

JOURNAL OF SHOULDER AND ELBOW SURGERY

Copyright © 2019 by *Journal of Shoulder and Elbow Surgery* Board of Trustees

CONTENTS

VOLUME 28 • NUMBER 3 • MARCH

The Journal is included in the *Index Medicus* and in MEDLINE

SHOULDER

Subscapularis tenotomy versus lesser tuberosity osteotomy during total shoulder arthroplasty for primary osteoarthritis: a prospective, randomized controlled trial

William N. Levine, MD, Julianne Munoz, MD, Stephanie Hsu, MD, Ian R. Byram, MD, Louis U. Bigliani, MD, Christopher S. Ahmad, MD, Pinkawas Kongmalai, MD, and Jamal N. Shillingford, MD, New York, NY, Miami, FL, Atlanta, GA, and Franklin, TN, USA; and Nakhon Nayok, Thailand 407

Fragility of randomized clinical trials of treatment of clavicular fractures

Joseph J. Ruzbarsky, MD, Sariah Khormaei, MD, PhD, Ryan C. Rauck, MD, and Russell F. Warren, MD, New York, NY, USA 415

Glenohumeral rotation deficits in high school, college, and professional baseball pitchers with and without a medial ulnar collateral ligament injury

Roger Ostrander, MD, Rafael F. Escamilla, PhD, PT, CSCS, Ryan Hess, MD, Kevin Witte, DO, Luke Wilcox, DO, and James R. Andrews, MD, Gulf Breeze, FL and Sacramento, CA, USA 423

Efficacy of suprascapular nerve block compared with subacromial injection: a randomized controlled trial in patients with rotator cuff tears

Joseph A. Coory, MBBS, BSc(Anat), Adam F. Parr, MBBS, FRACS, Matthew P. Wilkinson, MBBS, FRACS, and Ashish Gupta, MBBS, MSC, FRACS, Douglas and Brisbane, QLD, Australia 430

Reverse shoulder arthroplasty for acute fractures in the elderly: is it worth reattaching the tuberosities?

Pascal Boileau, MD, Tjarc D. Alta, MD, PhD, Lauryl Decroocq, MD, François Sirveaux, MD, PhD, Philippe Clavert, MD, PhD, Luc Favard, MD, PhD, and Mikael Chelli, MD, Nice, Nancy, Illkirch-Graffenstaden, and Tours, France; and Hoofddorp, The Netherlands 437

Outcomes of arthroscopic rotator cuff repair with muscle advancement for massive rotator cuff tears

Shin Yokoya, MD, PhD, Yoshihiro Nakamura, MD, PhD, Yohei Harada, MD, PhD, Mitsuo Ochi, MD, PhD, and Nobuo Adachi, MD, PhD, Hiroshima, Japan 445

Continued on Page 4A

Publication information. *Journal of Shoulder and Elbow Surgery* (ISSN: 1058-2746) is published monthly by Elsevier Inc., 360 Park Avenue South, New York, NY 10010-1710. Business and Editorial Offices: 1600 John F. Kennedy Blvd., Suite 1800, Philadelphia, PA 19103-2899. Elsevier Customer Service Office: 3251 Riverport Lane, Maryland Heights, MO 63043. Periodicals postage paid at New York, NY and additional mailing offices.

USA POSTMASTER: Send address changes to Elsevier, Journal Returns, 1799 Highway 50 East, Linn, MO 65051.

CONTENTS

CONTINUED

Influence of preoperative opioid use on postoperative outcomes and opioid use after arthroscopic rotator cuff repair Brady T. Williams, BS, Nathan J. Redlich, BA, Dara J. Mickschl, PA-C, and Steven I. Grindel, MD, Milwaukee, WI, USA.....	453
Complications of biceps tenodesis based on location, fixation, and indication: a review of 1526 shoulders Christopher L. McCrum, MD, R. Kiran Alluri, MD, Michael Batech, DrPH, and Raffy Mirzayan, MD, Dallas, TX, Los Angeles, CA, Pasadena, CA, and Baldwin Park, CA, USA.....	461
Rotator cuff tear incidence association with critical shoulder angle and subacromial osteophytes Jung-Han Kim, MD, Young-Kyoung Min, MD, Heui-Chul Gwak, MD, Chang-Wan Kim, MD, Chang-Rack Lee, MD, and Seung-Jun Lee, MD, Busan and Yangsan, Republic of Korea	470
Anatomic locking plates for complex proximal humeral fractures: anatomic neck fractures versus surgical neck fractures Pan Cai, MBBS, Yang Yang, MBBS, Zhengfeng Xu, PhD, Zhe Wang, PhD, Xiaoxiao Zhou, PhD, and Tao Yang, PhD, Shanghai and Taizhou, China	476
Clinical effectiveness and safety of the extended humeral head arthroplasty for selected patients with rotator cuff tear arthropathy Frederick A. Matsen III, MD, Jeremy S. Somerson, MD, Jason E. Hsu, MD, Steven B. Lippitt, MD, Stacy M. Russ, BA, and Moni B. Neradilek, MS, Seattle, WA, Galveston, TX, and Akron, OH, USA.....	483
Value comparison of humeral component press-fit and cemented techniques in reverse shoulder arthroplasty Derek D. Berglund, MD, Dragomir Mijic, DO, Tsun yee Law, MD, Jennifer Kurowicki, MD, Samuel Rosas, MD, and Jonathan C. Levy, MD, Fort Lauderdale, FL, South Orange, NJ, and Winston-Salem, NC, USA.....	496
ELBOW	
First clinical experience with a new injectable recombinant human collagen scaffold combined with autologous platelet-rich plasma for the treatment of lateral epicondylar tendinopathy (tennis elbow) Uri Farkash, MD, Erez Avisar, MD, Ido Volk, MD, Omer Slevin, MD, Noam Shohat, MD, Madi El Haj, MD, Eran Dolev, MD, Eran Ashraf, MD, and Shai Luria, MD, Beer Sheva, Zrifin, Jerusalem, and Kfar-Saba, Israel	503
Timely recognition of total elbow and radial head arthroplasty adverse events: an analysis of reports to the US Food and Drug Administration Jeremy S. Somerson, MD, and Frederick A. Matsen III, MD, Galveston, TX and Seattle, WA, USA.....	510
Corrective osteotomy and in situ fusion for late-presenting nonunion of lateral condyle fractures of the humerus in adults Mohamed A. Ibrahim, PhD, and Mohamed S.A.M. Ismail, PhD, Cairo, Egypt.....	520
Outcome following excision of the radial head in children with open physes for impaired elbow motion Helmut Wegmann, MD, Simon Heider, MD, Michael Novak, MD, Matthias Sperl, MD, Tanja Kraus, MD, Georg Singer, MD, and Holger Till, MD, Graz, Austria.....	525

Continued on Page 6A

CONTENTS

CONTINUED

BASIC SCIENCE

Comparison of two different superior capsule reconstruction methods in the treatment of chronic irreparable rotator cuff tears: a biomechanical and histologic study in rabbit models

Fatih Yildiz, MD, Kerem Bilsel, MD, FEBOT, Anil Pulatkan, MD, Mehmet Kapicioglu, MD, Gokcer Uzer, MD, Tolga Cetindamar, Cavide Sonmez, MD, Ergun Bozdog, MSc, PhD, and Emin Sunbuloğlu, MSc, Fatih and Taksim, Istanbul, Turkey..... 530

In vivo blood metal ion levels in patients after total shoulder arthroplasty

Tobias Reiner, MD, Nina Bader, Benjamin Panzram, MD, Matthias Bühlhoff, MD, Georg Omlor, MD, PhD, Jan P. Kretzer, PhD, Patric Raiss, MD, PhD, and Felix Zeifang, MD, PhD, Heidelberg and Munich, Germany..... 539

Preoperative Patient-Reported Outcomes Measurement Information System (PROMIS) scores predict postoperative outcome in total shoulder arthroplasty patients

Raymond E. Chen, MD, M. Owen Papuga, PhD, Gregg T. Nicandri, MD, Richard J. Miller, MD, and Ilya Voloshin, MD, Rochester, NY, USA..... 547

Insertional anatomy of the anterior medial collateral ligament on the sublime tubercle of the elbow

Valentin Rausch, MD, Sebastian Wegmann, MD, Michael Hackl, MD, Tim Leschinger, MD, Wolfram F. Neiss, MD, Martin Scaal, PhD, Lars P. Müller, MD, PhD, and Kilian Wegmann, MD, PhD, Cologne, Germany..... 555

Bilateral shoulder proprioception deficit in unilateral anterior shoulder instability

Przemysław Lubiatowski, MD, PhD, DSc, Piotr Ogródowicz, MD, PhD, Marcin Wojtaszek, MD, and Leszek Romanowski, MD, PhD, DSc, Poznań, Poland..... 561

Influence of humeral abduction angle on axial rotation and contact area at the glenohumeral joint

Wataru Sahara, MD, PhD, Takaharu Yamazaki, PhD, Shoji Konda, PhD, Kazuomi Sugamoto, MD, PhD, and Hideki Yoshikawa, MD, PhD, Suita and Fukaya, Saitama, Japan..... 570

REVIEW ARTICLES

Interventions for displaced radial head fractures: network meta-analysis of randomized trials

Christopher Vannabouathong, MSc, Shakib Akhter, MSc, George S. Athwal, MD, FRCSC, Jaydeep Moro, MD, FRCSC, and Mohit Bhandari, MD, FRCSC, Burlington, Hamilton, and London, ON, Canada..... 578

Heterotopic ossification after total elbow arthroplasty: a systematic review

Eva Y. Liu, BHSc, Alexandra Hildebrand, BHSc, Nolan S. Horner, MD, George S. Athwal, MD, FRCSC, Moin Khan, MD, MSc, FRCSC, and Bashar Alolabi, MD, MSc, FRCSC, Hamilton and London, ON, Canada 587

Outcomes of hyaluronic acid injections for glenohumeral osteoarthritis: a systematic review and meta-analysis

Betty Zhang, BHSc, Aarabi Thayaparan, BHSc (c), Nolan Horner, MD, Asheesh Bedi, MD, Bashar Alolabi, MD, MSc, FRCSC, and Moin Khan, MD, MSc, FRCSC, Hamilton, ON, Canada; and Ann Arbor, MI, USA..... 596

Continued on Page 8A

CONTENTS

CONTINUED

WHAT I HAVE LEARNED

What I've learned

Bernard Morrey, MD, Rochester, MN, USA 607

ONLINE ARTICLES

Does altering projection of the fractured clavicle change treatment strategy?

Paul Hoogervorst, MD, Anand Appalsamy, MD, Diederik Meijer, MD, Job N. Doornberg, MD, PhD, Albert van Kampen, MD, PhD, and Gerjon Hannink, PhD, Nijmegen and Amsterdam, The Netherlands; and Adelaide, SA, Australia.e65

Dialysis dependence and modality impact complication rates after shoulder arthroplasty

Jourdan M. Cancienne, MD, Michelle E. Kew, MD, Matthew J. Deasey, MD, Stephen F. Brockmeier, MD, and Brian C. Werner, MD, Charlottesville, VA, USAe71

Tuberosity healing after reverse shoulder arthroplasty for complex proximal humeral fractures in elderly patients—does it improve outcomes? A systematic review and meta-analysis

Nimesh P. Jain, MS (Orth), Syed S. Mannan, MS, FRCS (Orth), Ramasubramanian Dharmarajan, FRCS(Orth), and Amar Rangan, FRCS (Orth), Carlisle, Cumbria, Middlesbrough, Oxford, and York, UKe78

CASE REPORT

Pelvis allograft with constrained total hip arthroplasty for shoulder reconstruction

Oren I. Feder, MD, Mostafa H. El Dafrawy, MD, and Carol D. Morris, MD, MS, New York, NY and Baltimore, MD, USAe92

READER SERVICES

Information for Readers 12A
Information for Authors 15A