Journal of **Pediatric Orthopaedics**

Contents

Sports Medicine

- Anterior Shoulder Forces in Professional and Little League Pitchers Arun J. Ramappa, Po-Hao Chen, Richard J. Hawkins, Tom Noonan, Tom Hackett, Michelle B. Sabick, Michael J. Decker, David Keeley, and Michael R. Torry
 - Arthroscopic Management of Osteochondritis Dissecans of the Capitellum: Mid-term Results in Adolescent Athletes Kristofer J. Jones, Brent B. Wiesel, Wudbhav N. Sankar, and Theodore J. Ganley
 - Fixation of Juvenile Osteochondritis Dissecans Lesions of the Knee Using Poly 96L/4D-lactide Copolymer Bioabsorbable Implants Ramin R. Tabaddor, Michael B. Banffy, Jason S. Andersen, Eric McFeely, Olabode Ogunwole, Lyle J. Micheli, and Mininder S. Kocher
 - 21 Effect of Intra-articular Pressurization Associated With Arthroscopy on the Immature Physis: Investigation in an Animal Model D. Nicole Deal, Jianjun Ma, Peter Apel, Vincent Novak, Cathy S. Carlson, Josh B. Parker, Erik J. Olson, G. Ryan Rieser, Thomas L. Smith, and Jeffrey S. Shilt



(continued next page)



Journal of Pediatric Orthopaedics (ISSN 0271-6798) is published eight times per year by Lippincott Williams & Wilkins, 16522 Hunters Green Parkway, Hagerstown, MD 21740-2116. Business offices are located at 530 Walnut Street, Philadelphia, PA 19106-3621. Periodicals postage paid at Hagerstown, MD, and at additional mailing offices. Copyright 2009 by Lippincott Williams & Wilkins.

Annual subscription rates: United States—\$429.00 Individual, \$1,111.00 Institution, \$207.00 In-training. Rest of World —\$542.00 Individual, \$1,145.00 Institution, \$209.00 In-training. Single copy rate \$143.00. All prices include a handling charge. Subscriptions outside of North America must add \$17.00 for airfreight delivery. United States residents of AL, CO, DC, FL, GA, HI, IA, ID, IN, KS, KY, LA, MD, MO, ND, NM, NV, PR, RI, SC, SD, UT, VT, WA, and WV add state sales tax. The GST tax of 7% must be added to all orders shipped to Canada (Lippincott Williams & Wilkins' GST Identification #895524239, Publications Mail Agreement #40052291). Subscription prices outside the United States must be prepaid. Prices subject to change without notice. Visit us online at

Individual and in-training subscription rates include print and access to the online version. Institutional rates are for print only; online subscriptions are available via Ovid. Institutions can choose to purchase a print and online subscription together for a discounted rate. Institutions that wish to purchase a print subscription, please contact Lippincott Williams & Wilkins, 16522 Hunters Green Parkway, Hagerstown, MD 21740-2116; phone: 800-638-3030 (outside the United States 301-223-2300); fax: 301-223-2400. Institutions that wish to purchase an online subscription or online with print, please contact the Ovid Regional Sales Office near you or visit www.ovid.com/site/index.jsp and select Contact and Locations.

Address for non-member subscription information, orders, or change of address: Lippincott Williams & Wilkins, P.O. Box 1580, Hagerstown, MD 21741-1580; phone: 800-638-3030 (outside the United States 301-223-2300; fax: 301-223-2400). In Japan, contact LWW Igaku-Shoin Ltd., 3-23-14 Hongo, Bunkyo-ku, Tokyo 113-0033; phone: 81-3-5689-5400; fax: 81-3-5689-5402. In Bangladesh, India, Nepal, Sri Lanka, and Pakistan, contact Globe Publications Pvt. B-13 3rd Floor, A Block, Shopping Complex, Naraina Vihar, Ring Road, New Delhi, 110028; phone: 91-11-579-3211; fax: 91-11-579-8876.

Website: www.pedorthopaedics.com

Postmaster: Send address changes to Journal of Pediatric Orthopaedics, P.O. Box 1550, Hagerstown, MD 21740.

Contents (continued)

On the Cover:

Hip/Femur

To the left is an anterior-posterior plain radiograph in a 28-month-old girl showing a bilateral RAD more than 2SD according to Tönnis graphs. The center is a coronal T1-weighted spin echo image in the same patient showing thick unossified chondroepiphyseal cartilage of the acetabular roof. And to the right is a radiograph of the pelvis 5 years later. From the article by Douira-Khomsi, et al

on p. 37 of this issue.

- Acetabular Cartilage and Labral Damage Observed During Surgical Hip Dislocation for Stable Slipped Capital Femoral Epiphysis

 Ernest L. Sink, Ira Zaltz, Travis Heare, and Michael Dayton
- Outcome of In Situ Pinning in Patients With Unstable Slipped Capital Femoral Epiphysis: Assessment of Risk Factors Associated With Avascular Necrosis
 Thomas Palocaren, Larry Holmes, Kenneth Rogers, and Shanmuga Jay Kumar
- 37 Magnetic Resonance Evaluation of Acetabular Residual Dysplasia in Developmental Dysplasia of the Hip: A Preliminary Study of 27 Patients
 Wièm Douira-Khomsi, Mahmoud Smida, Hela Louati, Lilia Ben Hassine, Sami Bouchoucha, Walid Saied, Mohamed-Fethi Ladeb, Maher Ben Ghachem, and Ibtissem Bellagha
- The Evaluation of Hip Muscles in Patients Treated With One-stage Combined Procedure for Unilateral Developmental Dysplasia of the Hip: Part II: Isokinetic Muscle Strength Evaluation

 Serdar Yılmaz, Halil Yalçın Yüksel, Ertuğrul Aksahin, Levent Çelebi, Murat Ersöz, Hasan Hilmi Muratlı, and Ali Biçimoğlu

Trauma

- Supracondylar Humerus Fracture in Children
 Paul D. Choi, Rojeh Melikian, and David L. Skaggs
- 57 Delayed Presentation of a Brachial Artery Pseudoaneurysm After a Supracondylar Humerus Fracture in a 6-year-old Boy: A Case Report Christopher Got, Tze-Woei Tan, Nikhil Thakur, Edward J. Marcaccio, Craig Eberson, and Ian Madom
- Ossification of the Proximal Humerus in Children With Residual Brachial Plexus Birth Palsy: A Magnetic Resonance Imaging Study Sylvan E. Clarke, Ross S. Chafetz, and Scott H. Kozin

Neuromuscular

- 67 Long-term Results of Lateral Band Translocation for the Correction of Swan Neck Deformity in Cerebral Palsy

 Marije de Bruin, Daphne C. van Vliet, Mark J. Smeulders, and Mick Kreulen
- Validity and Reliability of Physical Functioning Computer-adaptive Tests for Children With Cerebral Palsy
 Stephen M. Haley, Ross S. Chafetz, Feng Tian, Kathleen Montpetit, Kyle Watson,
 George Gorton, and M. J. Mulcahey

Contents (continued)

76 Complications of Intrathecal Baclofen Pump Therapy in Pediatric Patients
Andrzej Borowski, Aaron G. Littleton, Battugs Borkhuu, Ana Presedo, Suken Shah,
Kirk W. Dabney, Sharon Lyons, Maura McMannus, and Freeman Miller

Selected Topics

- 82 Plantar Pressures Following Ponseti and French Physiotherapy Methods for Clubfoot Kelly A. Jeans and Lori A. Karol
- 90 The Treatment of Vertebral and Chest Wall Deformities With Expandable Thoracoplasty and a Prosthetic Expandable Implant

 Jonathan R. Kamerlink, Itzhak Engel, Ajit Patwardhan, Antonio Valdevit, Gary Lowery, Marco Brayda-Bruno, Reinhard Zeller, and Thomas J. Errico
- 99 Letter to the Editor Simon P. Kelley and H. Kerr Graham



This journal is listed in Index Medicus/MEDLINE, Current Contents/Clinical Medicine, Scisearch, Biomedical Database, Excerpta Medica, BIOSIS, and PASCAL/CNRS.

Address for subscription information, orders, or change of address (except Japan, India, Bangladesh, Sri Lanka, Nepal and Pakistan): 16522 Hunters Green Parkway, Hagerstown, MD 21740-2116; phone 1-800-638-3030; fax 301-223-2400; in Maryland, call collect 301-223-2300. In Japan, contact LWW Igaku-Shoin Ltd., 3-23-14 Hongo, Bunkyo-ku, Tokyo 113-0033, Japan; phone: 81-3-5689-5400; fax: 81-3-5689-5402. In India, Bangladesh, Sri Lanka, Nepal and Pakistan, contact Globe Publication Pvt. Ltd. B-13, 3rd FL, A Block, Shopping Complex, Naraina Vihar, Ring Road, New Delhi 110028, India; phone: 91-11-579-3211; fax: 91-11-579-8876.

Instructions for Authors may be accessed on the journal's website at www.pedorthopaedics.com

The material contained in this journal was submitted as previously unpublished material, except in any instances in which credit is given to the source from which illustrative or tabular material was derived. Great care has been taken to maintain the accuracy of the information contained herein. However, the Editorial Staff and the Publisher cannot be held responsible for errors or for any consequences arising from the use of the information reported here.

When citing this journal, abbreviate as J Pediatr Orthop.

Permission to reproduce copies of articles for non-commercial use may be obtained from the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923 (978) 750-8400, FAX (978) 750-4470, www.copyright.com