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Poster No. 1883

Radiographic Analysis of the Lower Limbs Using the True Mechanical Axis in Healthy Individuals and in Patients with Osteoarthritis

Toshikazu Tanaka, Tomoyuki Matsumoto, Koji Takayama, Noriyuki Kanzaki, Shinya Hayashi, Shingo Hashimoto, Ryosuke Kuroda

Poster No. 1884

Errors in Computing A-P Tibial Contact Locations Using Single-Plane Fluoroscopy: An In Vitro Validation Study of Two Methods

Derrick Ross, Stephen Howell, Maury Hull

Poster No. 1885

Muscle Activities During Nordic Walking in Patients with Osteoarthritis of the Knee

Kurumi Ueno, Namiko Sugai, Kazuhiro Sasaki, Hideji Kura, Eiichi Uchiyama

PS2 Knee—Mechanics

Poster No. 1886

Side-to-Side Asymmetry During Recovery Following Anterior Cruciate Ligament Reconstruction

Robin M. Queen, Christopher T. Franck

Poster No. 1887

Knee Joint Stability and Muscle Coactivation: A Novel Hybrid Musculoskeletal Model Study in Gait

Masoud Sharifi, Saeed Shirazi-Adl, Hafedh Marouane

Poster No. 1888

The Association Between Subjective Feelings of Instability and Accelerations of the Knee Joint in Total Knee Arthroplasty During Walking

Tatsuya Soeno, Tomoharu Mochizuki, Osamu Tanifuji, Hiroki Hijikata, Takashi Sato, Satoshi Watanabe, Takayuki Murayama, Naoto Endo

Poster No. 1889

The Influence of a Functional Knee Brace and Orthopaedic Tights on Lower Extremity Mechanics During Land and Cut Maneuvers

Michael D. Harris, Ke Song, Bradley S. Davidson, Michael J. Decker, Kevin B. Shelburne

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The Effects of the General and Local Geometric Characteristics of Cartilage and Meniscus on Knee Mechanics

Qingen Meng, John Fisher, Ruth K. Wilcox

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Computational Muscle Force Prediction in Complexly Shaped Joints by Means of Instantaneous Screw Axes

Andreas Geier, Christoph Woernle, Rainer Bader

PS2 Knee—Computational Modeling

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Dynamic Simulation to Characterize the Influence of Surgical Stabilization on Patellar Tracking

John J. Elias, Molly K. Lalonde, Ali Alshehri, Andrew J. Copa, Andrew J. Cosgarea, Kerwyn C. Jones

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The Influence of Modeling Choices on the Predictive Capability of the Human Knee Joint Finite Element Models

Hamid Naghibi Beidokhti, Dennis Janssen, Sebastian van de Groes, Ton van den Boogaard, Nico Verdonsocht

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The Anteroposterior Axis of the Proximal Tibia Can Change After Tibial Resection in Total Knee Arthroplasty: Computer Simulation Using Asian Osteoarthritis Knees

Tetsuro Ushio, Hideki Mizu-Uchi, Ken Okazaki, Satoshi Hamai, Yukio Akasaki, Yuan Ma, Umito Kuwashima, Koji Murakami, Yasuharu Nakashima, Darryl D'Lima

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Effect of Statistical Shape Modelling Features of the Knee Joint on Alignment

Allison L. Clouthier, Colin R. Smith, Michael F. Vignos, Kevin J. Deluzio, Darryl G. Thelen, Michael J. Rainbow

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Determination of Muscle Force and Joint Loading in a Simulated Jump Landing Task Using AnyBody

Rodney Summers, Venkat Vaddamani, Tim Hewett, Vijay Goel

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Clinical Validation of Forward Dynamic Knee Kinematic Model to Predict TKA Kinematics

Xiangyi (Cheryl) Liu, Damon Servidio, Ronald Ehlert, Amanda Kirk, Walter Schmidt, Joseph Racanelli

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Biomechanical Effect of PL Tunnel Positioning in Double-Bundle Reconstruction—A 3D Computational Study

Nathan Varady, Willem A. Kernkamp, Jing-Sheng Li, Lianxin Wang, Hiroshi Koga, Peter D. Asnis, Guoan Li

Poster No. 1899

Comparing the Form and Volume of IPFP Between 30 and 0 Degrees of Knee Flexion in Normal Knees: Cross-Sectional Study Using Three-Dimensional Models

Yuriko Okita, Hiroyuki Oba, Masashi Morimoto, Yusuke Takefuji, Ryohei Miura, Kento Shirai, Kei Sato, Kazuya Ito, Kazuyoshi Gamada, Toshihiro Sadamatsu