

The Knee

VOLUME 26 ISSUE 5

CONTENTS

OCTOBER 2019

EDITORIAL

Editorial

C.B. Hing, O. Al Dadah

953

BASIC SCIENCE

Contralateral MRI scan can be used reliably for three-dimensional meniscus sizing – Retrospective analysis of 160 healthy menisci

S. Beeler, L. Vlachopoulos, L. Jud, R. Sutter, P. Frnstahl, S.F. Fucentese (Switzerland)

954

Risk analysis of tunnel collision in combined anterior cruciate ligament and anterolateral ligament reconstructions

K. Smeets, A. Van Haver, S. Van den Bempt, M. Verheyden, L. Bruckers, P. Verdonk, J. Truijen, J. Bellemans (Belgium)

962

The interrelationship between anterior cruciate ligament tibial footprint and anterolateral meniscal root insertions: Quantitative, morphological and positional analyses using three-dimensional computed tomography images

K. Tensho, T. Iwaasa, S. Koyama, K. Yoshida, H. Shimodaira, H. Horiuchi, H. Kato, N. Saito, N. Fukushima (Japan)

969

BIOMECHANICS & KINEMATICS

Test–retest reliability and discriminative ability of forward, medial and rotational single-leg hop tests

B. Dingenen, J. Truijen, J. Bellemans, A. Gokeler (Belgium, Germany, Luxembourg)

978

Age has a minimal effect on knee kinematics: A cross-sectional 3D/2D image-registration study of kneeling

C.R. Galvin, D.M. Perriman, J.T. Lynch, M.R. Pickering, P. Newman, P.N. Smith, J.M. Scarvell (Australia)

988

Biomechanical comparison of anterolateral ligament anatomical reconstruction with a semi-anatomical lateral extra-articular tenodesis. A cadaveric study

C. Jette, D. Gutierrez, S. Sastre, M. Llusa, A. Combalia (Spain)

1003

The effect of knee prosthesis design on tibiofemoral biomechanics during extension tasks following total knee arthroplasty

A. Beach, G. Regazzola, T. Neri, R. Verheul, D. Parker (Australia)

1010

Calcium phosphate cement and locked plate augmentation of distal femoral defects: A biomechanical analysis

M.R. DeBaun, J.C. Williams, C.G. Bennett, E.M. Pridgen, R.M. Tamurian, D.F. Amanatullah (United States of America)

1020

SOFT TISSUE

The impact of a preoperative information leaflet on expectation management, satisfaction and patient outcomes in patients undergoing knee arthroscopy

J.M. Bayram, G.M. Lawson, D.F. Hamilton (UK)

1026

ARTHRITIS & OSTEOTOMIES

Intra-articular and extra-articular platelet-rich plasma injections for knee osteoarthritis: A 26-week, single-arm, pilot feasibility study

R.W.S. Sit, R.W.K. Wu, S.W. Law, D.D. Zhang, B.H.K. Yip, A.K.K. Ip, D. Rabago, K.D. Reeves, S.Y.S. Wong (Hong Kong, USA)

1032

Lateral numbness in the lower leg: An underestimated complication following medial open-wedge high tibial osteotomy

K.-I. Kim, H.-S. Juh, G.B. Kim, S.H. Lee (Republic of Korea)

1041

Cartilage recovery in runners with and without knee osteoarthritis: A pilot study

J.-F. Esculier, M. Jarrett, N.M. Krowchuk, A. Rauscher, V. Wiggermann, J.E. Taunton, D.R. Wilson, A.A. Gatti, M.A. Hunt (Canada)

1049

Opposite cortical fractures in closed-wedge HTO: New classification and treatment algorithm

A. Dorofeev, A. Tylla, W.R. Drescher, R. Stangl (Germany)

1058

REHABILITATION & ORTHOTICS

Effects of a knee valgus unloader brace on medial femoral articular cartilage deformation following walking in varus-aligned individuals

S.J. Pfeiffer, J.A. Valentine, J.S. Goodwin, D.B. Nissman, T. Blackburn, B. Pietrosimone (United States of America)

1067

(continued on next page)

ARTHROPLASTY

- Different femoral origins of valgus deformity affect aspect ratios of resected distal femurs in total knee arthroplasty
X. Yin, D. Yang, Y. Zhou, H. Shao, Y. Huang, X. Huang (China) 1073
- Total knee arthroplasty with distal femoral replacement is associated with an important complication rate. A case series
M. Angers-Goulet, S. Pelet, E.L. Belzile, M. Bédard (Canada) 1080
- Improving the accuracy of tibial component placement during total knee replacement in varus knees with tibial bowing: A prospective randomised controlled study
D. Palanisami, C.P. Jagdishbhai, M. Manohar, P. Ramesh, R. Natesan, R. Shanmuganathan (India) 1088
- Complications associated with staged versus simultaneous bilateral total knee arthroplasty: An analysis of 7747 patients
S.S. Richardson, C.A. Kahlenberg, J.L. Blevins, S.M. Goodman, T.P. Sculco, M.P. Figgie, P.K. Sculco (USA) 1096
- Intra- and interobserver reliability and agreement in three-dimensional computed tomography measurements of component positions after total knee arthroplasty
K. Yoshino, S. Hagiwara, J. Nakamura, T. Tsukeoka, Y. Tsuneizumi, S. Ohtori (Japan) 1102
- Medium-term clinical results of unicompartmental knee arthroplasty for the treatment for spontaneous osteonecrosis of the knee with four to 15 years of follow-up
S. Fukuoka, K. Fukunaga, K. Taniura, T. Sasaki, K. Takaoka (Japan) 1111
- Conversion of cemented revision total knee prostheses to arthrodesis using custom-made arthrodesis modules that preserve the cemented stem anchorage in patients with long-established extensor mechanism insufficiency: A case series
F.S. Fröschen, M.J. Friedrich, T.M. Randau, S. Gravius, N. Gravius (Germany) 1117

TECHNICAL TIPS

- Application of assisted portal under anterior horn of lateral meniscus for the treatment of discoid meniscus injury
Z. Zhou, L. Xiao, C. He, Y. Zhang, C. Xue, S. Qiao, G. Zhang, Z. Wang (China) 1125
- Arthroscopic-assisted anatomical reconstruction of the posterolateral corner of the knee joint
J.H. Ahn, J.H. Wang, S.-Y. Lee, I.J. Rhyu, D.W. Suh, K.-M. Jang (South Korea) 1136

CASE REPORTS

- Implant fracture of the Regenerex® modular metal tibial component: A report of three cases
S. Rytter, F. Madsen, C.F. Jepsen, M. Stilling (Denmark) 1143
- Miliary tuberculosis with delayed-onset total knee arthroplasty *Mycobacteria tuberculosis* infection successfully treated with medical therapy alone: A case report and literature review
M. Barry, L. Akkielah, M.A. Askar, A.S. Bin Nasser (Saudi Arabia) 1152