

Arthroscopy

The Journal of Arthroscopic
and Related Surgery

Official Publication of the Arthroscopy Association of North America

Table of Contents: Volume 38 • Number 7 • July 2022

EDITORIAL

- 2111** Internet and Social Media Contribute to Medical Research Journal Growth
Jefferson C. Brand, Michael J. Rossi, and James H. Lubowitz

INFOGRAPHIC

- 2115** Surgical Treatment of Gluteus Medius Tears
Morgan W. Rice, Robert B. Browning, and Shane J. Nho

ORIGINAL ARTICLES

- 2118** Allogeneic Dermal Fibroblasts Improve Tendon-to-Bone Healing in a Rabbit Model of Chronic Rotator Cuff Tear Compared With Platelet-Rich Plasma
Sung-Min Rhee, Yun Hee Kim, Joo Hyun Park, Hyeon Jang Jeong, Jikhyon Han, Saewha Jeon, and Joo Han Oh
- 2129** Editorial Commentary: Allogenic Dermal Fibroblasts in Collagen Matrix Scaffold Enhance Rotator Cuff Repair in an Animal Model
Hari K. Ankem
- 2131** Rotator Cuff Delamination Is Associated With Increased Tendon Retraction and Higher Fatty Muscle Infiltration: A Comparative Study on Arthroscopy and Magnetic Resonance Imaging
Jakob E. Schanda, Martin Eigenschink, Brenda Laky, Andreas Schwinghammer, Ulrich Lanz, Leo Pauzenberger, and Philipp R. Heuberger
- 2142** Extracellular Vesicles Delivered by Injectable Collagen Promote Bone–Tendon Interface Healing and Prevent Fatty Degeneration of Rotator Cuff Muscle
Hyojune Kim, In Kyong Shim, Jae Hee Choi, Eui-Sup Lee, Yu Na Lee, In-Ho Jeon, and Kyoung Hwan Koh

On the Cover: Viewing is done through an anteromedial portal (AMP) using a 70-degree arthroscope after debridement using an arthroscopic shaver and radiofrequency electrode taking care not to damage the patellar tendon. Camera is directed inferiorly and lateral toward the intact patellar tendon (blue arrow). An anterolateral working portal (ALP) is used to excise the ossicle (red arrow) with an arthroscopic burr (orange arrow) after skeletonization of the ossicle. See the related article at www.arthroscopytechniques.org. Courtesy of Gregory R. McDonough, D.M.S., P.A.-C., and Michael J. Rossi, M.D., M.S.

- 2154** *Editorial Commentary: Stem Cell Exosomes Can Promote Healing and Muscle Function After Rotator Cuff Repair*
Michael Davies and Brian T. Feeley
- 2157** Clinical and Radiologic Outcomes of All-Arthroscopic Latarjet Procedure With Modified Suture Button Fixation: Excellent Bone Healing With a Low Complication Rate
Zhenxing Shao, Yuqing Zhao, Hao Luo, Yanfang Jiang, Qingfa Song, Xu Cheng, and Guoqing Cui
- 2166** Rotator Cuff Repair With Graft Augmentation Improves Function, Decreases Revisions, and Is Cost-Effective
Ryan Quigley, Nikhil Verma, Aghogho Evuvarherhe Jr., and Brian J. Cole
- 2175** *Editorial Commentary: Dermal Allografts Are Indicated for Repair of Irreparable Rotator Cuff Tears and for Revision Surgery, and May Be Cost-Effective for Primary Repair*
Thomas P. Knapp
- 2178** High Rate of Satisfaction and Return to Play at 5-Year Follow-Up After Arthroscopic Superior-Labrum Anterior-Posterior Repairs
Eoghan T. Hurley, Edward S. Mojica, Danielle H. Markus, Nathan A. Lorentz, Christopher A. Colasanti, Kirk A. Campbell, Michael J. Alaia, and Laith M. Jazrawi
- 2183** Earlier Treatment Yields Superior Outcomes in Competitive Athletes Undergoing Primary Hip Arthroscopy
Andrew E. Jimenez, Peter F. Monahan, Jade S. Owens, David R. Maldonado, Andrew J. Curley, and Benjamin G. Domb
- 2192** *Editorial Commentary: Earlier Hip Arthroscopy May Result in Improved Outcomes for Femoroacetabular Impingement Syndrome in Symptomatic Athletes: No Time Like the Present Could Mean Better Luck Next Year*
Christopher L. McCrum
- 2195** Younger Age, Capsular Repair, and Larger Preoperative Alpha Angles Are Associated With Earlier Achievement of Clinically Meaningful Improvement After Hip Arthroscopy for Femoroacetabular Impingement Syndrome
Vivian W. Ouyang, Benjamin R. Saks, David R. Maldonado, Andrew E. Jimenez, Hari K. Ankem, Payam W. Sabetian, Ajay C. Lall, and Benjamin G. Domb
- 2204** Duration of Care and Operative Time Are the Primary Drivers of Total Charges After Ambulatory Hip Arthroscopy: A Machine Learning Analysis
Yining Lu, Ophelie Lavoie-Gagne, Enrico M. Forlenza, Ayoosh Pareek, Kyle N. Kunze, Brian Forsythe, Bruce A. Levy, and Aaron J. Krych
- 2217** *Editorial Commentary: Machine Learning Can Indicate Hip Arthroscopy Procedures, Predict Postoperative Improvement, and Estimate Costs*
Jacob Shapira, Bezalel Peskin, and Doron Norman
- 2219** Arthroscopic Hip Capsular Reconstruction Using Iliotibial Band Allograft as a Salvage Option for Unrepairable Capsular Defects Demonstrates Good Survivorship and Improved Patient-Reported Outcomes
Joseph J. Ruzbarsky, Max N. Seiter, Spencer M. Comfort, Rui W. Soares, Karen K. Briggs, and Marc J. Philippon

- 2227** Self-Reported Cannabis Use Is Not Associated With Increased Opioid Use or Costs After Hip Arthroscopy
Jacob T. Wood, Senthil Sambandam, Dane K. Wukich, and Christopher L. McCrum
- 2232** Tibiofemoral Relationship 3 Weeks After Anatomic Triple-Bundle Anterior Cruciate Ligament Reconstruction With 10 N of Initial Tension Is Closer to Normal Knee Versus That With 20 N of Initial Tension
Yuta Tachibana, Tatsuo Mae, Ken Nakata, Tomohiko Matsuo, and Konsei Shino
- 2242** *Editorial Commentary:* For Single-Bundle Anterior Cruciate Ligament Reconstruction, Graft Fixation Should Be Performed at a Medium Tension in Full Extension: Multiple Bundle Reconstruction May Require a Different Strategy
Jonathan A. Stone and Ian Al'Khafaji
- 2246** Autologous Dedifferentiated Osteogenic Bone Marrow Mesenchymal Stem Cells Promote Bone Formation in a Rabbit Model of Anterior Cruciate Ligament Reconstruction Versus Bone Marrow Mesenchymal Stem Cells
Kai Tie, Jinghang Cai, Huasong Shi, Xufeng Li, Yangfan Shangguan, and Liaobin Chen
- 2255** Bone Marrow Aspirate Concentrate Augmentation May Accelerate Allograft Ligamentization in Anterior Cruciate Ligament Reconstruction: A Double-Blinded Randomized Controlled Trial
Brian Forsythe, Jorge Chahla, Avinaash Korrapati, Ophelie Lavoie-Gagne, Enrico Forlenza, Connor C. Diaz, Alexander Beletsky, Christine B. Chung, Won C. Bae, Bernard R. Bach, Brian Cole, Adam B. Yanke, and Nikhil N. Verma
- 2265** *Editorial Commentary:* Bone Marrow Aspirate Concentrate May Accelerate Anterior Cruciate Ligament Allograft Using Bone Patellar Tendon Bone Maturation on Magnetic Resonance Imaging, but Clinical Differences Have Not Been Demonstrated
Andrew J. Sheehan
- 2268** Modified Pulvertaft on Weave Technique Restores Full Active Knee Extension in Patients With Large Chronic Quadriceps Tendon Rupture: A Case Series
José Leonardo Rocha de Faria, Conrado Torres Laett, Ubiratã Faleiro Gavilão, Matheus de Barros Carvalho, Alan de Paula Mozella, Eduardo Branco de Sousa, and Victor Rodrigues Amaral Cossich
- 2278** Early Identification of Arthrofibrosis in Adolescents Following Anterior Cruciate Ligament Reconstruction Is Associated With the Need for Subsequent Surgery: A Matched Case—Control Study
Soroush Baghdadi, Theodore J. Ganley, Lawrence Wells, and J. Todd R. Lawrence

META-ANALYSIS

- 2287** Radiofrequency Ablation in Cooled Monopolar or Conventional Bipolar Modality Yields More Beneficial Short-Term Clinical Outcomes Versus Other Treatments for Knee Osteoarthritis: A Systematic Review and Network Meta-Analysis of Randomized Controlled Trials
Limin Wu, Yifan Li, Haibo Si, Yi Zeng, Mingyang Li, Yuan Liu, and Bin Shen

- 2303** *Editorial Commentary: Radiofrequency Ablation for Patients With Osteoarthritis of the Knee Could Be Indicated for Patients Failing Conventional Nonoperative Treatment and Wishing to Avoid Total Knee Arthroplasty*
Sheryl Lipnick

SYSTEMATIC REVIEWS

- 2307** Inconclusive and Contradictory Evidence for Outcomes After Hip Arthroscopy in Patients With Femoroacetabular Impingement and Osteoarthritis of Tönnis Grade 2 or Greater: A Systematic Review
Octavian Andronic, Leica Sarah Claydon-Mueller, Rachael Cubberley, Daniel Karczewski, Karadi Hari Sunil-Kumar, and Vikas Khanduja
- 2319** *Editorial Commentary: To Scope or Not to Scope a Patient With Tönnis Grade 2 Hip Osteoarthritis Remains Ambiguous*
Derek Ochiai
- 2321** Smaller Gap Formation With Suture Anchor Fixation Than Traditional Transpatellar Sutures in Patella and Quadriceps Tendon Rupture: A Systematic Review
James Randolph Onggo, Sina Babazadeh, and Vishal Pai
- 2331** Increased Posterior Tibial Slope and Meniscal Slope Could Be Risk Factors for Meniscal Injuries: A Systematic Review
Jin Jiang, Zhongcheng Liu, Xiuyuan Wang, Yayi Xia, and Meng Wu

LEVEL V EVIDENCE

- 2342** Graft Augmentation of Repairable Rotator Cuff Tears: An Algorithmic Approach Based on Healing Rates
Garrett R. Jackson, Asheesh Bedi, and Patrick J. Denard
- 2348** *Editorial Commentary: Rotator Cuff Repair: Graft Augmentation Provides Promising Clinical Outcomes*
Ryan Quigley, Joshua T. Kaiser, and Brian J. Cole
- 2350** Nonoperative and Operative Soft-Tissue and Cartilage Regeneration and Orthopaedic Biologics of the Foot and Ankle: An Orthoregeneration Network Foundation Review
Richard Danilkowicz, Christopher Murawski, Manuel Pelligrini, Markus Walther, Victor Valderrabano, Chayanin Anghon, and Samuel Adams

-
- 2359** **Announcements**