

ANYBODY TECHNOLOGY



Contact: sales@anybodytech.com | +45 9635 4286

Selected AnyBody Publications

Hip

The functional role of hip muscles during gait in patients with increased femoral anteversion. De Pieri et al 2023: Gait Posture.

Association between global sagittal malalignment and increasing hip joint contact force, analyzed by a novel musculoskeletal modeling system. Miura et al 2021: PLoS One

Gait six month and one-year after computer assisted Femur First THR vs. conventional THR. Results of a patient- and observer-blinded randomized controlled trial. Weber et al 2016: Gait Posture

Optimal acetabular component orientation estimated using edge-loading and impingement risk in patients with metal-on-metal hip resurfacing arthroplasty. Mellon et al 2015: J. Biomech.

Knee

Biomechanical Effect of Coronal Alignment and Ligament Laxity in Total Knee Arthroplasty: A Simulation Study. Ro et al 2022: Front. Bioeng. Biotechnol.

Methodology to identify optimal subject-specific laxity tests to stretch individual parts of knee ligaments. Andersen & Pedersen 2022: Med. Eng. Phy.

Biomechanical Consequences of Tibial Insert Thickness after Total Knee Arthroplasty: A Musculoskeletal Simulation Study. Tzanetis et al 2021: Appl. Sci.

An anatomy-based dynamic model of total knee arthroplasty. Askari & Andersen 2021: Nonlinear Dyn.

Shoulder

Subject-Specific Computational Modeling of Acromioclavicular and Coracoclavicular Ligaments. Flores et al 2022: JSES

Effect of Rotator Cuff Deficiencies on Muscle Forces and Glenohumeral Contact Force After Anatomic Total Shoulder Arthroplasty Using Musculoskeletal Multibody Dynamics Simulation. Chen et al 2021: Front. Bioeng. Biotechnol.

Scapulothoracic rhythm affects glenohumeral joint force. Flores-Hernandez et al 2019: JSES

Ankle

Evaluating the validity of lightweight talar replacement designs: rational models and topologically optimized models. Kang et al. 2022: Biomater. Res.

Anatomic ankle implant can provide better tibiotalar joint kinematics and loading. Zhang et al 2022: Med. Eng. Phy.

Spine

Clinical Validation of a Novel Musculoskeletal Modeling Framework to Predict Postoperative Sagittal Alignment. Bayoglu et al 2023: Spine.

Association between sagittal alignment and loads at the adjacent segment in the fused spine: a combined clinical and musculoskeletal modeling study of 205 patients with adult spinal deformity. Ignasiak et al. 2022: Eur. Spine J.

Biomechanical Evaluation of the Effect of Minimally Invasive Spine Surgery Compared with Traditional Approaches in Lifting Tasks. Rasmussen et al. 2021: Front. Bioeng. Biotechnol.



Visit our website
www.anybodytech.com



Browse through the full publication list including more than **900 publications** and **100 webcasts** using the AnyBody Modeling System.

Selected AnyBody Webcasts

I. Lieberman, S. Shannon, K. Blank, agada Medical, P. Galibarov, AnyBody Technology, **Patient-specific Spine Analytics** (2023)

J. Menze, Univ. Bern. **Biomechanical Evaluation of Diagnostic Tests for Rotator Cuff Lesions** (2022)

D. De Massari, Stryker & P. Tzanetis, Univ. Twente. **The future of personalized orthopedics: Kinematic modeling to restore the premorbid knee functionality through robotic-assisted TKA** (2022)

K. Duquesne, Univ. Ghent. **The role of the anterior hip capsule in daily hip performance** (2022)

E. De Pieri, Univ. Basel Children's Hospital. **Modeling subject-specific femoral torsion for the analysis of lower-limb joint loads** (2021)

P. Tzanetis, Univ. Twente. **A model-based methodology to predict the biomechanical consequences of tibial insert thickness after total knee arthroplasty** (2021)

M. S. Andersen, Aalborg Univ. **A methodology to evaluate the effects of kinematic measurement uncertainties on knee ligament properties estimated from laxity measurements** (2021)

J. Van Houcke, OLV Hospital in Aalst. **Understanding the mechanical environment of the hip** (2020)

D. L. Dejtjar, Aalborg Univ. **Subject-specific lower limb modeling and evaluation with a force-dependent kinematics natural knee model** (2020)

C. Flores, Shiley Center for Orthopedic Research and Education at Scripps Clinic. **Scapulothoracic rhythm affects glenohumeral joint force** (2019)