Table of Contents

1041  Play Ball!
Bruce Reider, MD

Articles

Elbow

1045  Biomechanical Performance of Baseball Pitchers With a History of Ulnar Collateral Ligament Reconstruction
Glenn S. Fleisig, PhD, Charles E. Leddon, PhD, Walter A. Laughlin, MS, Michael G. Ciccotti, MD, Bert R. Mandelbaum, MD, Kyle T. Aune, MPH, Rafael F. Escamilla, PhD, PT, Toran D. MacLeod, PhD, PT, and James R. Andrews, MD

1051  Pitching Performance and Longevity After Revision Ulnar Collateral Ligament Reconstruction in Major League Baseball Pitchers
Nathan E. Marshall, MD, Robert A. Keller, MD, Jonathan R. Lynch, MD, Michael J. Bey, PhD, and Vasilios Moutzouros, MD

1057  Arthroscopic Fragment Fixation Using Hydroxyapatite/Poly-L-Lactate Acid Thread Pins for Treating Elbow Osteochondritis Dissecans
Soshi Uchida, MD, PhD, Hajime Utsunomiya, MD, PhD, Tomonori Taketa, MD, PhD, Shinsuke Sakoda, MD, PhD, Akihisa Hatakeyama, MD, Toshitaka Nakamura, MD, PhD, and Akinori Sakai, MD, PhD

1066  The Epidemiology and Health Care Burden of Tennis Elbow: A Population-Based Study
Thomas L. Sanders Jr, MD, Hilal Maradit Kremers, MD, MSc, Andrew J. Bryan, MD, Jeanine E. Ransom, BS, Jay Smith, MD, and Bernard F. Morrey, MD

Shoulder

1072  Distal Biceps Brachii Tendon Repairs: A Single-Incision Technique Using a Cortical Button With Interference Screw Versus a Double-Incision Technique Using Suture Fixation Through Bone Tunnels
Edward Shields, MD, Joshua R. Olsen, MD, Richard B. Williams, MD, Lucien Rouse, MD, Michael Maloney, MD, and Ilya Voloshin, MD

1077  All-Arthroscopic Supraperiosteal Versus Open Subpectoral Tenodesis of the Long Head of the Biceps Brachii
Mufaddal Mustafa Gombera, MD, Cynthia A. Kahlenberg, BA, Rueben Nair, MD, Matthew D. Saltzman, MD, and Michael A. Terry, MD

The American Journal of Sports Medicine (ISSN 0363-5465) (J545), published monthly by SAGE Publications, 2455 Teller Road, Thousand Oaks, CA 91320, is a peer-reviewed journal indexed by Current Contents, Index Medicus, Cumulative Index to Nursing and Allied Health Literature, and SPORT Database, SPORT Discus, EMBASE/Excerpta Medica, and Scopus. The full text of this journal is also available through InfoTrac and Ovid. Registered with the Copyright Clearance Center. Periodicals postage paid at Thousand Oaks, California, and at additional mailing offices. POSTMASTER: Send address changes to The American Journal of Sports Medicine, c/o SAGE Publications, 2455 Teller Road, Thousand Oaks, CA 91320. Copyright © 2015 by American Orthopaedic Society for Sports Medicine. All rights reserved. No portion of the contents may be reproduced in any form without written permission from the publisher.

Disclaimer: Authors’ opinions expressed in the articles are not necessarily those of the Journal, its publisher, the Editor, or the Editorial Board. Acceptance of advertising does not imply endorsement by the Journal, its publisher, or the Editorial Board.

Subscription Information: All subscription inquiries, orders, back issues, claims, and renewals should be addressed to SAGE Publications, 2455 Teller Road, Thousand Oaks, CA 91320; telephone: (800) 818-SAGE (7243) and (805) 499-0721, fax: (805) 375-1700, e-mail: journals@sagepub.com; http://www.sagepublications.com. Subscription price: Institutions: $1,244; Individuals: $216. For all customers outside the Americas, please visit http://www.sagepub.co.uk/customercare.nav for information. Claims: Claims for undelivered copies must be made no later than six months following month of publication. The publisher will supply missing copies when losses have been sustained in transit and when the reserve stock will permit.

Member Information: Membership in the American Orthopaedic Society for Sports Medicine member inquiries, change of address, back issues, claims, and membership renewal requests should be addressed to American Orthopaedic Society for Sports Medicine, 9400 W. Higgins Road, Suite 300, Rosemont, IL 60018; telephone: (847) 292-2490; fax: (847) 292-4905; Web site: http://www.aossm.org; e-mail: membership@aossm.org. The publisher will supply missing copies when losses have been sustained in transit and when the reserve stock will permit at the request of the American Orthopaedic Society for Sports Medicine.

Copyright Permission: Permission requests to photocopy or otherwise reproduce copyrighted material owned by SAGE Publications should be submitted by accessing the Copyright Clearance Center’s Rightslink® service through the journal’s Web site at http://ajsm.sagepub.com. Permission may also be requested by contacting the Copyright Clearance Center via their Web site at http://www.copyright.com, or via e-mail at info@copyright.com.

Advertising and Reprints: Current advertising rates and specifications may be obtained by contacting Nicole Roach Louderback, SAGE Publications, 2455 Teller Road, Thousand Oaks, CA 91320; telephone: (949) 542-4087; fax: (215) 675-9576; e-mail: nicole.louderback@sagepub.com. To order reprints, please call (805) 410-7763 or e-mail reprint@sagepub.com.

Change of Address: Six weeks’ advance notice must be given when notifying of change of address. Please send old address label along with the new address to ensure proper identification. Please specify name of journal.

Submissions are accepted online only. Instructions for authors are available at www.ajsm.org. Editor and associate editor disclosures are at http://ajsm.sagepub.com/site/misc/Editor_Disclosures.xhtml.

Printed on acid-free paper
1084  Prevalence of and Risk Factors for Dislocation Arthropathy: Radiological Long-term Outcome of Arthroscopic Bankart Repair in 100 Shoulders at an Average 13-Year Follow-up
Johannes E. Plath, MD, Mohamed Aboalata, MD, Gernot Seppel, MD, Julia Juretzko, MD, Simone Waldt, MD, Stephan Vogt, MD, and Andreas B. Imhoff, MD

1091  Status of the Contralateral Rotator Cuff in Patients Undergoing Rotator Cuff Repair
Kyung-Han Ro, MD, Jong-Hoon Park, MD, Soon-Hyuck Lee, MD, Dong-Ik Song, MD, Ha-Joon Jeong, MD, and Woong-Kyo Jeong, MD

1099  Quantitative Assessment of the Latarjet Procedure for Large Glenoid Defects by Computed Tomography: A Coracoid Graft Can Sufficiently Restore the Glenoid Arc
Seong Cheol Moon, MD, Nam Su Cho, MD, and Yong Girl Rhee, MD

1108  Effect of Fatty Degeneration of the Infraspinatus on the Efficacy of Arthroscopic Patch Autograft Procedure for Large to Massive Rotator Cuff Tears
Daishuke Mori, MD, Noboru Funakoshi, MD, Furniharu Yamashita, MD, and Tsuguru Wakabayashi, MD

Head Injury and Concussion
1118  Mild Traumatic Brain Injury in Major and Minor League Baseball Players
Gary A. Green, MD, Keshia M. Pollack, PhD, MPH, John D’Angelo, BS, Mark S. Schickendanz, MD, Roger Caplinger, BS, Kathleen Weber, MD, MS, Alex Valadka, MD, Thomas W. McAllister, MD, Randall W. Dick, MS, Bert Mandelbaum, MD, and Frank C. Curriero, PhD

1127  Conussions Are Associated With Decreased Batting Performance Among Major League Baseball Players
Eri B. Wasserman, BA, Beau Abar, PhD, Manish N. Shah, MD, MPH, Daniel Wasserman, BA, and Jeffrey J. Bazarian, MD, MPH

Zachary Y. Kerr, PhD, MPH, Ross Hayden, MA, Thomas P. Homier, PhD, ATC, and Randy Cohen, ATC, DPT

Knee
1142  Fluoroscopic Determination of the Tibial Insertion of the Posterior Cruciate Ligament in the Sagittal Plane
Rodrigo Salim, MD, Matthew J. Salzler, MD, Mark A. Bergin, MD, Liying Zheng, PhD, Robert E. Carey, MS, Mauricio Kfuri Jr, MD, PhD, Xudong Zhang, PhD, and Christopher D. Hanmer, MD

1147  Tibial and Femoral Tunnel Changes After ACL Reconstruction: A Prospective 2-Year Longitudinal MRI Study
Alexander E. Weber, MD, Demetris Delos, MD, Hanna N. Oltean, MPH, Katherine Vadasdi, MD, John Cavanaugh, PT, MEd, ATC, SCS, Hollis G. Potter, MD, and Scott A. Rodeo, MD

1157  Effect of Posterolateral Bundle Graft Fixation Angles on Clinical Outcomes in Double-Bundle Anterior Cruciate Ligament Reconstruction: A Randomized Controlled Trial
Hideyuki Koga, MD, PhD, Takeshi Muneta, MD, PhD, Kazuyoshi Yagishita, MD, PhD, Toshifumi Watanabe, MD, PhD, Tomoyuki Mochizuki, MD, PhD, Masafumi Hori, MD, PhD, Tomomasa Nakamura, MD, PhD, Koji Otobe, MD, PhD, and Ichiro Sekiya, MD, PhD

1165  Length Change Behavior of Virtual Medial Patellofemoral Ligament Fibers During In Vivo Knee Flexion
Si Young Song, MD, Chae-Hyun Pang, MD, Chan Hyoek Kim, MD, Jeehyoung Kim, MD, Mi Lim Choi, MS, and Young-Jin Seo, MD

1172  Bone Marrow Edema in the Knee and Its Influence on Clinical Outcome After Matrix-Based Autologous Chondrocyte Implantation: Results After 3-Year Follow-up
Thomas R. Niethammer, MD, Siegfried Valentin, MD, Mehmet F. Gülecyüz, MD, Björn P. Rollbach, MD, Andreas Ficklscherer, MD, Matthias F. Pietschmann, MD, and Peter E. Müller, MD

1180  Placement of Double Tunnels in ACL Reconstruction Using Bony Landmarks Versus Existing Footprint Remnant: A Prospective Clinical Study With 2-Year Follow-up
Wei Lu, MD, PhD, Daping Wang, MD, PhD, Weiming Zhu, MD, Dingfu Li, MD, Kan Ouyang, MD, Liangquan Peng, MD, Wenzhe Feng, MD, and Hao Li, MD

1189  Relationship Between Knee Mechanics and Time Since Injury in ACL-Deficient Knees Without Signs of Osteoarthritis
Michael E. Zabala, PhD, Julien Favre, PhD, and Thomas P. Andriacchi, PhD

1197  Overexpression of TGF-β via rAAV-Mediated Gene Transfer Promotes the Healing of Human Meniscal Lesions Ex Vivo on Explanted Menisci
Magali Cucchiarini, PhD, Katharina Schmidt, MS, Janina Frisch, Dieter Kohn, MD, and Henning Madry, MD

1206  Placement of Double Tunnels in ACL Reconstruction Using Bony Landmarks Versus Existing Footprint Remnant: A Prospective Clinical Study With 2-Year Follow-up
Wei Lu, MD, PhD, Daping Wang, MD, PhD, Weiming Zhu, MD, Dingfu Li, MD, Kan Ouyang, MD, Liangquan Peng, MD, Wenzhe Feng, MD, and Hao Li, MD

1215  An Osteophyte in the Tibial Plateau Is a Risk Factor for Allograft Extrusion After Meniscus Allograft Transplantation
Byeongsam Jeon, MD, Jong-Min Kim, MD, PhD, Jong-Min Kim, MD, Chang-Rack Lee, MD, Kyung-Ah Kim, PhD, and Seong-II Bin, MD
Hip and Thigh

1222 Tensile Properties of the Human Acetabular Labrum and Hip Labral Reconstruction Grafts
Fernando P. Ferro, MD, Marc J. Phillippon, MD, Matthew T. Rasmussen, BS, Sean D. Smith, MSc, Robert F. LaPrade, MD, PhD, and Coen A. Wijdicks, PhD

1228 No Association Between Fibrosis on Magnetic Resonance Imaging at Return to Play and Hamstring Reinnjury Risk
Gustaaf Reurink, MD, Emad Almusa, MD, Gert Jan Goudswaard, MD, Johannes L. Tol, MD, PhD, Bruce Hamilton, MD, PhD, Maarten H. Moen, MD, PhD, Adam Weir, MD, PhD, Jan A.N. Verhaar, MD, Prof., and Mario Maas, MD, Prof.

Biomechanics

1235 Lateral Trunk Lean in Pitchers Affects Both Ball Velocity and Upper Extremity Joint Moments
Matthew J. Solomito, MS, Erin J. Garibay, MS, Jessica R. Woods, BSBE, Sylvia Õunpuu, MSc, and Carl W. Nissen, MD

Epidemiology and Injury Prevention

1241 Vitamin D Profile in National Football League Players
Joseph C. Maroon, MD, Christina M. Mathyseck, PhD, Jeffrey W. Bost, PA-C, Austin Amos, BA, Robert Winkelman, BA, Anthony P. Yates, MD, Mark A. Duca, MD, and John A. Norwig, Med, ATC

1246 Acute Injuries in Recreational and Competitive Surfers: Incidence, Severity, Location, Type, and Mechanism
James Furness, BPhthy, Wayne Hing, PhD, Joe Walsh, MSci, Allan Abbott, MPhysio, PhD, Jeremy M. Sheppard, PhD, and Mike Climstein, PhD

General Sports Trauma

1255 Publication Rates of Podium Versus Poster Presentations at the American Orthopaedic Society for Sports Medicine Meetings: 2006-2010
Stuart D. Kinsella, BA, Travis J. Menge, MD, Allen F. Anderson, MD, and Kurt P. Spindler, MD

Current Concepts

1260 Talking With Parents of High School Football Players About Chronic Traumatic Encephalopathy: A Concise Summary
Shawn Love, BS, and Gary S. Solomon, PhD

1265 Early Versus Delayed Passive Range of Motion Exercise for Arthroscopic Rotator Cuff Repair: A Meta-analysis of Randomized Controlled Trials
Ke-Yin Chang, MD, Chen-Yu Hung, MD, Der-Sheng Han, MD, PhD, Wen-Shiang Chen, MD, PhD, Tyng-Guey Wang, MD, and Kuo-Liong Chien, MD, PhD

1274 Surgical Treatment of Symptomatic Superior Labrum Anterior-Posterior Tears in Patients Older Than 40 Years: A Systematic Review
John Erickson, MD, Kyle Lavery, MD, James Monica, MD, Charles Gatt, MD, and Aman Dhawan, MD

1283 Society News and Announcements

1285 In Memoriam: Cyril B. Frank, MD (1949-2015)
Nick Mohtadi, MD, MSc, FRCSC

5-in-5 Podcast

In-Depth Podcast

Podcasts can also be accessed from the Table of Contents of the AJSM online issue.

NP08 Immediate Versus Delayed Meniscus Allograft Transplantation: Letter to the Editor: Response
Rachel M. Frank, MD, Adam Yanke, MD, Nikhil N. Verma, MD, Brian J. Cole, MD, MBA, Dong Jiang, MD, and Jia-kuo Yu, MD, PhD

NP11 Immediate Versus Delayed Meniscus Allograft Transplantation: Reply to Response: Later Reply
Rachel M. Frank, MD, Adam Yanke, MD, Nikhil N. Verma, MD, Brian J. Cole, MD, MBA, Dong Jiang, MD, and Jia-kuo Yu, MD, PhD

NP13 Corrigendum
An online CME course associated with this article is available for 1 AMA PRA Category 1 Credit™ at http://ajsm-cme.sagepub.com.