MD, PhD, Laurence D. Higgins, MD, Alexandre Lädermann, MD, Austin V. Stone, MD, PhD

**Superior Labral Injuries in Elite Gymnasts: Symptoms, Pathology, and Outcomes After Surgical Repair**

Yasutaka Takeuchi, MD, Hiroyuki Sugaya, MD, Norimasa Takahashi, MD, Keisuke Matsuki, MD, Morihito Tokai, MD, Takeshi Morioka, MD, Yusuke Ueda, MD, Shota Hoshika, MD

**High-Grade Patellar Chondral Defects: Promising Results From Management With Osteochondral Autografts**

David Figueroa, MD, Rafael Calvo Rodriguez, MD, Rodrigo Donoso, MD, MS, Jaime Espinoza, MD, Alex Vaisman, MD, Claudio Yañez, MD

**Comparative Efficacy and Tolerability of Nonsurgical Therapies for the Treatment of Midportion Achilles Tendinopathy: A Systematic Review With Network Meta-analysis**

Hye Chang Rhim, MD, Min Seo Kim, MD, Seungil Choi, BS, Adam S. Tenforde, MD

**Sport-Related Concussion in Female Athletes: A Systematic Review**

Neil K. McGroarty, MD, Symone M. Brown, MPH, Mary K. Mulcahey, MD

**Radial Meniscal Tears Are Best Repaired by a Modified "Cross" Tie-Grip Suture Based on a Biomechanical Comparison of 4 Repair Techniques in a Porcine Model**

Yuta Nakanishi, MD, Yuichi Hoshino, MD, PhD, Kouki Nagamune, PhD, Tetsuya Yamamoto, MD, Kanto Nagai, MD, PhD, Daisuke Araki, MD, PhD, Noriyuki Kanzaki, MD, PhD, Takehiko Matsushita, MD, PhD, Ryosuke Kuroda, MD, PhD

**Linked Double-Row Equivalent Arthroscopic Rotator Cuff Repair Leads to Significantly Improved Patient Outcomes**

Atsushi Endo, MD, MPH, Paul Hoogervorst, MD, Conrad Safranek, BS, Kyle R. Sochacki, MD, Marc R. Safran, MD, Seth L. Sherman, MD, Joseph Donahue, MD

**Quantitative Evaluation of Functional Instability Due to Anterior Cruciate Ligament Deficiency**

Takayuki Matsuo, PT, PhD, Maki Koyanagi, PT, PhD, Ryo Okimoto, PT, Toshitaka Moriuchi, PT, Koji Ikeda, PT, PhD, Naruhiko Nakae, PT, PhD, Shigeto Nakagawa, MD, PhD, Konsei Shino, MD, PhD

**The Impact of COVID-19 on the Sports Medicine Fellowship Class of 2020**

Michael A. Perrone, MD, MPH, Keon Youssefzadeh, BS, Brian Serrano, DC, ATC, OPE-SC, CSCS, Orr Limpisvasti, MD, Michael Banffy, MD

**Intra-articular Administration of Tranexamic Acid Has No Effect in Reducing Intra-articular Hemarthrosis and Postoperative Pain After Primary ACL Reconstruction Using a Quadruple Hamstring Graft: A Randomized Controlled Trial**

Ja-Woon Lee, MD, Sang-Gyun Kim, MD, Su-Hyun Kim, MD, Hyun-Woo Cho, MD, Ji-Hoon Bae, MD, PhD

**Epidemiology of Anterior Cruciate Ligament Injury on Natural Grass Versus Artificial Turf in Soccer: 10-Year Data From the National Collegiate Athletic Association Injury Surveillance System**

Mark Howard, MD, Samantha Solaru, BS, Hyunwoo P. Kang, MD, Ioanna K. Bolia, MD, MS, PhD, George F.R. Hatch, MD, James E. Tibone, MD, Seth C. Gamradt, MD, Alexander E. Weber, MD

**Surgical Outcomes of Os Trigonum Syndrome in Dancers: A Case Series**

Keifer P. Walsh, MS, Elizabeth C. Durante, MD, Brad R. Moser, MD, J. Chris Coetzee, MD, Rebecca Stone McGaver, MS, ATC

**Clinical Outcomes After Anterior Cruciate Ligament Injury: Panther Symposium ACL Injury Clinical Outcomes Consensus Group**

Eleonor Svantesson, MD, Eric Hamrin Senorski, PT, PhD, Kate E. Webster, PhD, Jón Karlsson, MD, PhD, Theresa Diermeier, MD, Benjamin B. Rothrauff, MD, Sean J. Meredith, MD, Thomas Rauer, MD, James J. Irrgang, PT, PhD, FAPTA, Kurt P. Spindler, MD, C. Benjamin Ma, MD, Volker Musahl, MD, the Panther Symposium ACL Injury Clinical Outcomes Consensus Group, Freddie H. Fu, MD, Olufemi R. Ayeni, MD, PhD, FRCSC, Francesco Della Villa, MD, Stefano Della Villa, MD, Scott Dye, MD, Mario Ferretti, MD, PhD, Alan Getgood, MD, FRCS (Tr&Orth), DipSEM, Timo Järvelä, MD, PhD, Christopher C. Kaeding, MD, Ryosuke Kuroda, MD, PhD, Bryson Lesniak, MD, Robert G. Marx, MD, MSc, FRCSC, Gregory B. Maletis, MD, Leo Pinczewski, MD, Anil Ranawat, MD, Bruce Reider, MD, Romain Seil, MD, PhD, Carola van Eck, MD, PhD, Brian R. Wolf, MD, MS, Patrick Yung, MD, Stefano Zaffagnini, MD, Ming Hao Zheng, MD, PhD, FRCPATH

**Effect of Sex on Anterior Cruciate Ligament Injury–Related Biomechanics During the Cutting Maneuver in Preadolescent Athletes**

Milos Petrovic, PhD, Haraldur B. Sigurðsson, PhD, Hjalmar J. Sigurðsson, MSc, Thorarinn Sveinsson, PhD, Kristín Briem, PT, PhD

**Effect of Preoperative Frozen Shoulder on Clinical Outcomes After Arthroscopic Rotator Cuff Repair**

Jeung Yeol Jeong, MD, Seung Bo Shim, MD, Jin Ho Hong, MD, Wooyoung Im, MD, Sang Min Lee, CES, Jae Chul Yoo, MD

**Health Care Utilization and Costs in the Year Prior to Arthroscopic Rotator Cuff Repair**

Azeem Tariq Malik, MBBS, Mathangi Sridharan, BS, Julie Y. Bishop, MD, Safdar N. Khan, MD, Grant L. Jones, MD, Andrew S. Neviasser, MD, Gregory L. Cvetanovich, MD

**Biomechanical Comparison of Graft Preparation Techniques for All-Inside Anterior Cruciate Ligament Reconstruction**

Julia Bowes, MD, Nada Mohamed, Jonelle Jn Baptiste, MSc, Lindsey Westover, PhD, Catherine Hui, MD, FRCSC, Mark Sommerfeldt, MD, FRCSC, MPH, DipSportMed

**Prospective Analysis of Arthroscopic Hip Anatomic Labral Repair Utilizing Knotless Suture Anchor Technology: The Controlled-Tension Anatomic Technique at Minimum 2-Year Follow-up**

David R. Maldonado, MD, Sarah L. Chen, BA, Jeffery W. Chen, BA, Jacob Shapira, MD, Philip J. Rosinsky, MD, Shawn Annin, MD, Ajay C. Lall, MD, MS, Benjamin G. Domb, MD

**Effect of Trochlear Dysplasia on Commonly Used Radiographic Parameters to Assess Patellar Instability**

J. Lee Pace, MD, Chris Cheng, BS, Sheeba M. Joseph, MD, Matthew J. Solomito, PhD

**Does Anterior Cruciate Ligament Reconstruction Protect the Meniscus and Its Repair? A Systematic Review**

Jasmijn V. Korpershoek, MD, Tommy S. de Windt, MD, PhD, Lucienne A. Vonk, PhD, Aaron J. Krych, MD, Daniel B.F. Saris, MD, PhD

**An Injury Prevention Program for Professional Ballet: A Randomized Controlled Investigation**

Angelina M. Vera, MD, Bene D. Barrera, LAT, ATC, Leif E. Peterson, PhD, Thomas R. Yetter, BS, David Dong, BS, Domenica A. Delgado, MBA, Patrick C. McCulloch, MD, Kevin E. Varner, MD, Joshua D. Harris, MD

**Clinical Outcomes of Osteochondral Lesions of the Talus With Large Subchondral Cysts Treated With Osteotomy and Autologous Chondral Grafts: Minimum 2-Year Follow-up and Second-Look Evaluation**

Lu Bai, MD, Siyao Guan, MM, Sanbiao Liu, MM, Tian You, MD, Xiaoxiao Xie, MM, Peng Chen, MD, Wentao Zhang, MD

**Return to Play in Athletes After Thumb Ulnar Collateral Ligament Repair With Suture Tape Augmentation**

Daniel B. Gibbs, MD, Steven S. Shin, MD

**Surgical Treatment of Meniscal Extrusion: A Biomechanical Study on the Role of the Medial Meniscotibial Ligaments With Early Clinical Validation**

George A. Paletta, Jr, MD, MBA, David M. Crane, MD, John Konicek, BS, Marina Piepenbrink, MSc, Laurence D. Higgins, MD, MBA, John D. Milner, BA, Coen A. Wijdicks, PhD

**Preoperative Complete Patellofemoral Dislocation in Extension Predicts an Inferior Clinical Outcome After Medial Patellofemoral Ligament Reconstruction in Patients With Recurrent Patellar Dislocation**

ZhiJun Zhang, MD, GuanYang Song, MD, QianKun Ni, MD, Tong Zheng, MD, Yanwei Cao, MD, Zheng Feng, MD, Hui Zhang, MD, Hua Feng, MD

**Impact of Insurance and Practice Type on Access to Orthopaedic Sports Medicine**

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