

# The Kneee

VOLUME 26 ISSUE 4

CONTENTS

AUGUST 2019

## EDITORIAL

- Avoiding 'Fake News' in orthopaedic research – measuring the right outcomes and their interpretation  
T. Smith (United Kingdom) 811

## BIOMECHANICS & KINEMATICS

- The influence of knee joint geometry and alignment on the tibiofemoral load distribution: A computational study  
S. Van Rossom, M. Wesseling, C.R. Smith, D.G. Thelen, B. Vanwanseele, V.A. Dieter, I. Jonkers (Belgium, Switzerland, United States) 813

## ARTHRITIS & OSTEOTOMIES

- Intra-articular administration of peripheral blood stem cells with platelet-rich plasma regenerated articular cartilage and improved clinical outcomes for knee chondral lesions  
J.E. Monckeberg, C. Rafols, F. Apablaza, P. Gerhard, J. Rosales (Chile) 824
- Coronal tibiofemoral subluxation is a risk factor for postoperative overcorrection in high tibial osteotomy  
Y.T. Kim, J.Y. Choi, J.K. Lee, Y.M. Lee, J.I. Kim (South Korea) 832

## ARTHROPLASTY

- Genesis 1 posterior cruciate-retaining total knee arthroplasty with asymmetric tibial tray: An 18-to-26-year long-term clinical outcome study  
V.A. Georgaklis, T. Karachalios, K.G. Makridis, S.L. Badras, I.S. Palaiochorlidis, K.N. Malizos, L.S. Badras (Hellenic Republic) 838
- Clinical outcomes and patient satisfaction following revision of failed unicompartmental knee arthroplasty to total knee arthroplasty are as good as a primary total knee arthroplasty  
J.B.T. Lim, H.N. Pang, K.J.D. Tay, S.-I. Chia, N.N. Lo, S.J. Yeo (Republic of Singapore) 847
- Are patient-related pre-operative factors influencing return to work after total knee arthroplasty  
P. Lankinen, R. Laasik, M. Kivimäki, V. Aalto, M. Saltychev, J. Vahtera, K. Mäkelä (Finland, UK) 853
- Meaningful changes in the Short Form 12 physical and mental summary scores after total knee arthroplasty  
N.D. Clement, D. Weir, J. Holland, C. Gerrand, D.J. Deehan (UK) 861
- Comparison between navigated reported position and postoperative computed tomography to evaluate accuracy in a robotic navigation system in total knee arthroplasty  
F. Figueroa, E. Wakelin, J. Twiggs, B. Fritsch (Chile, Australia) 869
- Matched cohort analysis of peri-operative outcomes following total knee arthroplasty in patients with and without Parkinson's disease  
J.E. Kleiner, J.A. Gil, A.E.M. Eltorai, L.E. Rubin, A.H. Daniels (United States of America) 876
- The role of ultrasound-guided single-shot femoral and sciatic nerve blocks on pain management after total knee arthroplasty  
Y.-M. Kim, C. Kang, Y.-B. Joo, S.-H. Lee (South Korea) 881
- Midterm clinical and radiographic outcomes of 115 consecutive patient-specific unicompartmental knee arthroplasties  
A. Flury, J. Hasler, D. Dimitriou, A. Antoniadis, M. Finsterwald, N. Helmy (Switzerland) 889
- Mid- to long-term function and implant survival of ACL reconstruction and medial Oxford UKR  
J.A. Kennedy, J. Molloy, H.R. Mohammad, S.J. Mellon, C.A.F. Dodd, D.W. Murray (United Kingdom) 897
- Gradual change in knee extension following total knee arthroplasty using ultracongruent inserts  
S.-S. Lee, J.H. Kim, J.-W. Heo, Y.-W. Moon (South Korea) 905

## BASIC SCIENCE

- Stiffness post-total knee replacement: A proof of principle study investigating the effect of gene expression analysis of markers of fibrosis  
C.J. Mann, A.M. Bradley, E.R. Jones, I.R. McNamara, T.O. Smith, G.P. Riley (United Kingdom of Great Britain and Northern Ireland) 914

(continued on next page)

## **TECHNICAL TIPS**

Three-dimensional printed surgical templates for fresh cadaveric osteochondral allograft surgery with dimension verification by multivariate computed tomography analysis

E. Huotilainen, M. Salmi, J. Lindahl (Finland)

923

## **CASE REPORTS**

Twenty-year survivorship of a cemented mobile bearing Total Knee Arthroplasty

D.J. Milligan, S. O'Brien, E. Doran, N.E. Gallagher, D.E. Beverland (United Kingdom)

933

Ultrasonographic and radiographic findings of polyethylene component displacement with severe metallosis and metal-induced synovitis following total knee arthroplasty

S. Mallon, K. Bussis, Z. Beswick, W.T. North, S.B. Soliman (USA)

941

## **LETTERS TO EDITOR & CORRECTIONS**

Erratum to "Tibial insertion of the anterior cruciate ligament and anterior horn of the lateral meniscus share the lateral slope of the medial intercondylar ridge: A computed tomography study in a young, healthy population" [Knee 26 (2019) 612–618]

Y. Yonetani, M. Kusano, A. Tsujii, K. Kinugasa, M. Hamada, K. Shino (Japan)

951